R. Walter
TSC

U.S. Department
of Transportation
**National Highway
Traffic Safety
Administration**

DOT HS 806 711 JANUARY 1985
FINAL REPORT

AN INVESTIGATION OF A LOW-VARIABILITY TIRE TREADWEAR TEST PROCEDURE AND OF TREADWEAR ADJUSTMENT FOR AMBIENT TEMPERATURE. VOLUME II: APPENDICES A, B, C, D AND E, TEST DATA FILES

TECHNICAL REPORT STANDARD TITLE PAGE

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Report No. EFL-7928-4, "Determination of 100% Tire Tread Loss by Weight", has been prepared as a supplement to this report.

16. Abstract

This volume is the first part of a two-part appendix to the report on a low-variability tire treadwear procedure and treadwear adjustment for ambient temperature. This volume contains Appendices A through E, covering data sheets describing equipment, equipment calibration, laboratory records, test course records and a summary of the measurement data.

Volume I, 106 pages, contains the Program Description, Procedure, and Results.
Volume III, 502 pages, contains the data used in the statistical analysis effort, Analytical Files

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APPENDIX A

TIRE AND RIM INSPECTIONS

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UNIROYAL (GRP 1)					WEIGHT, GRAMS		(1)/CV%		
TEST			PRODUCTION		TIRE ONLY		TIRE & RIM		RIM
NR	SERIAL NO		WEEK	MOLD	EA	SET	EA	SET	NO
1111	APKA	BB11	014	15859	9813		18038		301
1112					9826	9781	18059	17993	302
1113					9738	0.46%	17931	0.36%	303
1114					9746		17945		304
1115					9721		17868		
1211					9740		17967		317
1212					9762	9744	18054	18017	318
1213					9799	0.54%	18054	0.24%	319
1214					9674		17993		320
1215					9763		18042		
1311					9738		17991		333
1312					9759	9772	17967	17986	334
1313					9807	0.30%	18010	0.11%	335
1314					9782		17972		336
1411					9779		18133		349
1412					9713	9722	17805	17873	350
1413					9700	0.40%	17826	0.99%	351
1414					9694		17728		352
3611					9763		17963		301
3612					9761	9771	18000	17973	302
3613					9815	0.32%	17947	0.12%	303
3614					9743		17976		304
3711					9762		18004		317
3712					9852	9765	18230	18046	318
3713					9762	0.71%	17998	0.69%	319
3714					9683		17952		320
3811					9700		17935		333
3812					9876	9774	18143	18011	334
3813					9778	0.77%	18056	0.60	335
3814					9741		17910		336
3911					9815		18174		349
3912					9900	9800	17998	17983	350
3913					9729	0.77%	17896	0.77%	368
3914					9755		17865		352
3915					9742		17877		

(1) SALE SWRI #1

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MICHELIN (GRDZ)					WEIGHT, GRAMS/CV. %				
TEST			PRODUCTION		TIRE ONLY		TIRE & RIM		RIM
NR	SERIAL	NO	WEEK	MOLD	EA	SET	EA	SET	NO
1121	B9A5	308X	412	20	9592		17834		305
1122		D3NX	493	14	9582	9571	17772	17800	306
1123		308X	452	12	9516	0.39	17743	0.29	307
1124		D3NX	493	18	9594		17852		308
1125		D3NX	493	19	9620		17816		
1221		308X	452	18	9494		17669		321
1222		D3NX	493	24	9701	9584	17966	17791	322
1223		D3NX	452	19	9495	1.10	17577	1.11	323
1224		D3NX	493	26	9646		17950		324
1225		D3NX	463	24	9731		17995		
1321		308X	452	13	9507		17714		337
1322		D3NX	493	19	9620	9518	17756	17755	338
1323		308X	452	15	9538	0.68	17741	0.22	339
1324		D3NX	463	26	9645		17808		340
1421		308X	452	20	9520		17669		353
1422		D3NX	493	40	9614	9616	17765	17746	354
1423		308X	452	26	9540	1.27	17674	0.55	355
1424		D3NX	463	14	9789		17876		356
3621		308X	452	28	9490		17759		305
3622		D3NX	463	14	9754	9463	17964	17692	367
3623		308X	452	26	9524	2.94	17759	1.36	307
3624		D3NX	483	15	9085		17347		308
3721		308X	452	19	9504		17681		321
3722		D3NX	483	40	9160	9460	17467	17671	322
3723		308X	452	18	9569	2.16	17640	1.00	323
3724		D3NX	463	13	9607		17896		324
3821			463	38	9721		17890		337
3822			483	14	9114	9564	17281	17716	338
3823			463	37	9752	3.16	17876	1.65	339
3824			463	17	9668		17815		340
3921			463	37	9737		17891		353
3922			463	21	9753	9761	17863	17874	354
3923			463	27	9810	0.34	17905	0.17	355
3924			463	24	9744		17837		356
3925			463	38	9809		17973		

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GOODYEAR	(GRP 3)				(1) WEIGHT, grams		/ Cv %		
TEST NR	SERIAL No		PRODUCTION WEEK	MOLD	TIRE ONLY - ea.	SET	TIRE & RIM - ea.	SET	RIM NR.
1131	MDKAVH0		383	122R	9655		17903		309
1132			024	128L	9625	9654	17719	17805	310
1133			513	402L	9645	0.29%	17749	0.48	311
1134			383	307L	9692		17847		312
1135			453	307L	9610		17744		
1231			393	123L	9716		17817		325
1232			513	401L	9693	9700	17911	17898	326
1233			513	122R	9669	0.25	17852	0.48	327
1234			403	203L	9721		18012		328
1235			483	303L	9590		17962		
1331			453	122L	9403		17606		341
1332			513	122L	9679	9690	17812	17802	342
1333			024	109R	9974	2.41	18039	1.01	343
1334			453	202L	9702		17752		344
1431			453	215L	9499		17699		357
1432			024	220L	9515	9574	17639	17759	358
1433			513	111L	9571	1.01	17802	0.64	359
1434			453	307L	9711		17897		360
3631			453	307R	9794		18025		309
3632			513	315L	9450	9665	17550	17815	310
3633			513	109R	9656	1.60	17743	1.20	311
3634			453	325L	9759		17940		312
3731			453	327L	9580		17722		325
3732			513	109L	9674	9603	17789	17785	326
3733			513	128L	9528	0.66	17744	0.40	327
3734			483	202L	9631		17553		328
3831			483	203L	9626		17875		341
3832			513	402R	9456	9581	17538	17698	342
3833			493	109L	9667	0.95	17731	0.80	343
3834			483	307R	9576		17649		344
3931			483	327L	9667		17899		375
3932			483	403R	9826	9710	18012	17971	358
3933			483	403L	9687	0.81	17955	0.31	359
3934			483	408L	9658		18018		360
3935			513	122L	9616		17724		
3936			024	220L	9439				

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BRIDGESTONE (GRP 4)					WEIGHT-grams, $\bar{X}$/CV%				
TEST NR	SERIAL No.		PRODUCTION WEEK	MOLD	TIRE ONLY grams	SET	TIRE & RIM grams	SET	RIM Nr
1141	EJP9JBH		043	8002	9545		17711		313
1142			303	8102	9565	9656	17688	17826	314
1143			303	8002	9753	1.21	17961	0.82	315
1144			053	8001	9762		17943		316
1145			303	8101	9754		17853		
1241			053	8002	9587		17806		329
1242			303	8001	9810	9686	17983	17858	330
1243			303	8002	9828	1.62	17934	0.70	331
1244			053	8102	9518		17708		332
1245			233	8101	9699		17962		
1341			123	8101	9779		18133		345
1342			233	8102	9713	9722	17805	17873	346
1343			303	8101	9700	0.40	17826	1.00	347
1344			223	8002	9694		17728		348
1441			223	8101	9735		18059		361
1442			233	8101	9720	9696	17976	17952	362
1443			233	8002	9606	0.62	17867	0.48	363
1444			233	8001	9721		17906		364
3641			133	8001	9753		17930		313
3642			303	8101	9726	9698	17892	17896	314
3643			223	8002	9653	0.51	17907	0.13	315
3644			063	8102	9660		17864		316
3741			233	8101	9682		17930		329
3742			313	8002	9697	9695	17944	17908	330
3743			253	8001	9629	0.60	17767	0.54	331
3744			223	8002	9770		17990		332
3841			273	8101	9686		17690		345
3842			303	8101	9759	9671	17727	17708	346
3843			233	8101	9672	0.81	17769	0.29	347
3844			063	8101	9567		17647		348
3941			253	8001	9664		17935		361
3942			253	8002	9693	9710	17998	17990	362
3943			303	8002	9738	0.39	18035	0.23	363
3944			063	8102	9743		17991		364
3945			303	8101	9780		17839		

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RIN INSPECTION (NEW)

	RUNOUT RADIAL OUT	RUNOUT RADIAL IN		LATERAL OUT	LATERAL IN		WEIGHT GRMS		
301	.043	.026		.054	.030		8014		
302	.046	.013		.042	.028		8017		
303	.028	.026		.026	.009		7994		
304	.026	.025		.028	.032		8044		
305	.041	.026		.034	.025		8096		
306	.055	.033		.040	.042		7987		
307	.036	.034		.027	.029		8093		
308	.032	.027		.026	.018		8083		
309	.022	.030		.021	.006		8109		
310	.032	.037		.021	.046		7957		
311	.032	.021		.028	.013		7982		
312	.038	.032		.023	.022		8038		
313	.051	.036		.052	.050		8035		
314	.044	.026		.034	.028		8022		
315	.056	.038		.039	.043		8098		
316	.022	.037		.031	.045		8074		
317	.031	.015		.020	.017		8070		
318	.037	.039		.022	.053		8093		
319	.026	.033		.023	.020		8095		
320	.045	.023		.032	.027		8114		
321	.039	.028		.031	.024		8027		
322	.030	.020		.024	.024		8093		
323	.030	.025		.031	.033		7925		
324	.033	.021		.028	.020		8170		
325	.037	.019		.032	.027		8004		
326	.035	.027		.033	.026		8022		
327	.040	.020		.026	.014		8069		
328	.028	.027		.028	.026		8104		
329	.043	.029		.045	.024		8123		
330	.022	.029		.020	.023		8075		
331	.044	.035		.023	.042		7990		
332	.053	.039		.031	.042		8046		
333	.038	.022		.020	.018		8078		
334	.051	.034		.034	.029		8063		
335	.036	.022		.033	.017		8046		

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RIM INSPECTION

	RUN OUT RADIAL OUT	RUN OUT RADIAL IN		LATERAL OUT	LATERAL IN		W/VALVE WEIGHT GRAMS		
336	.052	.050		.044	.053		8043		
337	.038	.024		.021	.011		8028		
338	.019	.028		.020	.028		7982		
339	.032	.033		.035	.035		8025		
340	.043	.041		.024	.031		8003		
341	.030	.032		.031	.018		8089		
342	.029	.023		.017	.033		7976		
343	.017	.033		.016	.038		7921		
344	.034	.027		.021	.034		7939		
345	.034	.046		.021	.054		7844		
346	.037	.043		.041	.031		7852		
347	.023	.046		.011	.040		7938		
348	.027	.026		.016	.034		7924		
349	.030	.040		.020	.029		8164		
350	.032	.033		.022	.044		7922		
351	.036	.027		.017	.018		5174		
352	.045	.036		.035	.043		7846		
353	.038	.020		.047	.014		7970		
354	.025	.045		.022	.050		8006		
355	.034	.039		.030	.029		7945		
356	.057	.024		.016	.020		7920		
357	.021	.053		.025	.091		7988		
358	.038	.045		.024	.030		7975		
359	.024	.019		.013	.033		8121		
360	.046	.016		.030	.028		8167		
361	.043	.029		.026	.033		8144		
362	.036	.029		.022	.020		8178		
363	.066	.054		.035	.043		8020		
364	.051	.042		.035	.030		7971		

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RIM INSPECTION

RIM#	RUNOUT RADIAL OUT	RUNOUT RADIAL IN		LATERAL OUT	LATERAL IN		W/VALVE WEIGHT GRAMS		
365	.031	.046		.024	.019		7994		
366	.030	.044		.016	.027		8024		
367	.030	.024		.017	.014		8022		
368	.032	.032		.022	.026		7989		
369	.025	.014		.029	.032		8136		
370	.024	.027		.033	.048		8088		
371	.027	.040		.033	.042		8082		
372	.027	.012		.037	.039		8160		
373	.022	.064		.054	.029		8081		
374	.036	.031		.027	.043		8038		
375	.068	.059		.032	.047		7978		
376	.029	.032		.017	.037		8062		

NOTES ON RIM INSPECTION. ~ WEIGHTS
64 RIMS ASSIGNED TO TEST; 12 SPARES.
WHEN N is 64
Mean weight is 8027 grams σ = 78.36
Maximum - 8178 grams, 1.93 σ from mean (362)
Minimum - 7844 grams, 2.34 σ from mean (345)
Median is 8011 grams, 0.204 σ from mean
Range is 334 grams, 4.24 σ wide.

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TIRE #	Weight	Rim #	Weight	MOUNTED TIRE & RIM WEIGHT
3611	9769	2A460301	8010	17968
12	9764	302	8012	18000
13	9819	303	7990	17947
14	9749	304	8040	17976
3621	9487	305	8093	17759
22	9757	367	8022	17904
23	9519	307	8088	17759
24	9088	308	8081	17347
3631	9798	309	8108	18028
32	9453	310	7955	17550
33	9661	311	7980	17743
34	9760	312	8037	17940
3641	9753	313	8033	17920
42	9727	314	8021	17892
43	9657	315	8096	17907
44	9659	316	8072	17864
3711	9767	317	8068	18004
12	9858	318	8091	18230
13	9770	319	8093	17998
14	9696	320	8112	17952
3721	9501	321	8025	17681
22	9165	322	8091	17467
23	9569	323	7923	17640
24	9620	324	8167	17896
3731	9584	325	8002	17222
32	9681	326	8020	17789
33	9534	327	8067	17744
34	9650	328	8103	17883
3741	9686	329	8122	17930
42	9703	330	8073	17944
43	9636	331	7989	17767
44	9789	332	8045	17990

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PHASE III

TIRE #	WEIGHT	RIM #	WEIGHT		MOUNTED TIRE+RIM WEIGHT				
3811	9706	2A460333	8076		17935				
12	9883	334	8062		18143				
13	9788	335	8045		18056				
14	9753	336	8042		17910				
3821	9726	337	8027		17890				
22	9119	338	7981		17281				
23	9759	339	8023		17876				
24	9681	340	8000		17815				
3831	9633	341	8087		17875				
32	9459	342	7971		17538				
33	9676	343	7916		17731				
34	9594	344	7936		17649				
3841	9686	345	7841		17690				
42	9766	346	7847		17727				
43	9628	347	7935		17769				
44	9581	348	7922		17647				
3911	9829	349	8161		18174				
12	9908	350	7918		17998				
13	9737	368	7989		17896				
14	9760	352	7843		17865				
3921	9742	353	7966		17891				
22	9759	354	8001		17863				
23	9818	355	7941		17905				
24	9761	356	7916		17837				
3931	9673	375	7918		17899				
32	9835	358	7971		18012				
33	9698	359	8117		17955				
34	9673	360	8161		18018				
3941	9665	361	8139		17935				
42	9697	362	8173		17998				
43	9749	363	8015		18035				
44	9758	364	7966		17991				

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TIRE #	OUTER			INNER					
3611	2½ @ 1	½ @ 6		½ @ 9	1 @ 6				
3612	1¾ @ 1	¼ @ 6	¾ @ 9	½ @ 3	1½ @ 6	¾ @ 9			
3613	1¼ @ 9			1 @ 8					
3614	2½ @ 12			1½ @ 1					
3621	¾ @ 4			2½ @ 12	½ @ 4				
3622	1 @ 6	¼ @ 12		½ @ 9					
3623	1½ @ 5			½ @ 12	½ @ 3				
3624	¾ @ 3	½ @ 8		1¾ @ 5	½ @ 9				
3631	—	—	—	1½ @ 4	¼ @ 9				
3632	½ @ 4	1¼ @ 11		¾ @ 3					
3633	½ @ 12			½ @ 10					
3634	½ @ 6	1 @ 11		½ @ 6	½ @ 9				
3641	—	—	—	1¾ @ 3	½ @ 7				
3642	2¼ @ 2	¼ @ 6		—	—				
3643	2 @ 2			¾ @ 4	¼ @ 10				
3644	1¼ @ 2			¾ @ 4					
3711	1½ @ 12	¾ @ 4	¼ @ 11	½ @ 5	½ @ 9				
3712	½ @ 1	1 @ 5	2½ @ 11	2¼ @ 3	1 @ 9				
3713	—	—	—	1½ @ 8	½ @ 1				
3714	1¼ @ 1	½ @ 6		¾ @ 6					
3721	1½ @ 3			1¼ @ 11					
3722	2 @ 3	¼ @ 7		2 @ 3	½ @ 5				
3723	1 @ 3			1¼ @ 2	¼ @ 6				
3724	¾ @ 4			½ @ 6					
3731	½ @ 5			1 @ 1	½ @ 5				
3732	—	—	—	½ @ 11					
3733	¾ @ 9			1½ @ 6	¼ @ 9				
3734	1¼ @ 12			1 @ 3					
3741	1 @ 12			¾ @ 1					
3742	1½ @ 2	½ @ 6		1½ @ 4					
3743	2 @ 4			½ @ 2					
3744	1½ @ 3	½ @ 6		¾ @ 2					

Date:

(SwR 17) Rev 6/75

Signature:

SOUTHWEST RESEARCH IN. JTE
San Antonio, Texas 78284

Page:

Project:

Tire #	OUTER			INNER		
3811	3/4 @ 2			1/2 @ 1	1 3/4 @ 9	
3812	1 1/2 @ 12	1/4 @ 6		1/4 @ 12	1 3/4 @ 5	3/4 @ 9
3813	2 1/2 @ 2	1/2 @ 8		3/4 @ 1	1 1/2 @ 9	
3814	3/4 @ 12			3/4 @ 10		
3821	1/2 @ 4	1/4 @ 7		1 @ 6	1/4 @ 10	
3822	2 1/4 @ 3	1/2 @ 7		1 @ 3		
3823	1/2 @ 5			—	—	—
3824	3/4 @ 4			1 1/2 @ 7		
3831	1/2 @ 1	1 1/2 @ 6		1/2 @ 3	1/2 @ 5	
3832	1/2 @ 8			3/4 @ 9		
3833	1/4 @ 2	3/4 @ 7		1 @ 2	1/2 @ 6	
3834	3/4 @ 6			1 @ 4		
3841	1 3/4 @ 8			1 @ 2	1/2 @ 6	
3842	1/2 @ 7			1 @ 2	1/4 @ 4	
3843	1 1/4 @ 11			1 1/4 @ 3	1/2 @ 7	
3844	1 1/4 @ 9			1 1/4 @ 12		
3911	2 @ 12	1/4 @ 6		1 1/4 @ 4	1/2 @ 9	
3912	1/2 @ 2	1 1/2 @ 10	(1/4 @ 7)	1/4 @ 1	1/2 @ 10	(1/2 @ 7)
3913	1/2 @ 2	1 3/4 @ 10		3/4 @ 3	1/2 @ 7	
3914	3/4 @ 3	3 @ 9		1 1/2 @ 3	1 @ 7	(1/2 @ 12)
3921	2 1/2 @ 7	1/2 @ 12		3/4 @ 9		
3922	1/2 @ 6			1/2 @ 5		
3923	1 1/2 @ 7			1 @ 7		
3924	1 1/4 @ 7			1 1/2 @ 6	1/4 @ 9	
3931	1/2 @ 3	2 1/2 @ 8		2 1/4 @ 1	3/4 @ 6	1/2 @ 11
3932	2 1/2 @ 6			1 3/4 @ 4	1/2 @ 5	
3933	1 1/4 @ 12	1/2 @ 6		3/4 @ 12		
3934	1/4 @ 4	1 3/4 @ 9		1 1/2 @ 3	1/2 @ 6	
3941	1 @ 8			3/4 @ 7		
3942	1 @ 6			1/2 @ 1	1/2 @ 6	
3943	3/4 @ 3	2 1/2 @ 8	1 @ 9	1 1/2 @ 2	1 @ 6	1/4 @ 11
3944	1/2 @ 2	3 @ 7		2 3/4 @ 3	1 @ 6	

Date:

Signature:

APPENDIX B

CONVOY PREPARATION

Calibration of Vehicles

- Speed
- Load

Mechanical Data

- Alignments
- Wheel Loads

Instrument Calibration Data

Driver Codes and Assignments

PHASE I

4S0001	4S0002
4S0003	4S0004
-1401	-1405
-1402	-1406
-1403	-1407
-1404	-1408

SwRI 08-7928-001 For US/DOT NHTSA

Date 2/16/84

P.O. DTNH22-84-C-07106

Convoy R101 Test 4S0001 Schedule Go 2/16/84

Car	Vehicle	Test Tire: Sp Code/Tire	Test Tire: Inventory	Test Condition: Calibration Summary
1	1401 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM,FM H400565 Test Rim Size 14 X 6	7928/11 P195/75R14SL RADIAL 101X	A X1111 B X1112 C X1113 D X1114 E _____	Speed 55 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1034 lbs RF 1041 lbs LR 1041 lbs RR 1032 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			
2	1402 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 400531 Test Rim Size 14 X 6	7928/12 P195/75R14SL RADIAL 101M	A M1121 B M1122 C M1123 D M1124 E _____	Speed 55 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1041 lbs RF 1032 lbs LR 1036 lbs RR 1041 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			
3	1403 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 435768 Test Rim Size 14 X 6	7928/13 P195/75R14SL RADIAL 101G	A G1131 B G1132 C G1133 D G1134 E _____	Speed 57 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1040 lbs RF 1033 lbs LR 1031 lbs RR 1033 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			
4	1404 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 400533 Test Rim Size 14 X 6	7928/14 P195/75R14SL RADIAL 101B	A B1141 B B1142 C B1143 D B1144 E _____	Speed 56 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1033 lbs RF 1040 lbs LR 1041 lbs RR 1033 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			

Accepted Test Ready

US/DOT NHTSA SOUTHWEST RESEARCH INSTITUTE

UTQG FACILITY SAN ANGELO Test Go / / Test Complete / /

SwRI 08-7928-001 For US/DOT NHTSA

Date 2/16/84

P.O. DTNH22-84-C-07106

Convoy R102 Test 4S0003 Schedule Go 2/16/84

Car	Vehicle	Test Tire: Sp Code/Tire	Test Tire: Inventory	Test Condition: Calibration Summary
1	1401 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM,FM H400565 Test Rim Size 14 X 6	7928/31 P195/75R14SL RADIAL 102X	A X1311 B X1312 C X1313 D X1314 E _____	Speed 55 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1034 lbs RF 1041 lbs LR 1041 lbs RR 1032 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			
2	1402 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 400531 Test Rim Size 14 X 6	7928/32 P195/75R14SL RADIAL 102M	A M1321 B M1322 C M1323 D M1324 E _____	Speed 55 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1041 lbs RF 1032 lbs LR 1036 lbs RR 1041 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			
3	1403 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 435768 Test Rim Size 14 X 6	7928/33 P195/75R14SL RADIAL 102G	A G1331 B G1332 C G1333 D G1334 E _____	Speed 57 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1040 lbs RF 1033 lbs LR 1031 lbs RR 1033 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			
4	1404 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 400533 Test Rim Size 14 X 6	7928/34 P195/75R14SL RADIAL 102S	A B1341 B B1342 C B1343 D B1344 E _____	Speed 56 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1033 lbs RF 1040 lbs LR 1041 lbs RR 1033 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			

Accepted Test Ready

US/DOT NHTSA SOUTHWEST RESEARCH INSTITUTE

UTQG FACILITY SAN ANGELO Test Go / / Test Complete / /

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	24	25	24
40	39	40	39
45	45	45	44
50	51	50	50
55	55	55	54

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195x75xR14
Veh. No. 1401 Date 9 FEB 84
Driver LAKE Recorder COUCH
Tach No. 75-520 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 147176
Dashometer Miles 6683
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

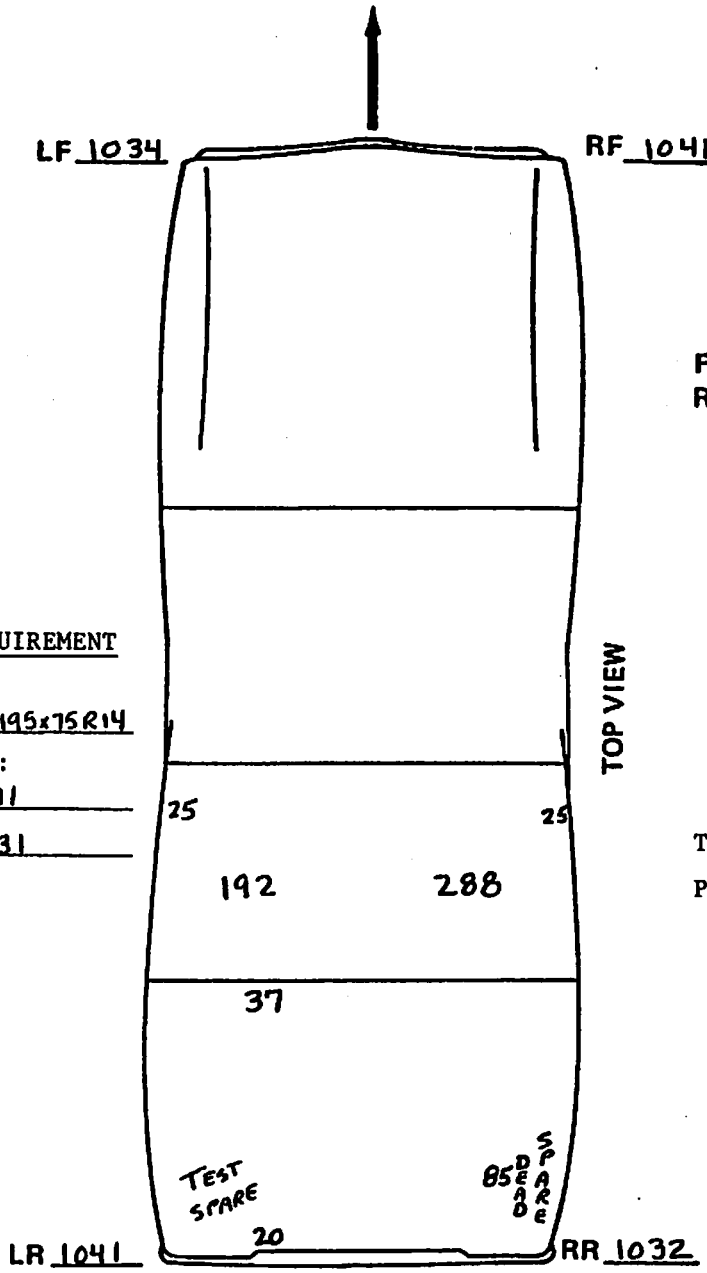
Test 450001/450003

Ref. Project 08-7928-001

C. G. Y-L
SOUTHWEST RESEARCH INSTITUTE

9 FEB 84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS 2075
REARS 2073
TOTAL 4148

LOAD REQUIREMENT

TIRE SIZE P195x75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 450001

PROJ. NO. 08-7928-001

VEHICLE LOAD

CAR NO. 1401

W/FULL TANK/190 LB. DRIVER

FEB 15, 1984

PERMANENT BALLAST

TRIM WEIGHT

TOOL KIT (OR 25-LB TRIM)

EMERGENCY KIT

X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	23	23	24
40	39	39	39
45	45	45	45
50	50	50	50
55	55	54	55

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195x75R14
Veh. No. 1402 Date 9 FEB 84
Driver LAKE Recorder COVEN
Tach No. 76736 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 50756
Dashometer Miles 2992
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

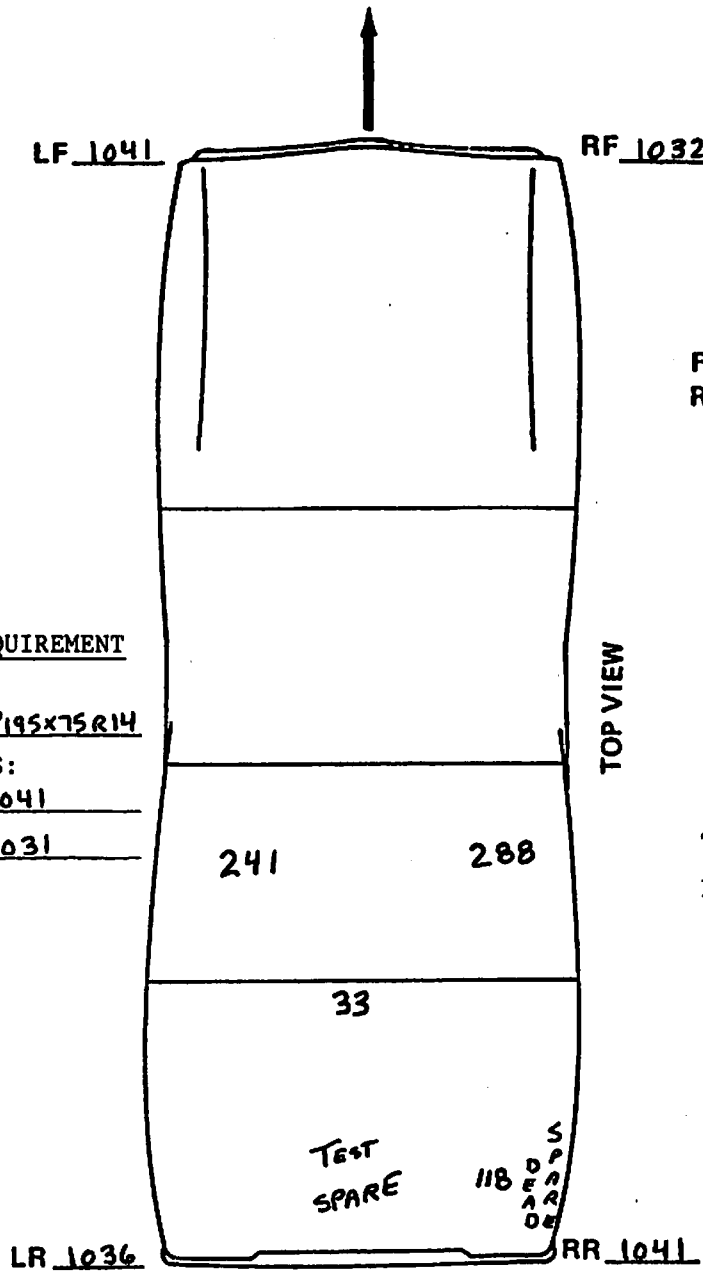
Test 450001/450003

Ref. Project 08-7928-001

C. L. Yoh
SOUTHWEST RESEARCH INSTITUTE

9 FEB 84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS 2073
REARS 2077
TOTAL 4150

LOAD REQUIREMENT

TIRE SIZE P195x75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 450001

PROJ. NO. 08-7928-001

VEHICLE LOAD

CAR NO. 1402
w/FULL TANK/190 LB. DRIVER
FEB 16, 1984

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction.
   Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	27	25	25
40	41	39	39
45	48	45	43
50	51	49	48
55	57	54	54

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195/75R14
Veh. No. 1403 Date 9 FEB 84
Driver LAKE Recorder COUCH
Tach No. 378 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 215346
Dashometer Miles
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

   Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

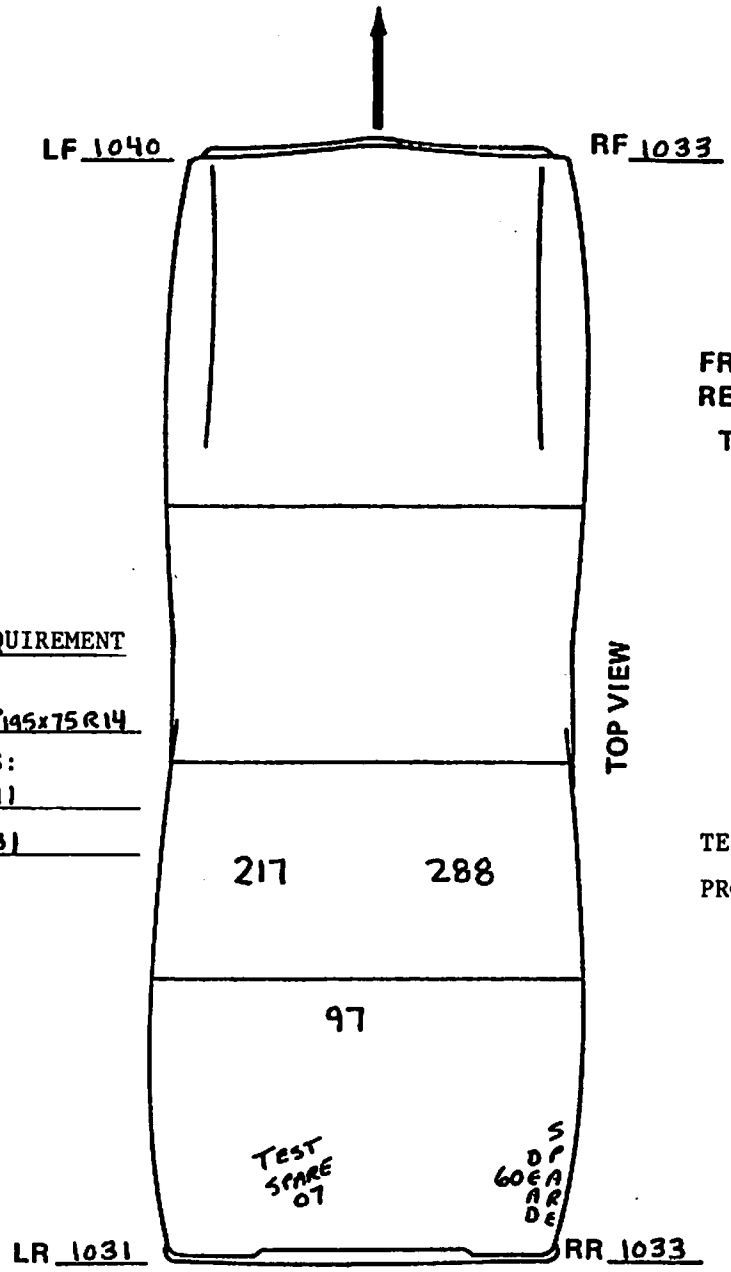
Test 450001/450003

Ref. Project 08-7928-001

C. L. Yoh
SOUTHWEST RESEARCH INSTITUTE

9 FEB 84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS 2073
REARS 2064
TOTAL 4137

TOP VIEW

LOAD REQUIREMENT

TIRE SIZE P195x75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 4S0001
PROJ. NO. 08-7928-001

VEHICLE LOAD

CAR NO. 1403
W/FULL TANK/190 LB DRIVER
FEB. 15, 1984

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195x75xR14
Veh. No. 1404 Date 9 FEB 84
Driver LAKE Recorder COUCH
Tach No. 74845 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 163062
Dashometer Miles 1575
(at start of procedure)

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	28	28	25
40	43	42	40
45	48	47	45
50	53	52	50
55	56	57	56

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

Test 45000L/45000S

Ref. Project 08-7928-00L

C. W. Yoder
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9 FEB 84
DATE

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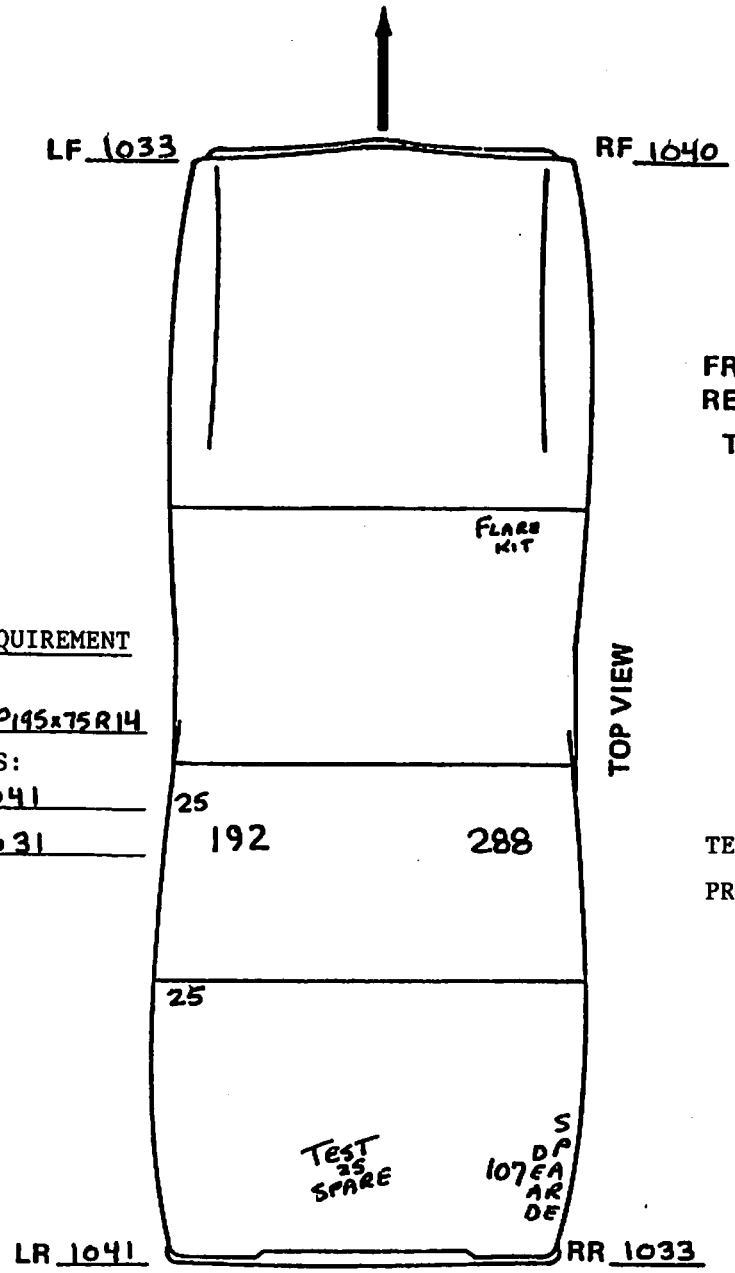


FRONTS 2073
REARS 2074
TOTAL 4147

LOAD REQUIREMENT

TIRE SIZE P195x75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 4S0001
PROJ. NO. 08-7928-001

VEHICLE LOAD

CAR NO. 1404
w/FULL TANK/DRIVER WT 190
FEB 16, 1984

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

SwRI 09-7928-001 For US/DOT NHTSA

Date 2/16/84

P.O. DTNH22-84-C-07106

Convoy R201 Test 450002 Schedule Go 2/16/84

Car	Vehicle	Test Tire: Sp Code/Tire	Test Tire: Inventory	Test Condition: Calibration Summary
1	1405 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM,FM 43:923 Test Rim Size 14 X 6	7928/21 P195/75R14SL RADIAL 201X	A X1211 B X1212 C X1213 D X1214 E _____	Speed 54 mph Indicated E 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1041 lbs RF 1035 lbs LR 1033 lbs RR 1041 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			
2	1406 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 433790 Test Rim Size 14 X 6	7928/22 P195/75R14SL RADIAL 201M	A M1221 B M1222 C M1223 D M1224 E _____	Speed 55 mph Indicated E 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1039 lbs RF 1033 lbs LR 1032 lbs RR 1041 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			
3	1407 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 416123 Test Rim Size 14 X 6	7928/23 P195/75R14SL RADIAL 201G	A G1231 B G1232 C G1233 D G1234 E _____	Speed 55 mph Indicated E 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1039 lbs RF 1033 lbs LR 1039 lbs RR 1039 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			
4	1408 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 400432 Test Rim Size 14 X 6	7928/24 P195/75R14SL RADIAL 201B	A B1241 B B1242 C B1243 D B1244 E _____	Speed 53 mph Indicated E 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1039 lbs RF 1032 lbs LR 1041 lbs RR 1039 lbs
	Start Alignment Checked ___ Car Ready ___ __/__/__			

Accepted Test Ready

US/DOT NHTSA SOUTHWEST RESEARCH INSTITUTE

UTQG FACILITY SAN ANGELO Test Go / / Test Complete / /

SwRI 08-7928-001 For US/DOT NHTSA

Date 2/16/84

P.O. DTNH22-84-C-07106

Convoy R202 Test 450004 Schedule Go 2/16/84

Car	Vehicle	Test Tire: Sp Code/Tire	Test Tire: Inventory	Test Condition: Calibration Summary
1	1405 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM,FM 433925 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/41 P195/75R14SL RADIAL 202X	A X1411 B X1412 C X1413 D X1414 E _____	Speed 54 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1041 lbs RF 1035 lbs LR 1033 lbs RR 1041 lbs __/__/__
2	1406 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 433790 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/42 P195/75R14SL RADIAL 202M	A M1421 B M1422 C M1423 D M1424 E _____	Speed 55 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1039 lbs RF 1033 lbs LR 1032 lbs RR 1041 lbs __/__/__
3	1407 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 416123 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/43 P195/75R14SL RADIAL 202G	A G1431 B G1432 C G1433 D G1434 E _____	Speed 55 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1039 lbs RF 1033 lbs LR 1039 lbs RR 1039 lbs __/__/__
4	1408 JA '84 REGAL 1G4AJ47AXEH 2drCpe 3.8L V6 AT,AC,PS,PB,AM 400432 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/44 P195/75R14SL RADIAL 202B	A B1441 B B1442 C B1443 D B1444 E _____	Speed 53 mph Indicated @ 55 mph Infl.psi Max 26 Test 18 Load Spec.lbs 1041/1031 LF 1039 lbs RF 1032 lbs LR 1041 lbs RR 1039 lbs __/__/__

Accepted Test Ready

US/DOT NHTSA SOUTHWEST RESEARCH INSTITUTE

UTQG FACILITY SAN ANGELO Test Go / / Test Complete / /

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	25	25
40	40	40	40
45	45	45	46
50	50	50	51
55	54	55	56

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195 x 75 x R14
Veh. No. 1405 Date FEB 9, 1984
Driver LAKE Recorder COUCH
Tach No. 77-180 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 110240
Dashometer Miles 5680
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

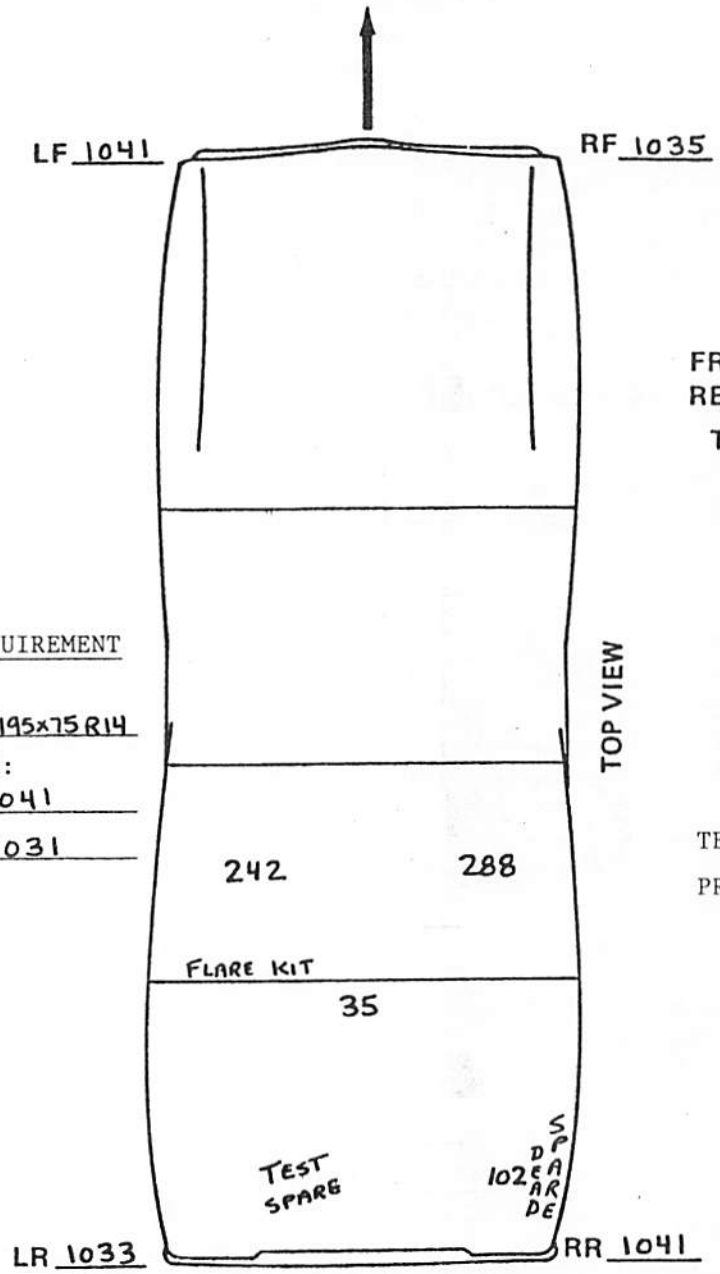
Test 450002/450004

Ref. Project 08-7928-001

C. W. Lake
SOUTHWEST RESEARCH INSTITUTE

9 FEB 84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS 2076
REARS 2074
TOTAL 4150

TOP VIEW

LOAD REQUIREMENT

TIRE SIZE P195x75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 450002
PROJ. NO. 08-7928-001

VEHICLE LOAD

CAR NO. 1405
w/FULL TANK/190 LB DRIVER
FEB 16, 1984

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction.
   Internal Cal @ 32 ✓ ; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	25	25
40	40	40	40
45	45	45	46
50	49	50	50
55	55	55	56

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195x75 R14
Veh. No. 1406 Date 9 FEB 84
Driver LAKE Recorder COUCH
Tach No. 63-996 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 181107
Dashometer Miles 3198
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

   Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

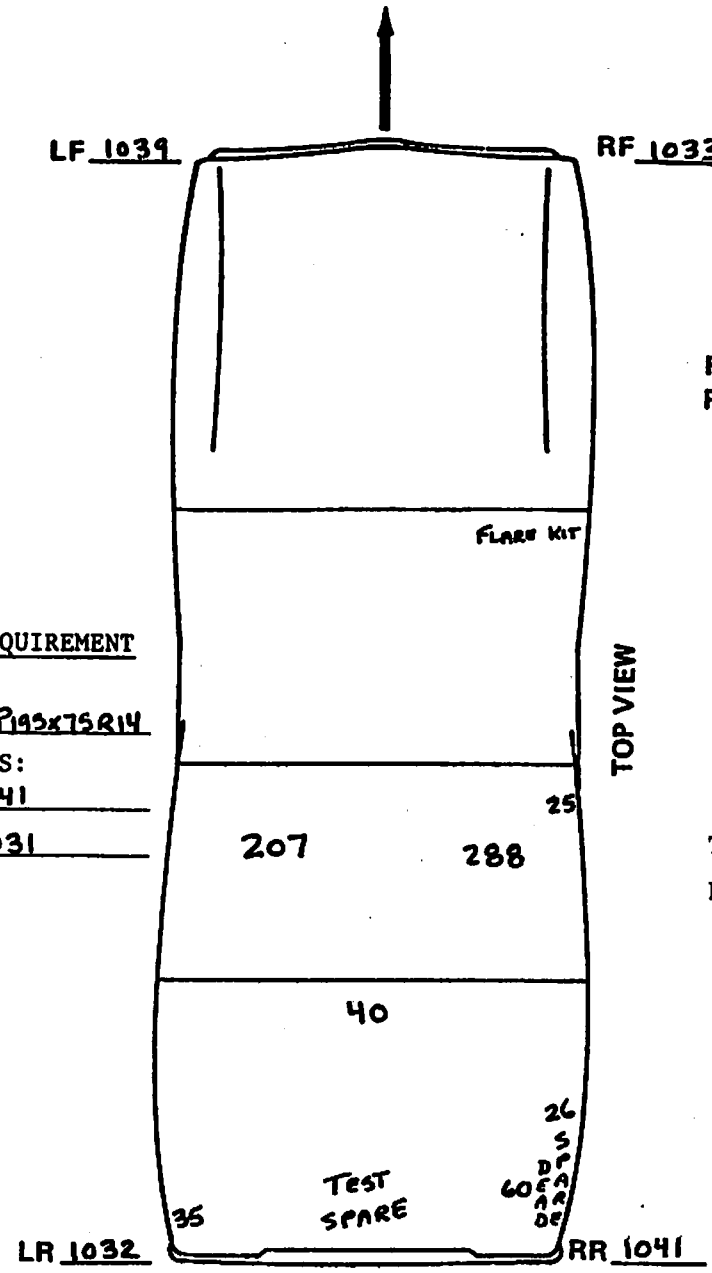
Test 450002/450004

Ref. Project 08-7928-001

C. W. Lake
SOUTHWEST RESEARCH INSTITUTE

9 FEB 84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS 2072
REARS 2073
TOTAL 4145

LOAD REQUIREMENT

TIRE SIZE P195x75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 45000 2
PROJ. NO. 08-7928-001

VEHICLE LOAD

CAR NO. 1406
W/ FULL TANK / 190 LB. DRIVER
FEB. 16, 1984

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	25	25
40	40	40	40
45	45	45	46
50	50	50	51
55	54	55	56

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195 x 75 x R14
Veh. No. 1405 Date FEB 9, 1984
Driver LAKE Recorder COUCH
Tach No. 77-180 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 110240
Dashometer Miles 5680
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

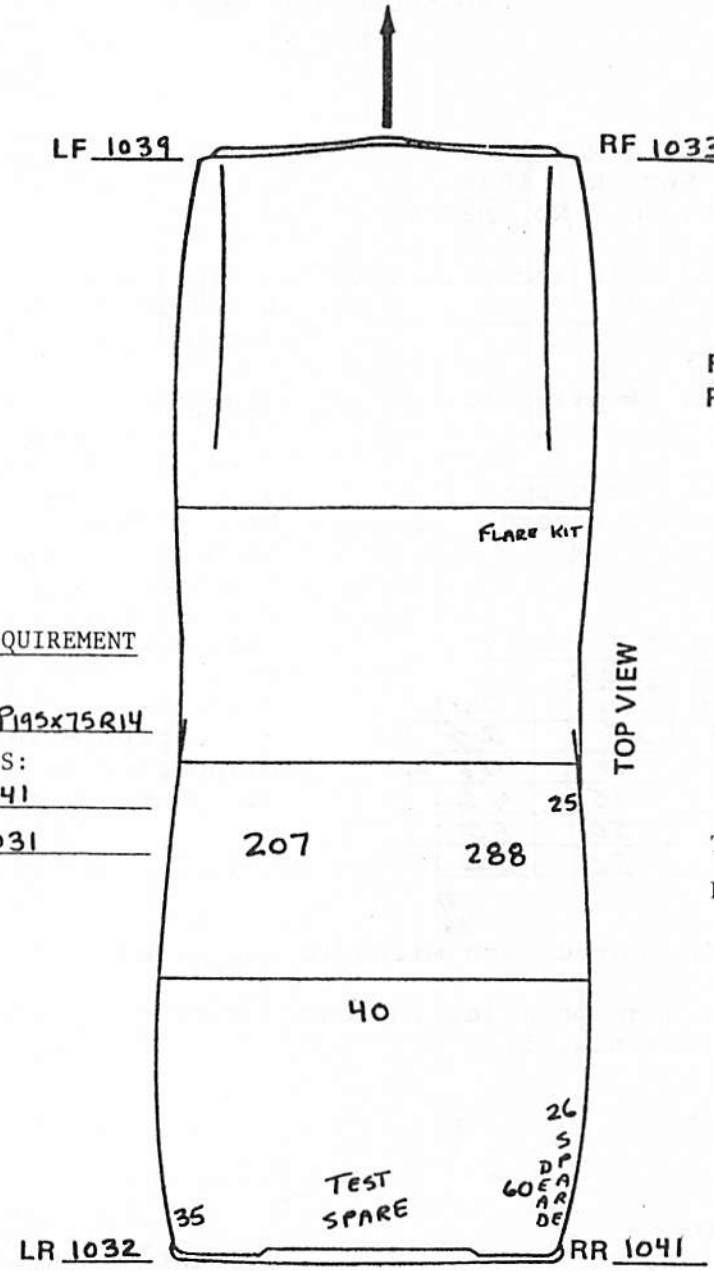
Test 450002/450004

Ref. Project 08-7928-001

C. W. Zak
SOUTHWEST RESEARCH INSTITUTE

9 FEB 84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS 2072
REARS 2073
TOTAL 4145

LOAD REQUIREMENT

TIRE SIZE P195x75R14

WHEEL LOADS:

MAX 1041

MIN 1031

TEST NO. 45000 2

PROJ. NO. 08-7928-001

VEHICLE LOAD

CAR NO. 1406

W/ FULL TANK / 190 LB. DRIVER

FEB. 16, 1984

PERMANENT BALLAST

TRIM WEIGHT

TOOL KIT (OR 25-LB TRIM)

EMERGENCY KIT

X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	27	24
40	40	41	39
45	45	47	45
50	50	51	50
55	55	57	55

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195x75R14
Veh. No. 1407 Date 15 FEB 84
Driver LAKE Recorder LAKE
Tach No. 51593 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 81586
Dashometer Miles 4078
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

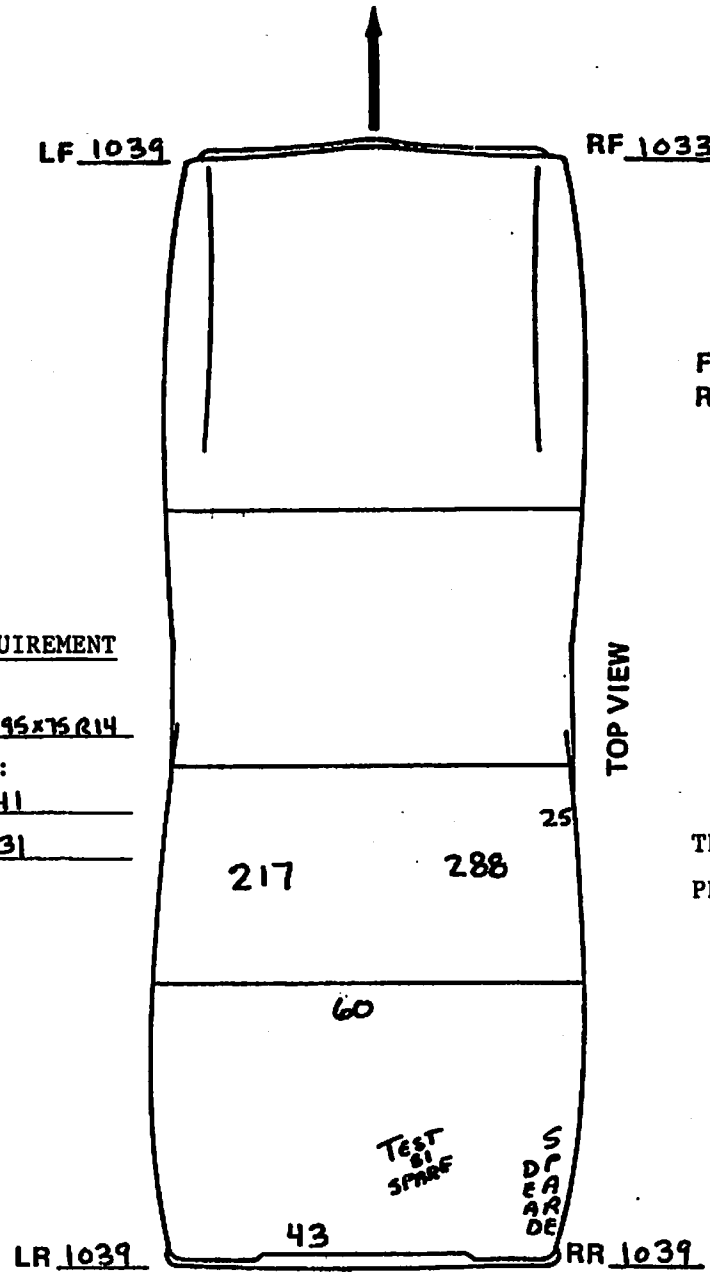
Test 450002/4

Ref. Project 08-7928-001

C. L. Lee
SOUTHWEST RESEARCH INSTITUTE

15 FEB 84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS 2072
REARS 2078
TOTAL 4150

LOAD REQUIREMENT

TIRE SIZE P195x75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 450002
PROJ. NO. 08-7928-001

VEHICLE LOAD

CAR NO. 1407
W/FULL TANK/190 LB. DRIVER
FEB. 15, 1984

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	25	27
40	40	40	37
45	45	45	43
50	50	49	48
55	53	53	53

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195/75 x R14
Veh. No. 1408 Date 9 FEB 84
Driver LAKE Recorder COUCH
Tach No. 62381 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 197589
Dashometer Miles 1415
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

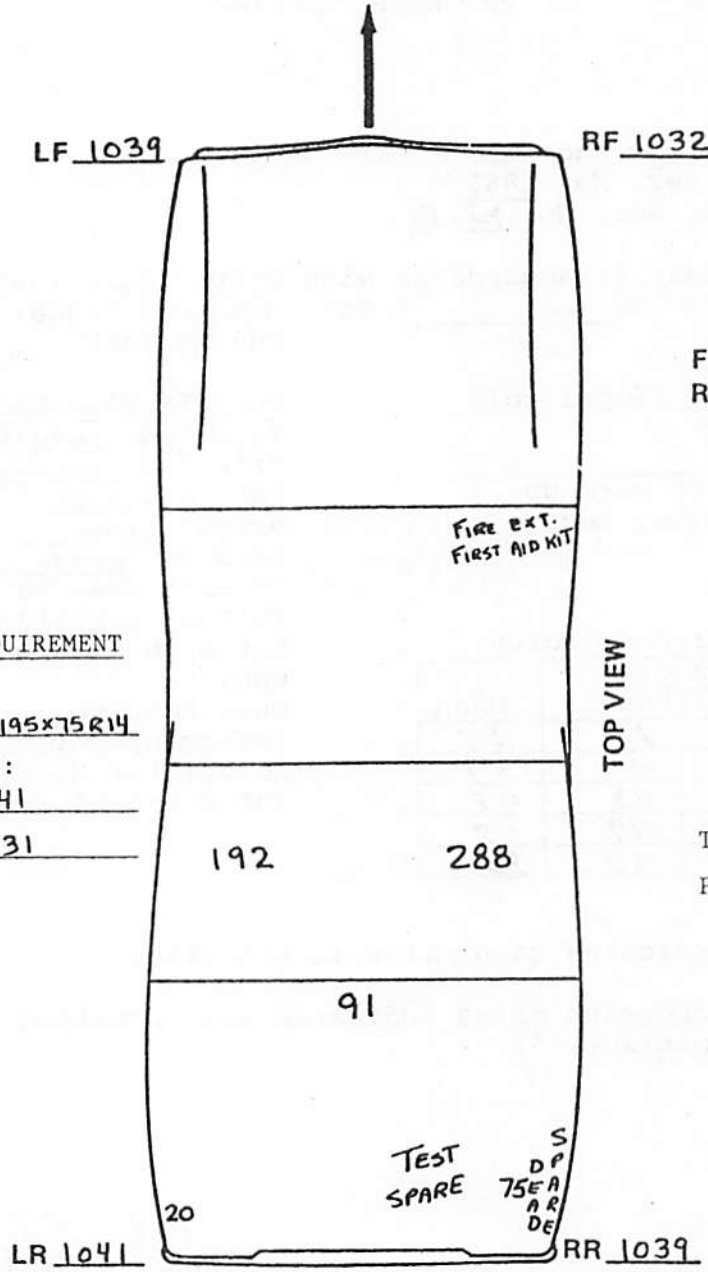
Test 450002/450004

Ref. Project 08-7928-001

C. W. Lake
SOUTHWEST RESEARCH INSTITUTE

9 FEB 84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS 2071
REARS 2080
TOTAL 4151

LOAD REQUIREMENT

TIRE SIZE P195x75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 450002
PROJ. NO. 08-7928-001

VEHICLE LOAD

CAR NO. 1408
W/FULL TANK/190 LB. DRIVER
FEB 16, 1984

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

PHASE II

4S0005

SwRI 08-7928-002 For US/DOT NHTSA

Date 5/ 9/84

P.O. DTNH22-84-C-07106

Convoy R103 Test 430005 Schedule Go 5/ 9/84

Car	Vehicle	Test Tire: Sp Code/Tire	Test Tire: Inventory	Test Condition: Calibration Summary
1	1403	JA 7928/51	A X1111	Speed 56 mph Indicated
	'84 REGAL	1G4AJ P195/75R14SL	B X1112	1 55 mph
	2drCpe 3.8L/V6	RADIAL	C X1113	Infl.psi Max 34 Test 26
	AT,AC,PS,PB,AM	103X	D X1114	Load Spec.lbs 1041/1031
	47A5EH436768		E _____	LF 1041 lbs RF 1031 lbs
	Test Rim Size 14 X 6			LR 1033 lbs RR 1039 lbs
	Start Alignment Checked ___ Car Ready ___			5/ 8/84
2	1404	JA 7928/52	A M1121	Speed 55 mph Indicated
	'84 REGAL	1G4AJ P195/75R14SL	B M1122	1 55 mph
	2drCpe 3.8L/V6	RADIAL	C M1123	Infl.psi Max 34 Test 26
	AT,AC,PS,PB,AM	103M	D M1124	Load Spec.lbs 1041/1031
	47A1EH400533		E _____	LF 1035 lbs RF 1040 lbs
	Test Rim Size 14 X 6			LR 1041 lbs RR 1031 lbs
	Start Alignment Checked ___ Car Ready ___			5/ 8/84

Accepted Test Ready

US/DOT NHTSA SOUTHWEST RESEARCH INSTITUTE

UTQG FACILITY SAN ANGELO Test Go / / Test Complete / /

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	25	25
40	40	41	39
45	45	46	44
50	50	51	48
55	56	56	53

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195/75R14
Veh. No. 1403 Date 5-9-84
Driver JONES Recorder JONES
Tach No. 74845 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 179061
Dashometer Miles 21881
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

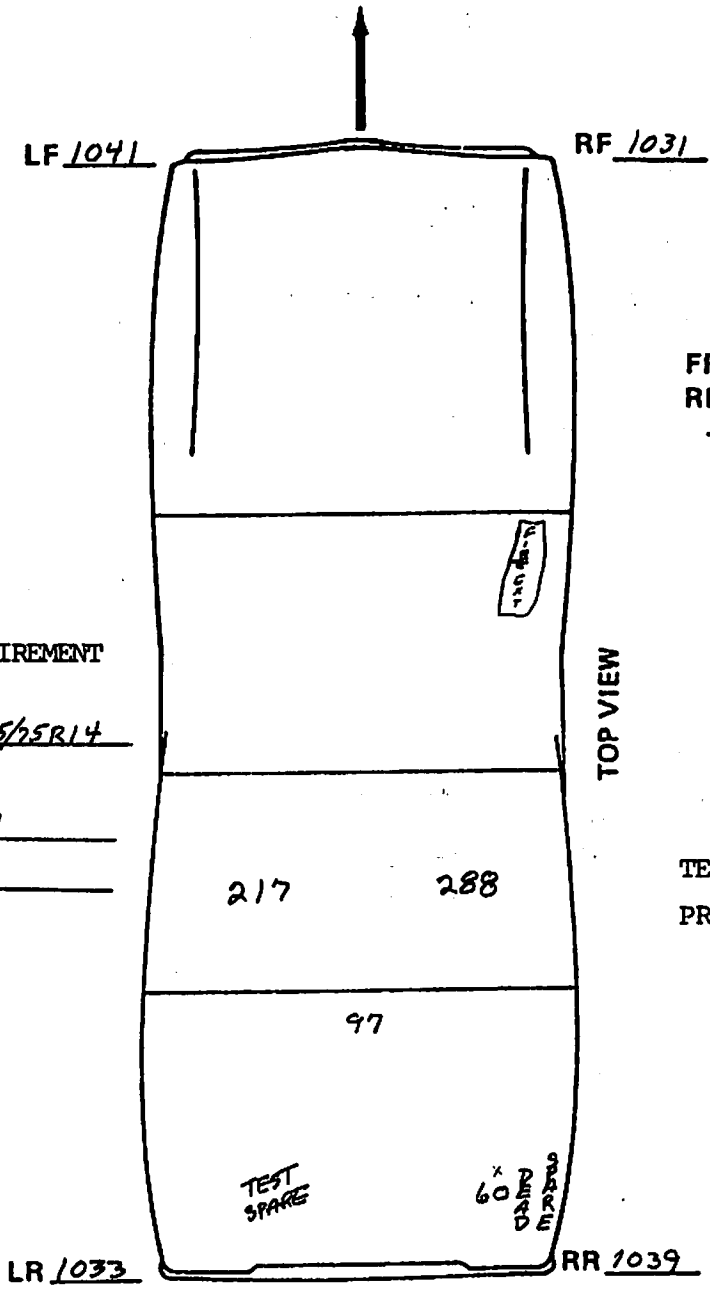
Test 450005

Ref. Project 08-7928-002

E. F. Jones
SOUTHWEST RESEARCH INSTITUTE

5-9-84
DATE

SOUTHWEST RESEARCH INSTITUTE



LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:

MAX 1041

MIN 1031

TEST NO. 4S0005

PROJ. NO. 08-7928-002

VEHICLE LOAD

CAR NO. 1403

w/FULL TANK/DRIVER WT. 190

MAY 10, 1984

PERMANENT BALLAST

TRIM WEIGHT

TOOL KIT (OR 25-LB TRIM)

EMERGENCY KIT

X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction.
   Internal Cal @ 32 ✓ ; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires 26 psi cold ✓

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	25	25
40	40	40	40
45	45	45	45
50	50	50	50
55	55	55	55

VEHICLE CALIBRATION
Tire Type UNIROYAL (RADIAL)
Tire Size P195/75R14
Veh. No. 1404 Date 5-9-84
Driver JONES Recorder JONES
Tach No. 64003 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 156616
Dashometer Miles 17258
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

   Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

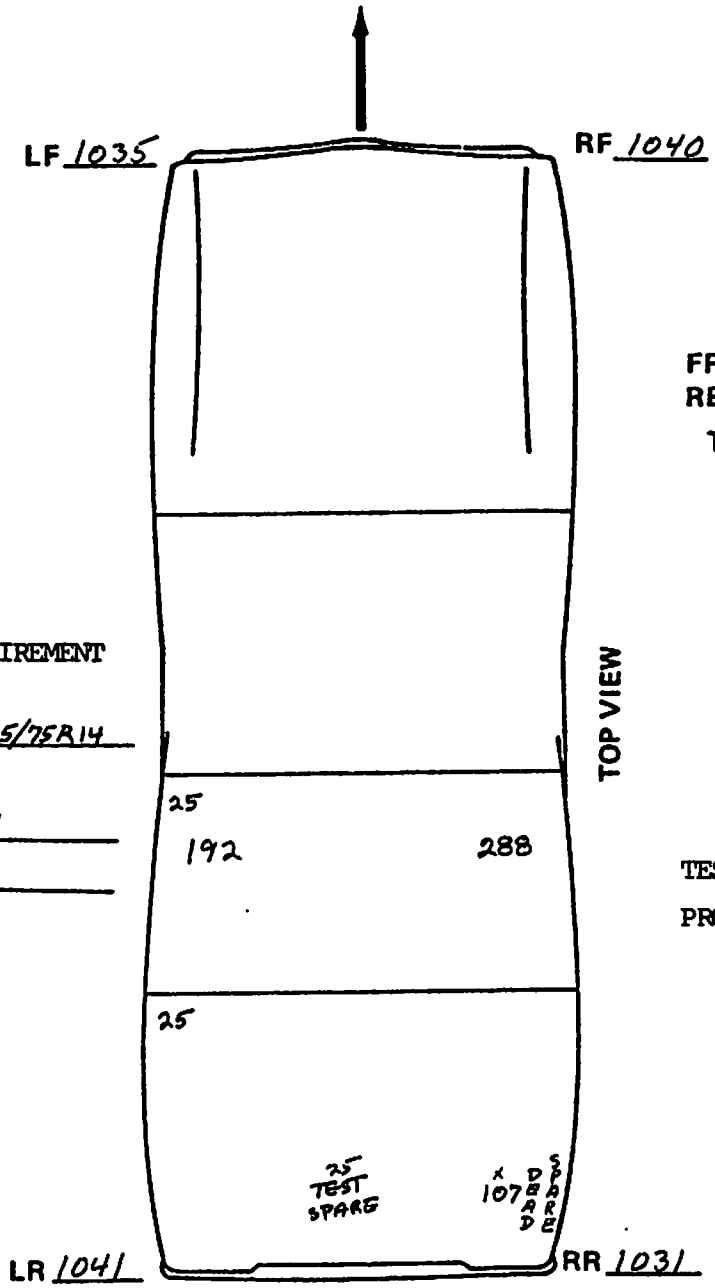
Test 450005

Ref. Project 08-7928-002

E. F. Jones
SOUTHWEST RESEARCH INSTITUTE

5-9-84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS 2075
REARS 2072
TOTAL 4147

LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:

MAX 1041

MIN 1031

TEST NO. 450005

PROJ. NO. 08-7928-002

VEHICLE LOAD

CAR NO. 1404

W/FULL TANK/DRIVER WT 190

MAY 10, 1984

PERMANENT BALLAST

TRIM WEIGHT

TOOL KIT (OR 25-LB TRIM)

EMERGENCY KIT

X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

PHASE III

4S0006	4S0007
4S0008	4S0009
-1401	-1405
-1402	-1406
-1403	-1407
-1404	-1408

SwRI 08-7928-003 For US/DOT NHTSA

Date 5/ 9/84

P.O. DTNH22-84-C-07106

Convoy R301 Test 450006 Schedule Go 5/ 9/84

Car	Vehicle	Test Tire: Sp Code/Tire	Test Tire: Inventory	Test Condition: Calibration Summary
1	1401 '84 REGAL 2drCpe 3.8L/V6 AT,AC,PS,PB,AM,FM 47A3EM400565 Test Rim Size 14 X 6	JA 7928/61 1G4AJ P195/75R14SL RADIAL 301X	A X3611 B X3612 C X3613 D X3614 E _____	Speed 55 mph Indicated S 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1041 lbs RF 1041 lbs LR 1036 lbs RR 1031 lbs Start Alignment Checked ___ Car Ready ___ __/__/__
2	1402 '84 REGAL 2drCpe 3.8L/V6 AT,AC,PS,PB,AM 47A9EM400531 Test Rim Size 14 X 6	JA 7928/62 1G4AJ P195/75R14SL RADIAL 301M	A M3621 B M3622 C M3623 D M3624 E _____	Speed 55 mph Indicated S 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1032 lbs RF 1031 lbs LR 1032 lbs RR 1039 lbs Start Alignment Checked ___ Car Ready ___ __/__/__
3	1403 '84 REGAL 2drCpe 3.8L/V6 AT,AC,PS,PB,AM 47A5EM435768 Test Rim Size 14 X 6	JA 7928/63 1G4AJ P195/75R14SL RADIAL 301G	A G3631 B G3632 C G3633 D G3634 E _____	Speed 56 mph Indicated S 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1034 lbs RF 1035 lbs LR 1032 lbs RR 1032 lbs Start Alignment Checked ___ Car Ready ___ __/__/__
4	1404 '84 REGAL 2drCpe 3.8L/V6 AT,AC,PS,PB,AM 47A1EM400533 Test Rim Size 14 X 6	JA 7928/64 1G4AJ P195/75R14SL RADIAL 301E	A B3641 B B3642 C B3643 D B3644 E _____	Speed 54 mph Indicated S 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1035 lbs RF 1039 lbs LR 1040 lbs RR 1033 lbs Start Alignment Checked ___ Car Ready ___ __/__/__

Accepted Test Ready

US/DOT NHTSA SOUTHWEST RESEARCH INSTITUTE

UTQG FACILITY SAN ANGELO Test Go / / Test Complete / /

SwRI 08-7928-003 For US/DOT NHTSA

Date 5/ 9/84

P.O. DTNH22-84-C-07106

Convoy 5302 Test 45008 Schedule Go 5/ 9/84

Car	Vehicle	Test Tire Sn Code/Tire Inventory	Test Condition Calibration Summary
1	1401 JA '84 REGAL 1G4AJ 2drCpe 3.8L/V6 AT,AC,PS,PB,AM,FM 47A3EH400565 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/81 P195/75R14SL RADIAL 302X A X3811 B X3812 C X3813 D X3814 E _____	Speed 55 mph Indicated S 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1041 lbs RF 1041 lbs LR 1036 lbs RR 1031 lbs __/__/__
2	1402 JA '84 REGAL 1G4AJ 2drCpe 3.8L/V6 AT,AC,PS,PB,AM 47A8EH400531 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/82 P195/75R14SL RADIAL 302M A M3821 B M3822 C M3823 D M3824 E _____	Speed 55 mph Indicated S 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1032 lbs RF 1031 lbs LR 1032 lbs RR 1039 lbs __/__/__
3	1403 JA '84 REGAL 1G4AJ 2drCpe 3.8L/V6 AT,AC,PS,PB,AM 47A5EH435762 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/83 P195/75R14SL RADIAL 302G A G3841 B G3842 C G3843 D G3844 E _____	Speed 56 mph Indicated S 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1034 lbs RF 1035 lbs LR 1032 lbs RR 1032 lbs __/__/__
4	1404 JA '84 REGAL 1G4AJ 2drCpe 3.8L/V6 AT,AC,PS,PB,AM 47A1EH400533 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/84 P195/75R14SL RADIAL 302B A B3841 B B3842 C B3843 D B3844 E _____	Speed 54 mph Indicated S 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1035 lbs RF 1039 lbs LR 1040 lbs RR 1033 lbs __/__/__

Accepted Test Ready

US/DOT NHTSA SOUTHWEST RESEARCH INSTITUTE

UTQG FACILITY SAN ANGELO Test Go / / Test Complete / /

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction.
   Internal Cal @ 32 ✓ ; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires ~~24~~ 26 psi cold

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	25	24
40	39	40	38
45	44	45	44
50	49	50	48
55	55	55	54

VEHICLE CALIBRATION
Tire Type P195/75R14 Radial
Tire Size P195/75R14
Veh. No. 1401 Date 7-12-84
Driver CWL Recorder [illegible]
Tach No. 75-520 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 1638721
Dashometer Miles 33417
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

   Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

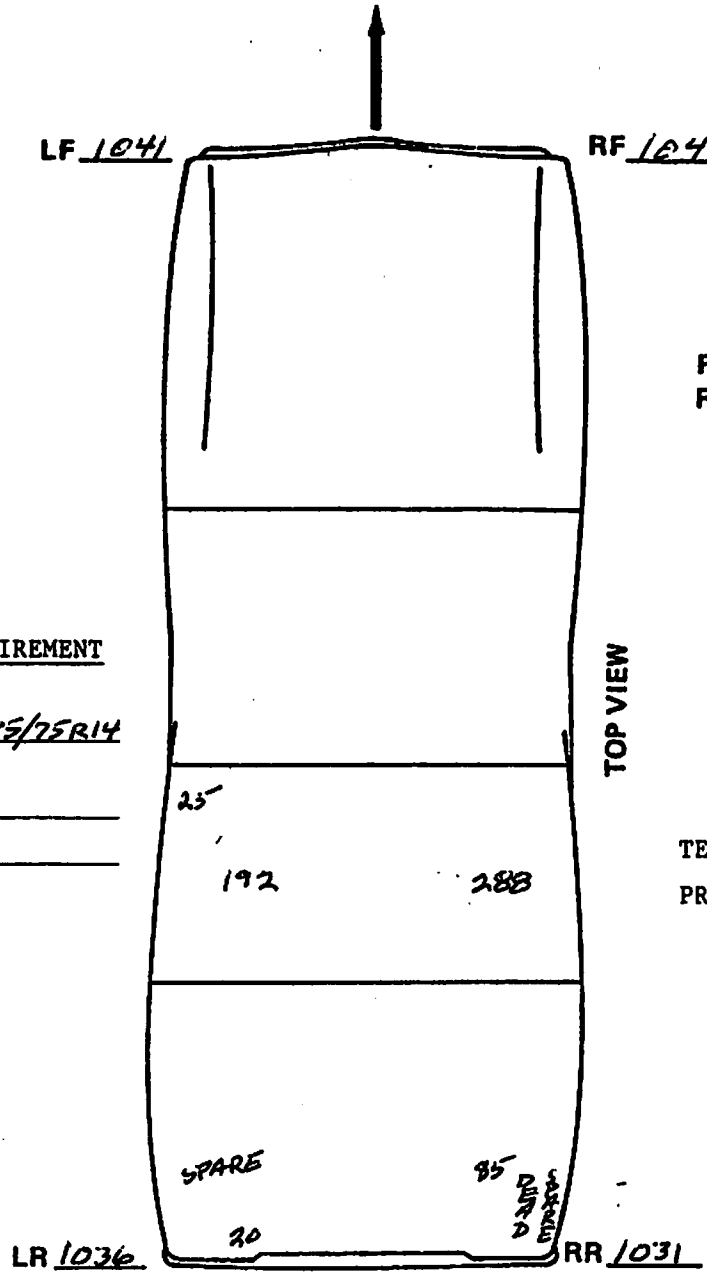
Test 450006+8

Ref. Project 08-7729-003

E. [illegible]
SOUTHWEST RESEARCH INSTITUTE

7-12-84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS
REARS
TOTAL ____

LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 450006-8
PROJ. NO. 08-7928-003

VEHICLE LOAD

CAR NO. 1401
w/FULL TANK/190 LB DRIVER
7-12-84

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓ ; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires ~~24~~ 26 psi cold

3. ✓ Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	23	24	24
40	38	35	34
45	44	43	44
50	50	49	49
55	55	55	54

VEHICLE CALIBRATION
Tire Type RADIAL
Tire Size P195/75R14
Veh. No. 1402 Date 7-12-84
Driver CWL Recorder EFJ
Tach No. 76736 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 67255
Dashometer Miles 19518
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

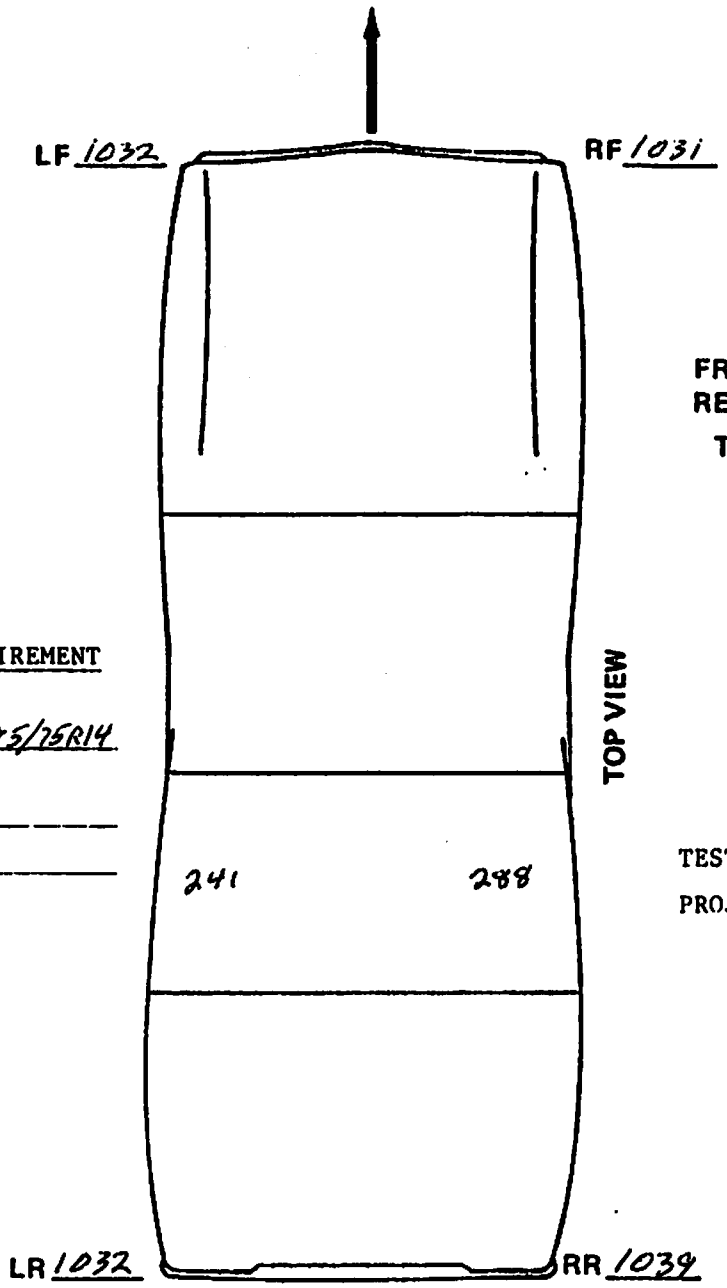
Test 4S0006 + 8

Ref. Project 04-7728-003

E. Jones
SOUTHWEST RESEARCH INSTITUTE

7-12-84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS
REARS
TOTAL

LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 490006 + 8
PROJ. NO. 08-7929-003

VEHICLE LOAD

CAR NO. 1402
w/FULL TANK/190 LB Driver
7-11-84

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires ~~24~~ 26 psi cold

3. ✓ Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	26	24
40	40	41	35
45	45	46	44
50	51	50	48
55	57	56	53

VEHICLE CALIBRATION
Tire Type RADIAL
Tire Size P195/75R14
Veh. No. 1403 Date 7-12-84
Driver CWL Recorder EFJ
Tach No. 378 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 194831
Dashometer Miles 37534
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

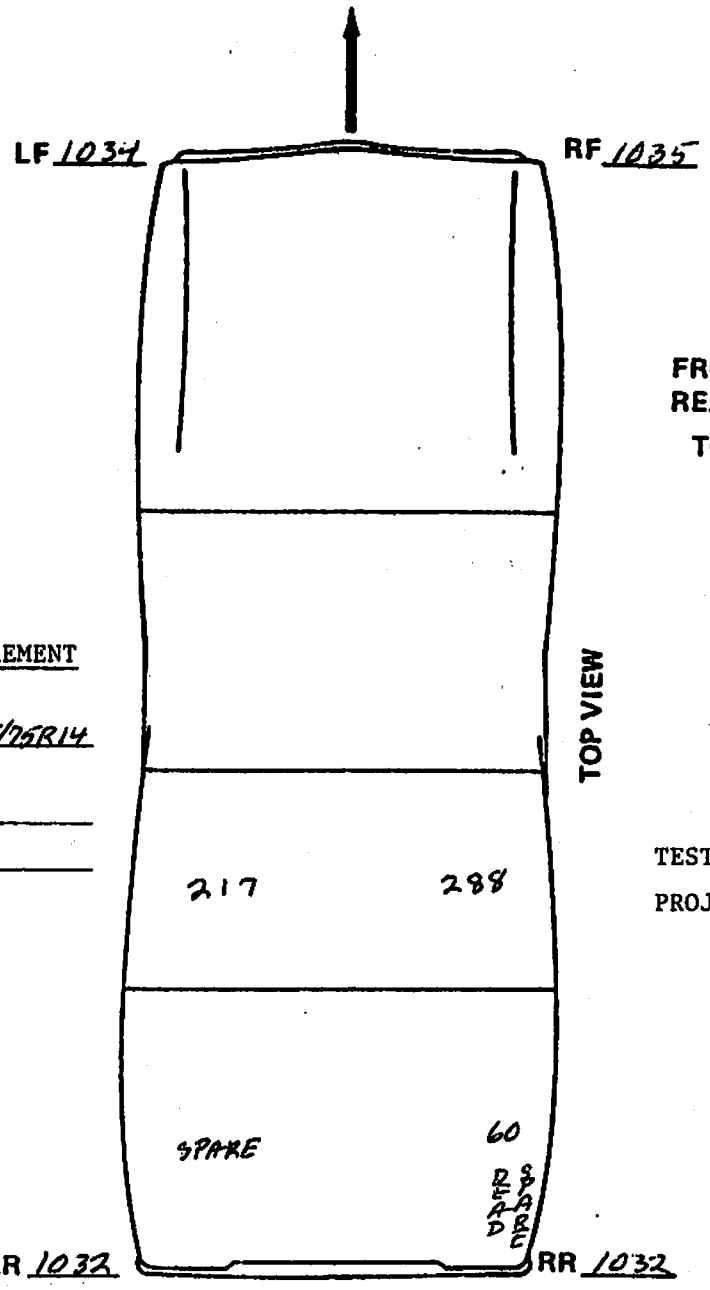
Test 490006 + 8

Ref. Project 08-7928-003

E. James
SOUTHWEST RESEARCH INSTITUTE

7-12-84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS
REARS
TOTAL

LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 480006+8
PROJ. NO. 08-7928-003

VEHICLE LOAD

CAR NO. 1403
W/FULL TANK/190 LB DRIVER
7-11-84

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓ ; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires ~~24~~ 26 psi cold

3. ✓ Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	24	25	25
40	39	39	40
45	45	44	45
50	50	49	50
55	55	54	55

VEHICLE CALIBRATION
Tire Type RADIAL
Tire Size P195/75R14
Veh. No. 1404 Date 7-12-84
Driver CWL Recorder EFJ
Tach No. 74945 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 172040
Dashometer Miles 32761
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

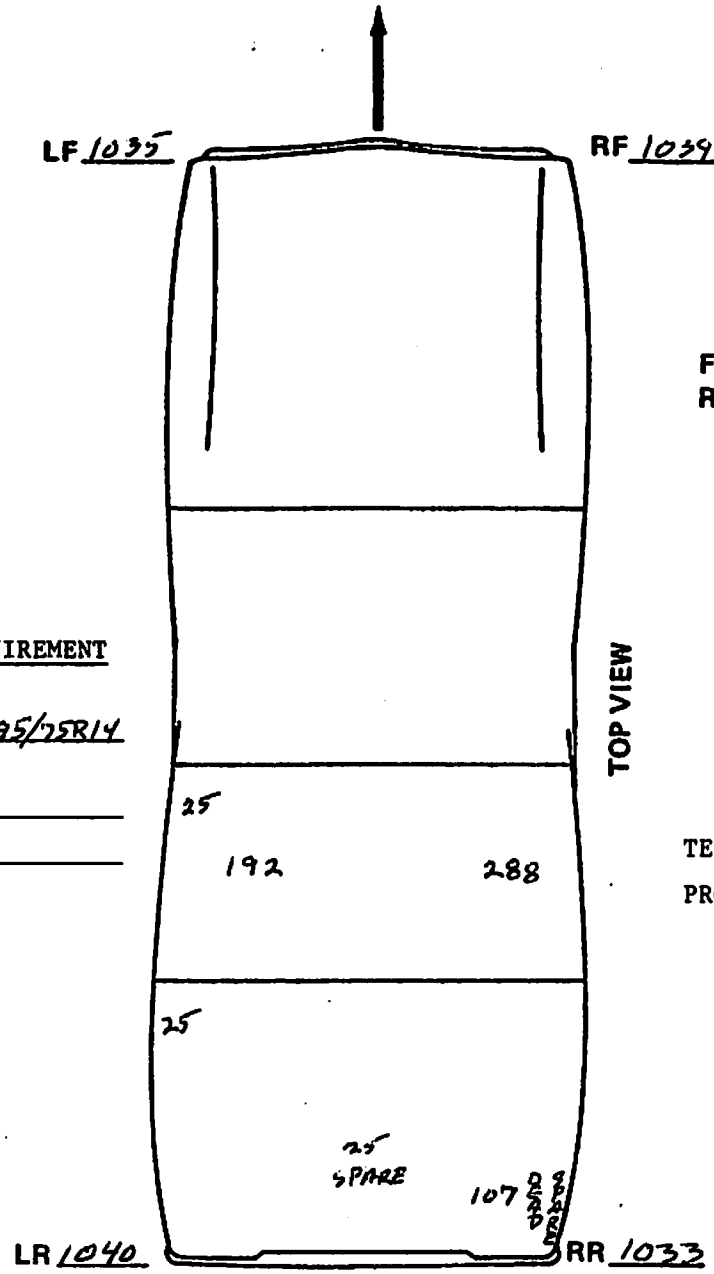
Test 490006 & 8

Ref. Project 08-7928-003

E. James
SOUTHWEST RESEARCH INSTITUTE

7-12-84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS
REARS
TOTAL

LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 450006 + 8
PROJ. NO. 08-7928-003

VEHICLE LOAD

CAR NO. 1404
W/FULL TRAK/190 LB DRIVER
7-11-84

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

SwRI 08-7926-003 For US/DOT NHTSA

Date 5/ 9/84

P.O. DTNH22-84-C-07106

Convoy P401 Test 450007 Schedule Go 5/ 9/84

Car	Vehicle	Test Tire: Sp Code/Tire	Test Tire: Inventory	Test Condition: Calibration Summary
1	1409 '84 RE5AL 1044J 2drCpe 3.9L/V6 AT,AC,PS,PB,AM,RW 47A6B-402028 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	J4 7926/71 P195/75R14SL RADIAL 4014	A X3711 B X3712 C X3713 D X3714 E _____	Speed 55 mph Indicated 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1039 lbs RF 1034 lbs LR 1032 lbs RR 1040 lbs __/__/__
2	1408 '84 RE5AL 1044J 2drCpe 3.9L/V6 AT,AC,PS,PB,AM 47A6B-402032 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	J4 7926/72 P195/75R14SL RADIAL 4014	A M3721 B M3722 C M3723 D M3724 E _____	Speed 55 mph Indicated 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1035 lbs RF 1036 lbs LR 1031 lbs RR 1039 lbs __/__/__
3	1407 '84 RE5AL 1044J 2drCpe 3.9L/V6 AT,AC,PS,PB,AM 47A6B-401023 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	J4 7926/73 P195/75R14SL RADIAL 4010	A G3731 B G3732 C G3733 D G3734 E _____	Speed 55 mph Indicated 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1040 lbs RF 1032 lbs LR 1040 lbs RR 1037 lbs __/__/__
4	1408 '84 RE5AL 1044J 2drCpe 3.9L/V6 AT,AC,PS,PB,AM 47A6B-400432 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	J4 7926/74 P195/75R14SL RADIAL 4014	A B3741 B B3742 C B3743 D B3744 E _____	Speed 54 mph Indicated 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1039 lbs RF 1031 lbs LR 1040 lbs RR 1037 lbs __/__/__

Accepted Test Ready

US/DOT NHTSA SOUTHWEST RESEARCH INSTITUTE

UTAG FACILITY SAN ANGELO Test Go / / Test Complete / /

SwRI 08-7928-003 For US/DOT NHTSA

Date 5/ 9/84

P.O. DTNH22-84-C-07106

Convoy R402 Test 430009 Schedule Go 5/ 9/84

Car	Vehicle	Test Tire: Sp Code/Tire	Test Tire: Inventory	Test Condition: Calibration Summary
1	1405 JA '84 REGAL 1G4AJ 2drCpe 3.8L/V6 AT,AC,PS,PB,AM,FM 47AXBM438925 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/91 P195/75R14SL RADIAL 402X	A X3911 B X3912 C X3913 D X3914 E _____	Speed 55 mph Indicated I 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1033 lbs RF 1036 lbs LR 1032 lbs RR 1040 lbs __/__/__
2	1406 JA '84 REGAL 1G4AJ 2drCpe 3.8L/V6 AT,AC,PS,PB,AM 47AXBM438790 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/92 P195/75R14SL RADIAL 402M	A M3921 B M3922 C M3923 D M3924 E _____	Speed 55 mph Indicated I 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1035 lbs RF 1035 lbs LR 1031 lbs RR 1038 lbs __/__/__
3	1407 JA '84 REGAL 1G4AJ 2drCpe 3.8L/V6 AT,AC,PS,PB,AM 47AZBM416123 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/93 P195/75R14SL RADIAL 402G	A G3931 B G3932 C G3933 D G3934 E _____	Speed 55 mph Indicated I 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1040 lbs RF 1032 lbs LR 1040 lbs RR 1037 lbs __/__/__
4	1408 JA '84 REGAL 1G4AJ 2drCpe 3.8L/V6 AT,AC,PS,PB,AM 47A6BM400432 Test Rim Size 14 X 6 Start Alignment Checked ___ Car Ready ___	7928/94 P195/75R14SL RADIAL 402E	A B3941 B B3942 C B3943 D B3944 E _____	Speed 54 mph Indicated I 55 mph Infl.psi Max 34 Test 26 Load Spec.lbs 1041/1031 LF 1039 lbs RF 1031 lbs LR 1040 lbs RR 1037 lbs __/__/__

Accepted Test Ready

US/DOT NHTSA SOUTHWEST RESEARCH INSTITUTE

UTQS FACILITY SAN ANGELO Test Go / / Test Complete / /

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires ~~24~~ 26 psi cold

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	26	25	25
40	40	40	40
45	45	45	45
50	47	50	50
55	52	55	55

VEHICLE CALIBRATION
Tire Type Radial
Tire Size P195/75R14
Veh. No. 1405 Date 7-12-84
Driver CWL Recorder APE
Tach No. 77-180 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 181287.1
Dashometer Miles 21996
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

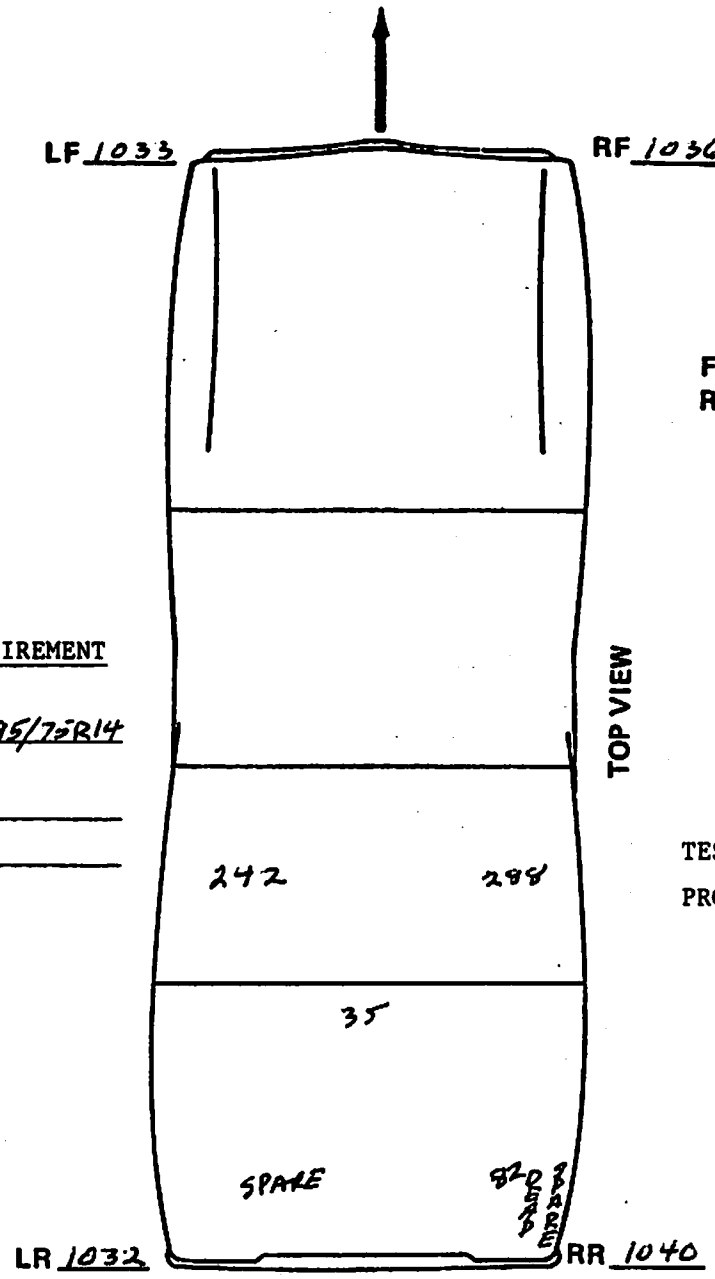
Test 450007-9

Ref. Project 04-7928-003

S. Jones
SOUTHWEST RESEARCH INSTITUTE

7-12-84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS
REARS
TOTAL

TOP VIEW

LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 450007+9
PROJ. NO. 08-7928-003

VEHICLE LOAD

CAR NO. 1405
W/FUEL TANK/170 LB DRIVER
7-12-84

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction.
   Internal Cal @ 32 ✓ ; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires ~~24~~ 26 psi cold

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	26	25
40	39	40	40
45	44	45	45
50	49	50	50
55	55	55	56

VEHICLE CALIBRATION
Tire Type Radial
Tire Size P185/75R14
Veh. No. 1406 Date 7-12-84
Driver CWL Recorder AKE
Tach No. 63-996 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 197216.3
Dashometer Miles 19084
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

   Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

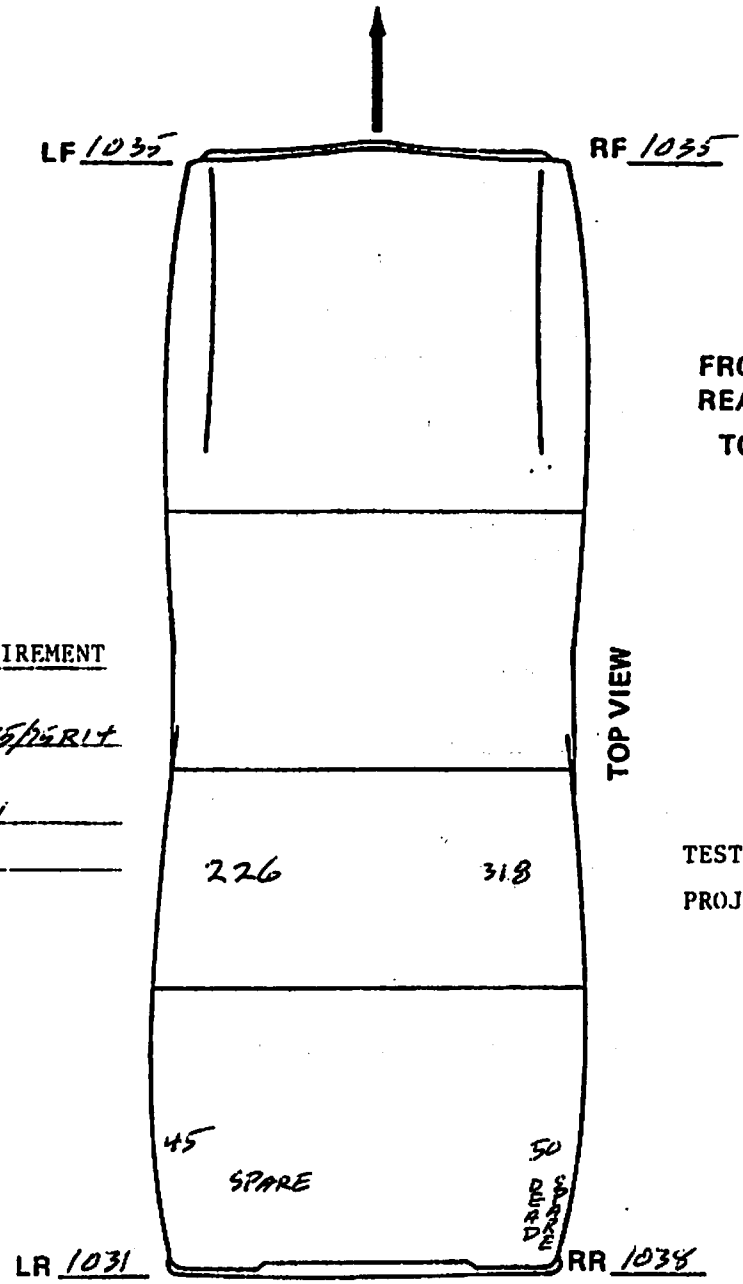
Test 450007-9

Ref. Project 08-7928-003

SOUTHWEST RESEARCH INSTITUTE

7-12-84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS
REARS
TOTAL

TOP VIEW

LOAD REQUIREMENT

TIRE SIZE P175/75R14

WHEEL LOADS:

MAX 1041

MIN 1031

TEST NO. 450007-9

PROJ. NO. 08-7928-003

VEHICLE LOAD

CAR NO. 1406

w/FULL TANK/190 LB DRIVER

7-11-84

PERMANENT BALLAST

TRIM WEIGHT

TOOL KIT (OR 25-LB TRIM)

EMERGENCY KIT

X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓ ; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires ~~24~~ 26 psi cold

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	26	24
40	41	40	39
45	45	45	44
50	50	50	49
55	55	55	54

VEHICLE CALIBRATION
Tire Type Radial
Tire Size P195/75R14
Veh. No. 1407 Date 7-12-84
Driver CWL Recorder AVE
Tach No. 51593 Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor
Tachograph Miles 2048371
Dashometer Miles 20230
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

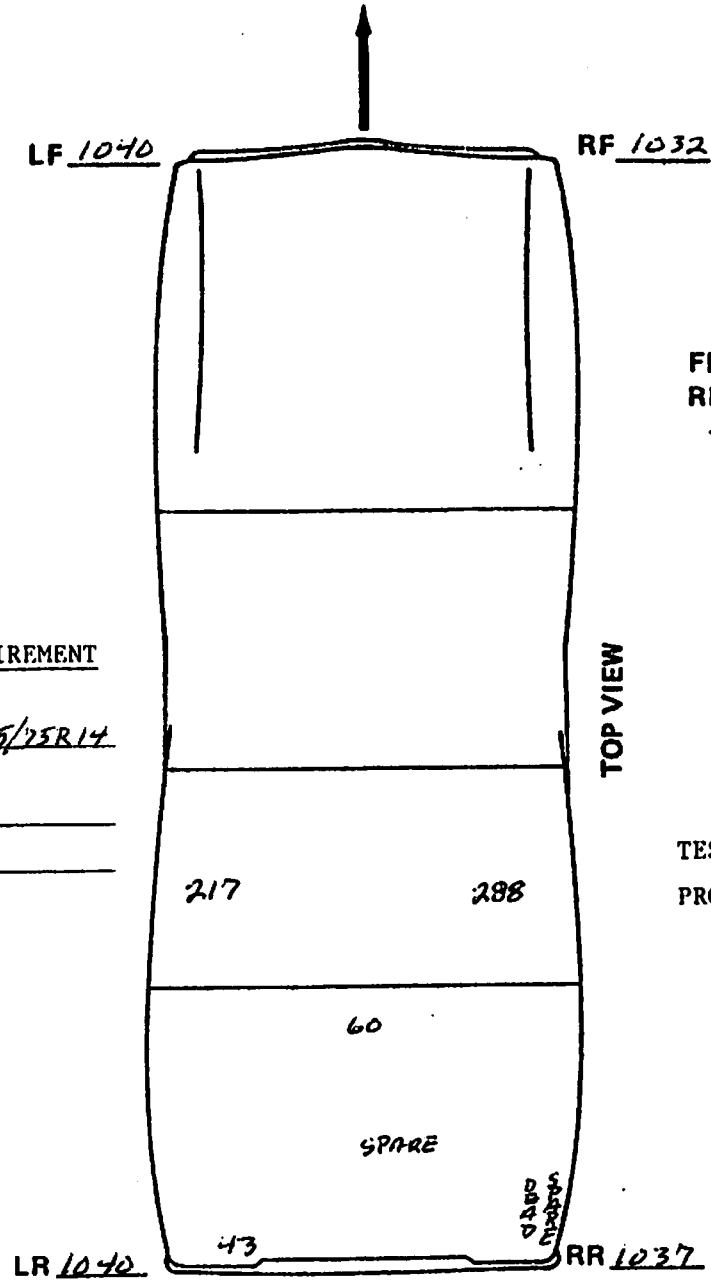
Test 430007-9

Ref. Project 08-7928-003

E. James
SOUTHWEST RESEARCH INSTITUTE

7-12-84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS
REARS
TOTAL

TOP VIEW

LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 490007-9
PROJ. NO. 08-7928-003

VEHICLE LOAD

CAR NO. 1407
W/FULL TANK/190LB DRIVER
7-11-84

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

Form 587-771
Rev. Dec. 1978

CALIBRATION OF VEHICLE TACHOGRAPH

PROCEDURE AND DATA

Equipment
Doppler Type Traffic Radar
MPH, Model K55, Ser. No. 1885
MPH, Tuning Fork, Ser. No. M2735

1. Calibrate Radar in accordance with Operational Instruction. Internal Cal @ 32 ✓ ; Cal. Received Signal with 50 mph Tuning Fork ✓

2. Vehicle Tires ~~24~~ 36 psi cold

3. Run 4 miles to warm up; During 5th mile, record following -

Indicated Velocity

Radar	Tachograph Dial	Tachograph Chart	Dash
25	25	25	24
40	40	40	37
45	45	45	43
50	49	50	47
55	53	54	52

VEHICLE CALIBRATION
Tire Type RADIAL
Tire Size P175/75R14
Veh. No. 1408 Date 7-12-84
Driver CWL Recorder AAE
Tach No. _____ Sangamo
In each case be careful to allow for any parallax.
Estimate needle reading to closest mph.
Dual Adaptor _____
Tachograph Miles 212720.4
Dashometer Miles 17258
(at start of procedure)

4. Distance - Indicated tach miles in 400 miles. _____.

Average tachograph miles indicated over previous test circuits (minimum, 5).

Calibrated for

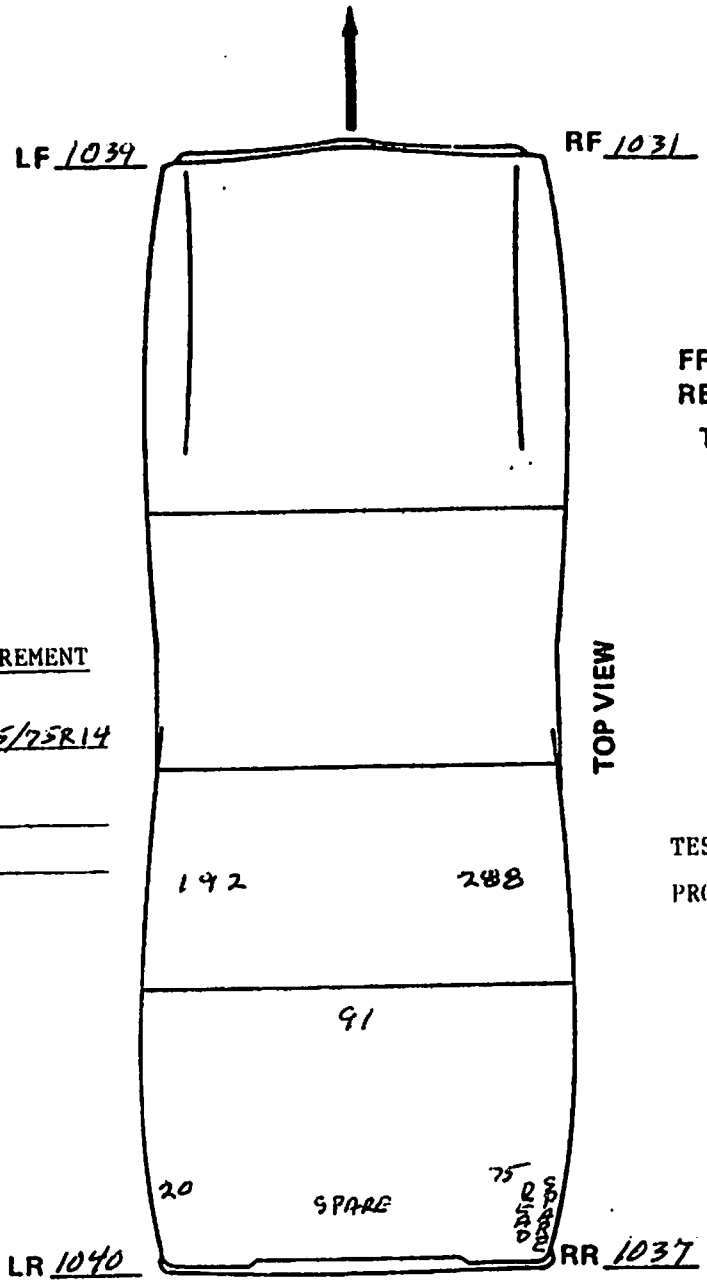
Test 490007 + 9

Ref. Project 08-7928-003

E. Jones
SOUTHWEST RESEARCH INSTITUTE

7-12-84
DATE

SOUTHWEST RESEARCH INSTITUTE



FRONTS
REARS _____
TOTAL

LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:
MAX 1041
MIN 1031

TEST NO. 450007+9
PROJ. NO. 08-7928-003

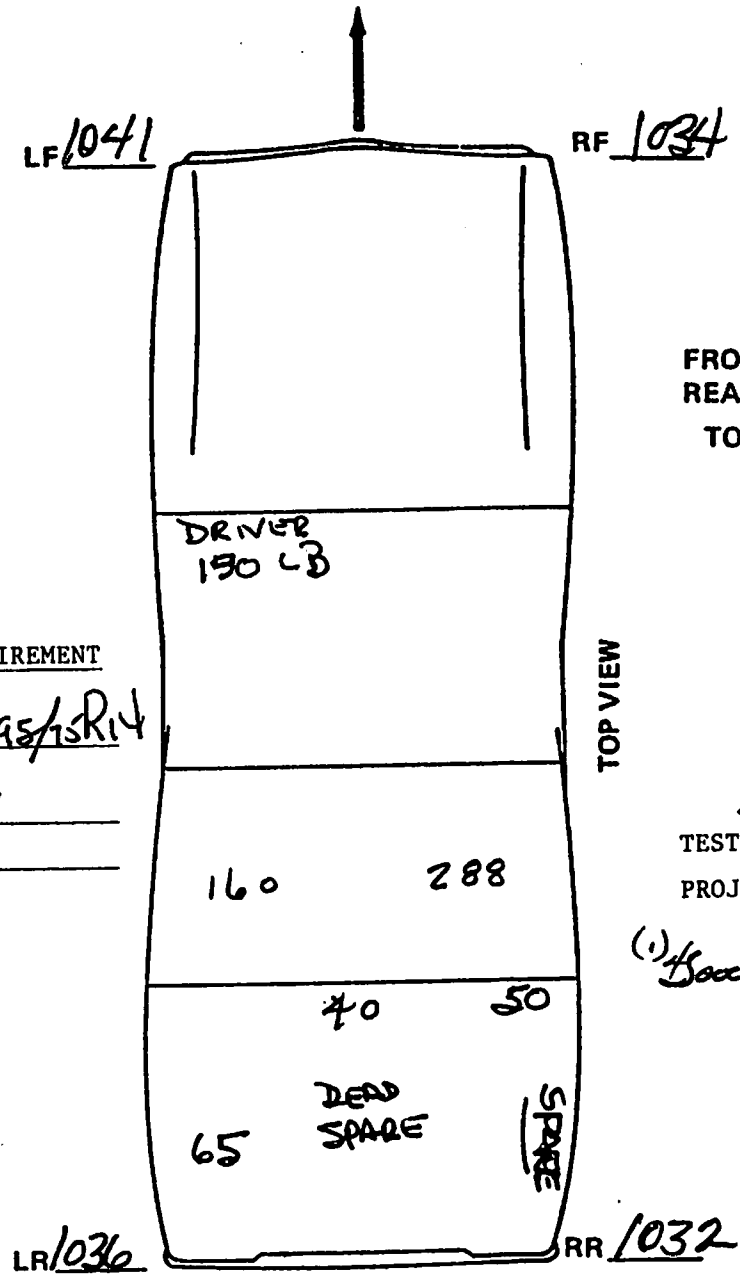
VEHICLE LOAD

CAR NO. 1408
w/FULL TANK / 190 LB Driver
7-11-84

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

SOUTHWEST RESEARCH INSTITUTE



TOP VIEW

FRONTS 2075
REARS 2068
TOTAL 4143

LOAD REQUIREMENT

TIRE SIZE P195/75R14

WHEEL LOADS:
MAX 1041
MIN 1031

ALL (1)
TEST NO.

PROJ. NO. 08-7928-001,003

(1) Seq 7 - 7/20/84, 7/23/84.

VEHICLE LOAD

CAR NO. 1409
STAND BY CAR
2/15/84 - 8/17/84

PERMANENT BALLAST
TRIM WEIGHT
TOOL KIT (OR 25-LB TRIM)
EMERGENCY KIT
X UNSPRUNG WEIGHT

SAN ANTONIO AND SAN ANGELO, TEXAS

MECHANICAL RECORD
ALIGNMENTS AND WHEEL LOADS

PHASE I

TESTS

4S0001
4S0002
4S0003
4S0004

PHASE II

TEST

4S0005

PHASE III

TESTS

4S0006
4S0007
4S0008
4S0009

ALIGNMENTS

PHASE I

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DAY

ALIGNMENT RECORD · VEHICLE No 1401 450001

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 1.1	2-16	+½°	+½°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+½°	+½°	+3°	+3°	+3/16	−3/16						
						+1/16	+1/16	+1/8"					
BT 2.1	2-20	+½°	+½°	+3½°	+3°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+½°	+½°	+3½	+2¾°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+½°	+½°	+3¼°	+3½°	+1/16"	+1/16"	+1/8"					
.2	2-23	+½°	+½	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+½°	+½°	+3°	+3½°	+1/16"	+1/16"	+1/8"					
.2	2-28	+¾°	+¾°	+3°	+3°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+½°	+¾°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	3-1	+½°	+½°	+3°	+3¼°	+1/16"	+1/16"	+1/8"					
4.1	3-2	+½°	+½°	+3°	+3¼°	+1/16"	+1/16"	+1/8"					
2	3-7	+½°	+¾°	+3°	+3¼°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+½°	+¾°	+3°	+3¼°	+1/16"	+1/16"	+1/8"					
.2	3-9	+¼°	+¾°	+2½°	+3°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+½°	+½°	+3¼°	+3¼°	+1/16"	+1/16"	+1/8"					
.2	3-13	+½°	+½°	+3°	+3¼°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+¾°	+¼°	+3°	+3¼°	+1/16"	+1/16"	+1/8"					
2	3-15	+¾°	+½°	+3°	+3¼°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+¾°	+½°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-19	+¾°	+½°	+3°	+3¼°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

FROM CASTER 3° ± ½

FRONT CAMBER
½° ± ½

FRONT TOE
1/16" EA WHEEL
TOTAL ⅛"

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT

ALIGNMENT RECORD · VEHICLE No 1401 450003

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-in Left	Toe-in Right	Toe-in Total	Rear Wheels Camber Left	Camber Right	Toe-in Left	Toe-in Right	Toe-in Total
BS 1.1	2-17	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2	+3	+3 1/4	+1/16"	+1/16"	+1/8"					
BS 2.1	2-20	+1/2°	+1/2°	+3 1/4°	3 1/4°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/2°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	2-24	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+3/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+3/4°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/4°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	3-1	+3/4°	+3/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
4.1	3-1	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-7	+3/4°	+3/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/4°	+3/4°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-9	+1/2°	+1/2°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+1/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	3-13	+3/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/2°	+1/4°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-15	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+3/4°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DAY

ALIGNMENT RECORD · VEHICLE No 1402 45000001

Run/Circ.	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-in Left	Toe-in Right	Toe-in Total	Rear Wheels Camber Left	Camber Right	Toe-in Left	Toe-in Right	Toe-in Total
BS 1.1	2-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BT 2.1	2-20	+1/2°	+1/2	+3 1/2°	+3°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/4°	+1/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	2-23	+1/4°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/4°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16	+1/8"					
2.1	2-29	+1/4°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16	+1/8"					
2	3-1	+1/4	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
4.1	3-2	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	3-9	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2	3-15	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/4°	+1/2°	+3°	+3 1/2	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

FRONT CASTER
3° ± 1/2

FRONT CAMBER
1/2° ± 1/2

FRONT TOE
1/16" EA WHEEL
TOTAL 1/8"

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT

ALIGNMENT RECORD - VEHICLE No 1402 450003

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
DS 1.1	2-17	+1/2	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3 1/2°	+3°	+1/16"	+1/16"	+1/8"					
RT 2.1	2-20	+1/4°	+1/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/4°	+3/4°	+2 1/2°	+2 1/2°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/4	+1/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	2-24	+1/4	+1/2°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/4°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/4°	+1/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2	3-1	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
4.1	3-1	+1/4°	+1/2	+3°	+3 1/4°	+1/16"	+1/16°	+1/8"					
2	3-7	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-9	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/4°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-15	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

WMY

ALIGNMENT RECORD · VEHICLE No 1403 4S0001

Run/Circ	Date-Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 1.1	2-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BS 2.1	2-20	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/4°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/4°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	2-23	+1/2°	+1/2°	+3°	+2 3/4	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/4°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+3/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/4°	+3/4°	+2 1/2	+3°	+1/16"	+1/16"	+1/8"					
2	3-1	+1/2	+3/4°	+2 1/8	+2 3/4°	+1/16	+1/16	+1/8"					
4.1	3-2	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+3/4°	+2 3/8	+3°	+1/16"	+1/16"	+1/8"					
2	3-9	+1/4°	+3/4°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/4°	+3/4°	2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/4°	+3/4°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/2°	+3/4°	+2 1/2	+3°	+1/16"	+1/16"	+1/8"					
2	3-15	+1/2°	+3/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/2°	+3/4°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2	+3/4	+3°	+3°	+1/16	+1/16	+1/8					
EOT													

FIGURE 3.19
Vehicle Alignment Record

FRONT CASTER
3° ± 1/2

FRONT CAMBER
1/2° ± 1/2

FRONT TOE
1/16" EA WHEEL
TOTAL 1/8"

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT

ALIGNMENT RECORD · VEHICLE No 1403 450003

Run / Cycle	Date / Miles	Front Wheels Camber Left	Front Wheels Camber Right	Front Wheels Caster Left	Front Wheels Caster Right	Front Wheels Toe-In Left	Front Wheels Toe-In Right	Front Wheels Toe-In Total	Rear Wheels Camber Left	Rear Wheels Camber Right	Rear Wheels Toe-In Left	Rear Wheels Toe-In Right	Rear Wheels Toe-In Total
DS 11	2-17	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3 1/2	+3°	+1/16"	+1/16"	+1/8"					
RI 21	2-20	+1/2°	+1/2°	+3 1/2	+3°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/4°	+1/4°	+2 1/2	+2 1/2°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	2-24	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/4°	3/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/4°	+3/4°	+2 1/2°	+3°	+1/16°	+1/16"	+1/8"					
3.1	2-29	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
2	3-1	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
4.1	3-1	+1/2°	+1/2°	+2 3/4	+3°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
2	3-9	+1/2°	+3/4	+3°	+3°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+3/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/2°	+3/4°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
2	3-15	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2°	+3/4°	+2 3/4	+3°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DAY

ALIGNMENT RECORD · VEHICLE No 1404

4S0001

Run / Cycle	Date / Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 11	2-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BT 21	2-20	+1/2°	+1/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+3/4°	+3/4°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	2-23	+1/2°	+1/4°	+3 1/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+1/4°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-1	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
4.1	3-2	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-7	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-9	+1/2°	+1/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	3-13	+3/4°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+3/4°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	3-15	+3/4°	+1/2°	+3°	+2 1/2°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+3/4°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

FRONT CASTER
$3° \pm \frac{1}{2}$

FRONT CAMBER
$\frac{1}{2}° \pm \frac{1}{2}$

FRONT TOE
$\frac{1}{16}$" EA. WHEEL
TOTAL $\frac{1}{8}$"

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT

ALIGNMENT RECORD · VEHICLE No 1404 450003

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-in Left	Toe-in Right	Toe-in Total	Rear Wheels Camber Left	Camber Right	Toe-in Left	Toe-in Right	Toe-in Total
BS 1.1	2-17	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
RI 2.1	2-20	+1/2°	+1/2	+3 1/4	+3°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+3/4°	+1/4°	+3 1/4°	+2 1/2°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/4°	+3 1/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	2-24	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+1/2°	3	+2 3/4°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/2°	+1/2°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-1	+1/2°	+1/2°	+2 1/2°	+2 3/4°	+1/16"	+1/16"	+1/8"					
4.1	3-1	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	3-9	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
6.1	3-11	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2		+3/4°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+3/4°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
2	3-15	+3/4°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+3/4°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DA

ALIGNMENT RECORD · VEHICLE No 1405

45[illegible]2

Run / Circ	Date / Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-in Left	Toe-in Right	Toe-in Total	Rear Wheels Camber Left	Camber Right	Toe-in Left	Toe-in Right	Toe-in Total
BS 1.1	2-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
RI 2.1	2-20	+1/2°	+1/2°	+2 1/2	+3°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/4°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	2-23	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+1/2°	+3°	+3 1/2"	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	3-1	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
4.1	3-2	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+1/2°	2 3/4°	3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-9	+1/2°	+1/2°	2 3/4°	3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+3/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+3/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-15	+3/4°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/2°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

FRONT CASTOR
3° ± 1/2

FRONT CAMBER
1/2° ± 1/2

FRONT TOE
1/16" EA WHEEL
TOTAL 1/8"

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT

ALIGNMENT RECORD - VEHICLE No 1405 45000 4

Run/Circ.	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BI 1.1	2-17	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/4°	+2 1/2	+3°	+1/16"	+1/16"	+1/8"					
BI 2.1	2-20	+1/2°	+1/2°	+2 1/2	+3°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	2-24	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/2°	+1/2°	+2 3/4	+3 1/4	+1/16"	+1/16"	+1/8"					
.2	3-1	+1/2°	+1/2°	+2 3/4°	3°	+1/16"	+1/16"	+1/8"					
4.1	3-1	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-9	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-13	+3/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+3/4°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	3-15	+3/4°	+1/2°	+2 3/4	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+3/4°	+1/2°	+2 3/4	+3 1/4	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2°	+3/4°	+2 3/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DAY

ALIGNMENT RECORD · VEHICLE No 1406 — 450002

Run/Cire	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 11	2-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BL 21	2-20	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/4°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	2-23	+3/4°	+3/4°	+2 1/2°	+2 1/2°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+1/2°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+1/2°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/4°	+1/4°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-1	+1/2°	+3/4°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
4.1	3-2	+1/2°	+3/4°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+3/4°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+3/4°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-9	+1/2°	+3/4°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+3/4°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/2°	+3/4°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/2°	+1/2°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
2	3-15	+1/2°	+3/4°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/2°	+1/2°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2°	+3/4°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

FRONT CASTOR
$3° \pm \frac{1}{2}$

FRONT CAMBER
$\frac{1}{2}° \pm \frac{1}{2}$

FRONT TOE
$\frac{1}{16}$" EA. WHEEL
TOTAL $\frac{1}{8}$"

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT

ALIGNMENT RECORD - VEHICLE No 1406 450004

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 1.1	2-17	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
RT 2.1	2-20	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/2°	+2 3/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/2°	+2 3/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	2-24	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+1/2°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/2°	+1/2°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-1	+1/2°	+1/2°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
4.1	3-1	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-9	+1/2°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/2°	+3/4°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/2°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	3-15	+1/2°	+3/4°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/2°	+3/4°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2°	+1/2°	+2 1/2°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DA:

ALIGNMENT RECORD · VEHICLE No 1407 — 4S0002

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 11	2-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
RI 21	2-20	+1/2°	+1/4°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/2°	+2 3/4°	3°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/2°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	2-23	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+1/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/2	+1/2	+2 1/2	+3°	+1/16"	+1/16"	+1/8"					
2	3-1	+1/2	+1/2	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
4.1	3-2	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-9	+1/2°	+1/2°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+1/2°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-13	+3/4°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
2	3-15	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/4°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/4	+1/2	+3 1/4°	+3 1/4	+1/16	+1/16	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

FRONT CASTOR
$3° \pm \frac{1}{2}$

FRONT CAMBER
$\frac{1}{2}° \pm \frac{1}{2}$

FRONT TOE
$\frac{1}{16}$" EA WHEEL
TOTAL $\frac{1}{8}$"

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT

ALIGNMENT RECORD - VEHICLE No 1407 45000 4

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-in Left	Toe-in Right	Toe-in Total	Rear Wheels Camber Left	Camber Right	Toe-in Left	Toe-in Right	Toe-in Total
BS 1.1	2-17	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+3/4°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
BS 2.1	2-20	+3/4°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/2°	+2 3/4°	+3 1/2°	+1/16"	+1/16	+1/8"					
1.1	2-22	+1/2°	+1/2°	+2 1/2°	3°	+1/16"	+1/16"	+1/8"					
.2	2-24	+3/4°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+1/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+1/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-1	+1/2°	+1/2°	+2 1/2°	+3°	+1/16"	+1/16"	+1/8"					
4.1	3-1	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-7	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	3-9	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+1/2°	+2 3/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-15	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/4°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DAY

ALIGNMENT RECORD · VEHICLE No 1408

450002

RUN / CIRC	DATE / MILES	FRONT WHEELS CAMBER LEFT	CAMBER RIGHT	CASTER LEFT	CASTER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOE-IN TOTAL	REAR WHEELS CAMBER LEFT	CAMBER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOTAL
BS 1.1	2-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BS 2.1	2-20	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/2°	+3 1/16	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	2-23	+1/2°	+1/2°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2°	+3/4°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+3/4	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
3.1	2-29	+1/2°	+1/2°	+3 1/4°	+3 1/2°	+1/16	+1/16"	+1/8"					
2	3-1	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
4.1	3-2	+1/2°	+1/2°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+3/4°	+3 1/4°	3 1/2°	+1/16"	+1/16	+1/8"					
5.1	3-8	+1/2°	+1/2°	+3 1/4°	3 1/2°	+1/16"	+1/16"	+1/8"					
.2	3-9	+1/2°	+3/4°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/2°	+3/4°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/2°	+3/4°	+3°	+3 1/2	+1/16"	+1/16"	+1/8"					
2	3-15	+1/2°	+3/4°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-19	+1/2°	+3/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

FRONT CASTOR
$3° \pm \frac{1}{2}$

FRONT CAMBER
$\frac{1}{2}° \pm \frac{1}{2}$

FRONT TOE
$\frac{1}{16}$" EA WHEEL
TOTAL $\frac{1}{8}$"

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT

ALIGNMENT RECORD · VEHICLE No. 1408 450004

Run / Circ	Date / Miles	Front Wheels Camber Left	Front Wheels Camber Right	Front Wheels Caster Left	Front Wheels Caster Right	Front Wheels Toe-In Left	Front Wheels Toe-In Right	Front Wheels Toe-In Total	Rear Wheels Camber Left	Rear Wheels Camber Right	Rear Wheels Toe-In Left	Rear Wheels Toe-In Right	Rear Wheels Toe-In Total
BS 1.1	2-17	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	2-18	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
BI 2.1	2-20	+1/2	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.2	2-21	+1/2°	+1/2°	+3 1/2°	+3 1/2°	+1/16"	+1/16"	+1/8"					
1.1	2-22	+1/2°	+1/2°	+3 1/4°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	2-24	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2.1	2-27	+1/2	+1/2°	+3	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	2-28	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2.1	2-29	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	3-1	+1/2°	+3/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
4.1	3-1	+1/2°	+3/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
2	3-7	+1/2°	+3/4°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	3-8	+1/2°	+3/4°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	3-9	+1/2°	+3/4°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	3-12	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	3-13	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
7.1	3-14	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
.2	3-15	+1/2°	+3/4°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
8.1	3-16	+1/2	+1/2	+3	+3 1/2	+1/16	+1/16	+1/8"					
.2	3-19	+1/2°	+1/2°	+3°	+3 1/2°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

WHEEL LOADS

PHASE I

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284 DAY

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Project:

Load Record - Vehicle 1401

	Group				Loads		Max. 1041		Min. 1031	
	Prior to		LF		RF		LR		RR	
	Run	Grc	From	To	From	To	From	To	From	To
17	B1	1	1034		1041		1041		1032	
18		2	1034		1034		1041		1038	
20	B2	1	1037		1038		1041		1041	
21		2	1032		1038		1040		1033	
22	1	1	1035		1033		1041		1035	
23		2	1034		1038		1041		1033	
	2	1	1032		1032		1040		1037	
		2	1035		1035		1040		1033	
	3	1	1035		1031		1041		1036	
		2	1033		1033		1040		1032	
	4	1	1031		1034		1041		1035	
		2	1032		1038		1039		1034	
	5	1	1034		1031		1040		1036	
		2	1033		1034		1035		1034	
	6	1	1039		1031		1039		1036	
		2	1032		1035		1039		1031	
	7	1	1031		1034		1040		1031	
		2	1034		1035		1039		1033	
	8	1	1034		1031		1038		1031	
		2	1032		1031		1036		1032	

Date:

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San Antonio, Texas 78284 NIGHT

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Project:

Load Record - Vehicle 1401

	Group				Loads		Max.	1041	Min.	1031
	Prior to		LF		RF		LR		RR	
	Run	Grc	From	To	From	To	From	To	From	To
18	B1	1	1035		1040		1041		1031	
19		2	1035		1038		1039		1035	
20	B2	1	1037		1032		1041		1032	
21		2	1032		1039		1041		1033	
22	1	1	1040		1031		1041		1041	
		2	1038		1041		1041		1035	
	2	1	1033		1032		1039		1032	
		2	1034		1034		1040		1031	
	3	1	1036		1032		1041		1031	
		2	1038		1041		1041		1039	
	4	1	1031		1031		1041		1035	
		2	1034		1031		1040		1032	
	5	1	1031		1039		1041		1031	
		2	1032		1032		1041		1032	
	6	1	1033		1034		1041		1033	
		2	1033		1033		1036		1035	
	7	1	1032		1035		1041		1033	
		2	1034		1038		1041		1034	
	8	1	1036		1031		1040		1032	
		2	1033		1031		1035		1033	

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San Antonio, Texas 78284

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DAY

Project:

Load Record - Vehicle 1402

Group				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1041		1032		1036		1041	
	2	1039		1041		1033		1041	
B2	1	1039		1041		1039		1041	
	2	1037		1041		1040		1039	
1	1	1038		1038		1041		1041	
	2	1034		1031		1032		1039	
2	1	1031		1035		1032		1036	
	2	1031		1035		1031		1032	
3	1	1032		1031		1031		1039	
	2	1033		1031		1032		1032	
4	1	1031		1035		1032		1033	
	2	1032		1031		1031		1031	
5	1	1031		1034		1036		1038	
Added 24 LBS	2	1034		1036		1037		1038	
6	1	1036		1041		1041		1040	
	2	1033		1037		1038		1040	
7	1	1041		1033		1041		1041	
	2	1033		1040		1036		1038	
8	1	1032		1035		1034		1041	
	2	1036		1031		1035		1041	

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Night

Project:

Load Record - Vehicle 1402

Group				Loads		Max.	1041	Min.	1031
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1038		1037		1037		1041	
	2	1039		1038		1039		1041	
B2	1	1040		1039		1034		1041	
	2	1040		1040		1041		1041	
1	1	1032		1038		1031		1033	
	2	1041		1035		1031		1040	
2	1	1034		1035		1031		1036	
	2	1035		1033		1032		1035	
3	1	1032		1032		1032		1031	
	2	1033		1031		1032		1033	
4	1	1031		1036		1033		1040	
	2	1031		1032		1031		1031	
5	1	1031		1031		1032		1035	
	2	1032		1039		1037		1039	
6	1	1040		1034		1039		1040	
	2	1033		1039		1039		1039	
7	1	1032		1031		1041		1041	
	2	1032		1038		1040		1039	
8	1	1038		1031		1041		1041	
	2	1036		1034		1040		1034	

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DAY

Project:

Load Record - Vehicle 1403

Group				Loads		Max.	1041	Min.	1031
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1040		1033		1031		1033	
	2	1040		1031		1036		1041	
B2	1	1041		1031		1040		1041	
	2	1040		1034		1034		1041	
1	1	1037		1031		1041		1040	
	2	1039		1033		1038		1040	
2	1	1041		1033		1041		1032	
	2	1041		1032		1036		1038	
3	1	1036		1031		1040		1039	
	2	1040		1031		1034		1039	
4	1	1041		1031		1040		1038	
	2	1036		1032		1041		1039	
5	1	1038		1033		1039		1037	
	2	1039		1031		1038		1038	
6	1	1041		1036		1040		1037	
	2	1036		1034		1040		1036	
7	1	1039		1031		1035		1038	
	2	1038		1031		1041		1039	
8	1	1031		1035		1036		1040	
	2	1034		1032		1037		1035	

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Night

Project:

Load Record - Vehicle 1403

Group				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1038		1032		1034		1041	
	2	1040		1033		1033		1038	
B2	1	1038		1031		1036		1039	
	2	1041		1037		1033		1041	
1	1	1040		1039		1041		1041	
	2	1039		1035		1039		1041	
2	1	1039		1032		1037		1039	
	2	1041		1031		1036		1039	
3	1	1037		1034		1041		1032	
	2	1038		1031		1036		1036	
4	1	1041		1031		1041		1031	
	2	1040		1031		1040		1041	
5	1	1037		1031		1035		1041	
	2	1039		1031		1036		1037	
6	1	1039		1032		1040		1036	
	2	1037		1032		1039		1040	
7	1	1037		1032		1039		1036	
	2	1037		1031		1038		1037	
8	1	1038		1036		1041		1034	
	2	1040		1035		1035		1032	

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DAY

Project:

Load Record - Vehicle 1404

Group				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1033		1040		1041		1033	
	2	1034		1041		1041		1031	
B2	1	1031		1040		1041		1032	
	2	1032		1039		1041		1033	
1	1	1034		1037		1040		1036	
	2	1035		1036		1041		1032	
2	1	1039		1031		1039		1040	
	2	1031		1038		1040		1038	
3	1	1031		1039		1041		1041	
	2	1036		1036		1040		1034	
4	1	1034		1038		1041		1033	
	2	1033		1039		1040		1034	
5	1	1031		1036		1041		1037	
	2	1031		1040		1041		1032	
6	1	1041		1035		1040		1031	
	2	1034		1040		1038		1032	
7	1	1033		1040		1039		1033	
	2	1035		1035		1041		1033	
8	1	1036		1031		1041		1032	
	2	1035		1032		1036		1035	

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Project:

Night

Load Record - Vehicle 1404

Group				Loads		Max.	1041	Min.	1031
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1034		1039		1041		1031	
	2	1031		1040		1041		1031	
B2	1	1031		1034		1041		1031	
	2	1033		1039		1039		1031	
1	1	1038		1034		1041		1038	
	2	1034		1037		1041		1037	
2	1	1033		1039		1041		1031	
	2	1038		1039		1041		1037	
3	1	1040		1031		1041		1039	
	2	1031		1037		1040		1032	
4	1	1033		1035		1035		1038	
	2	1032		1041		1041		1033	
5	1	1037		1033		1041		1035	
	2	1040		1034		1041		1032	
6	1	1040		1035		1039		1034	
	2	1035		1038		1041		1032	
7	1	1034		1038		1041		1032	
	2	1036		1032		1041		1034	
8	1	1034		1039		1041		1033	
	2	1033		1037		1040		1031	

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Load Record - Vehicle 1405 DAY Project:

Group				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1041		1035		1033		1041	
	2	1041		1034		1032		1041	
B2	1	1036		1040		1033		1040	
	2	1038		1031		1031		1039	
1	1	1034		1035		1031		1037	
	2	1041		1033		1031		1040	
2	1	1032		1036		1039		1041	
	2	1032		1036		1032		1041	
3	1	1040		1033		1031		1041	
	2	1032		1034		1033		1040	
4	1	1038		1037		1036		1034	
	2	1035		1034		1032		1038	
5	1	1034		1031		1031		1040	
	2	1033		1035		1031		1038	
6	1	1037		1033		1035		1041	
	2	1033		1033		1032		1038	
7	1	1031		1039		1031		1033	
	2	1040		1034		1031		1041	
8	1	1038		1032		1032		1035	
	2	1033		1033		1036		1040	

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Load Record - Vehicle 1405 Night Project:

Group				Loads		Max.	1041	Min.	1031
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1040		1036		1031		1041	
	2	1041		1031		1032		1041	
B2	1	1040		1035		1034		1038	
	2	1039		1033		1031		1040	
1	1	1037		1037		1031		1034	
	2	1032		1034		1032		1040	
2	1	1032		1039		1032		1035	
	2	1039		1032		1033		1041	
3	1	1031		1035		1034		1037	
	2	1036		1032		1032		1036	
4	1	1034		1036		1035		1040	
	2	1037		1032		1032		1038	
5	1	1037		1031		1032		1040	
	2	1033		1037		1032		1035	
6	1	1039		1031		1032		1040	
	2	1035		1034		1032		1041	
7	1	1031		1035		1031		1037	
	2	1032		1035		1031		1039	
8	1	1033		1037		1034		1036	
	2	1032		1039		1032		1032	

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Load Record - Vehicle 1406 DAY

Project:

Group				Loads		Max.	1041	Min.	1031
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1039		1033		1032		1041	
	2	1041		1032		1035		1035	
B2	1	1037		1033		1031		1034	
	2	1040		1039		1034		1038	
1	1	1038		1041		1036		1041	
	2	1041		1038		1032		1040	
2	1	1040		1040		1033		1040	
	2	1041		1041		1035		1040	
3	1	1040		1041		1035		1038	
	2	1038		1041		1031		1041	
4	1	1040		1039		1036		1037	
	2	1041		1041		1032		1040	
5	1	1041		1040		1036		1036	
	2	1041		1041		1033		1041	
6	1	1040		1039		1041		1041	
	2	1040		1041		1035		1040	
7	1	1040		1041		1038		1036	
	2	1040		1040		1034		1040	
8	1	1039		1038		1031		1041	
	2	1035		1037		1037		1041	

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Project:

Night

Load Record - Vehicle 1406

Group				Loads		Max.	1041	Min.	1031
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1041		1031		1031		1041	
	2	1041		1040		1033		1038	
B2	1	1039		1037		1035		1032	
	2	1041		1034		1039		1039	
1	1	1041		1039		1037		1038	
	2	1041		1036		1031		1041	
2	1	1041		1039		1031		1032	
	2	1041		1037		1031		1041	
3	1	1041		1041		1033		1035	
	2	1038		1040		1035		1034	
4	1	1039		1038		1039		1035	
	2	1041		1041		1034		1040	
5	1	1041		1041		1038		1041	
	2	1041		1041		1035		1040	
6	1	1041		1041		1034		1038	
	2	1039		1041		1032		1039	
7	1	1039		1041		1035		1039	
	2	1041		1038		1036		1041	
8	1	1034		1040		1033		1041	
	2	1034		1037		1032		1039	

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Project:

Load Record - Vehicle 1407 Day

Group				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1039		1033		1039		1039	
	2	1039		1035		1041		1040	
B2	1	1038		1038		1041		1040	
	2	1038		1040		1041		1039	
1	1	1039		1037		1040		1041	
	2	1039		1037		1041		1041	
2	1	1039		1033		1041		1040	
	2	1039		1034		1041		1041	
3	1	1031		1041		1033		1038	
	2	1032		1033		1032		1039	
4	1	1033		1034		1036		1039	
	2	1039		1033		1031		1036	
5	1	1031		1031		1034		1037	
	2	1034		1032		1033		1034	
6	1	1031		1033		1041		1033	
	2	1033		1032		1031		1036	
7	1	1032		1031		1038		1035	
	2	1035		1032		1033		1033	
8	1	1040		1031		1032		1033	
	2	1032		1031		1033		1035	

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Load Record - Vehicle 1407 Night Project:

Group				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1040		1033		1041		1041	
	2	1041		1031		1039		1041	
B2	1	1038		1035		1041		1036	
	2	1040		1037		1041		1037	
1	1	1041		1037		1041		1038	
	2	1039		1038		1040		1040	
2	1	1040		1036		1044		1038	
	2	1039		1040		1040		1040	
3	1	1034		1031		1036		1037	
	2	1031		1033		1035		1036	
4	1	1035		1033		1038		1039	
	2	1031		1035		1032		1032	
5	1	1032		1032		1033		1034	
	2	1031		1033		1033		1036	
6	1	1031		1033		1037		1035	
	2	1032		1035		1035		1031	
7	1	1031		1031		1036		1035	
	2	1032		1031		1032		1036	
8	1	1032		1031		1035		1034	
	2	1032		1032		1032		1031	

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DAY

Project:

Load Record - Vehicle 1408

Group				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1039		1032		1041		1039	
	2	1038		1037		1039		1041	
B2	1	1039		1032		1039		1035	
	2	1036		1031		1040		1041	
1	1	1038		1033		1040		1038	
	2	1036		1035		1038		1040	
2	1	1035		1032		1037		1036	
	2	1038		1031		1039		1038	
3	1	1036		1035		1041		1036	
	2	1039		1032		1039		1040	
4	1	1031		1033		1041		1037	
	2	1035		1032		1040		1040	
5	1	1039		1031		1041		1038	
	2	1035		1040		1041		1038	
6	1	1040		1036		1040		1036	
	2	1038		1033		1039		1036	
7	1	1031		1036		1041		1037	
	2	1036		1036		1041		1040	
8	1	1038		1040		1041		1037	
	2	1035		1033		1041		1038	

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Load Record - Vehicle 1408 Night

Project:

Group				Loads		Max.	1041	Min.	1031
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
B1	1	1041		1037		1041		1039	
	2	1031		1037		1040		1039	
B2	1	1039		1034		1041		1032	
	2	1034		1032		1040		1038	
1	1	1033		1031		1041		1041	
	2	1032		1038		1039		1037	
2	1	1038		1031		1041		1035	
	2	1034		1034		1040		1039	
3	1	1036		1031		1041		1039	
	2	1034		1033		1041		1039	
4	1	1038		1035		1040		1038	
	2	1033		1035		1041		1035	
5	1	1037		1032		1036		1041	
	2	1034		1036		1041		1037	
6	1	1034		1032		1040		1038	
	2	1036		1032		1040		1037	
7	1	1036		1038		1040		1033	
	2	1033		1033		1039		1037	
8	1	1034		1037		1041		1032	
	2	1036		1032		1039		1036	

Date:

Signature:

(SwR 17) Rev 6/75

ALIGNMENTS

PHASE II

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

ALIGNMENT RECORD - VEHICLE No 1403

RUN / CIRC.	84 DATE / MILES	FRONT WHEELS CAMBER LEFT	CAMBER RIGHT	CASTER LEFT	CASTER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOE-IN TOTAL	REAR WHEELS CAMBER LEFT	CAMBER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOE-IN TOTAL
INT	5-10	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
1-1	5-11	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	5-14	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2-1	5-15	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
-2	5-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
3-1	5-17	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	5-18	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
4-1	5-21	+1/2°	+3/4°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	5-22	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
5-1	5-23	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	5-24	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
6-1	5-25	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	5-28	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
7-1	5-29	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	5-30	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
8-1	5-31	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	6-1	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
9-1	6-4	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	6-5	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
10-1	6-6	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	6-7	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
11-1	6-8	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	6-9	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
12-1	6-11	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	6-12	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
13-1	6-13	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	6-14	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
14-1	6-15	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	6-16	+1/2°	+3/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
15-1	6-18	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	6-19	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
16-1	6-20	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
-2	6-25	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
17-1	6-26												
-2	6-27	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
18-1	6-28	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-29	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
19-1	6-30	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	7-2	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
20-1	7-3	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	7-4	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

ALIGNMENT RECORD - VEHICLE No 1404

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
INT	5-10	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
1-1	5-11	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	5-14	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
2-1	5-15	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	5-16	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
3-1	5-17	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	5-18	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
4-1	5-21	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	5-22	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
5-1	5-23	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	5-24	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
6-1	5-25	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	5-28	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
7-1	5-29	+1/2°	+1/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	5-30	+1/2°	+1/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
8-1	5-31	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-1	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
9-1	6-4	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-5	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
10-1	6-6	+1/2°	+1/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-7	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
11-1	6-8	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-9	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
12-1	6-11	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-12	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
13-1	6-13	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-14	+1/2°	+1/8°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
14-1	6-15	+1/2°	+1/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-16	+1/2	+1/4°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
15-1	6-18	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-19	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
16-1	6-20	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-25	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
17-1	6-26												
-2	6-27	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
18-1	6-28	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	6-29	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
19-1	6-30	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	7-2	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
20-1	7-3	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
-2	7-4	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					

WHEEL LOADS

PHASE II

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Page: _____

Project: 08-7928-002

Load Record - Vehicle 1403

Convoy/Test				Loads		Max.	1041	Min.	1031
Prior to		LF	1041	RF	1031	LR	1033	RR	1039
Run	Grc	From	To	From	To	From	To	From	To
1.1	1		1041		1031		1033		1039
.2	2		1039		1038		1038		1040
2.1	1		1041		1039		1038		1039
.2	2		1040		1040		1040		1040
3.1	1		1040		1040		1041		1039
.2	2		1040		1037		1037		1041
4.1	1		1035		1036		1032		1031
.2	2		1035		1031		1034		1033
5-1	1		1038		1036		1037		1031
.2	2		1038		1031		1036		1039
6-1	1		1040		1032		1038		1033
.2	2		1040		1032		1033		1033
7-1	1		1039		1035		1032		1034
.2	2		1038		1031		1032		1033
8-1	1		1036		1034		1031		1032
-2	2		1033		1031		1035		1031
9-1	1		1037		1032		1032		1032
-2	2		1039		1031		1035		1035
10-1	1		1040		1031		1034		1032
-2	2		1041		1036		1037		1032

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: 08-7928-002

Load Record - Vehicle 1403

Convoy/Test				Loads		Max.	1041	Min.	1031
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
11.1	1		1041		1041		1041		1035
.2	2		1040		1040		1039		1033
12.1	1		1040		1039		1039		1039
.2	2		1041		1035		1036		1038
13.1	1		1040		1036		1039		1040
.2	2		1040		1037		1039		1036
14.1	1		1041		1036		1040		1038
.2	2		1041		1039		1038		1036
15-1	1		1040		1036		1041		1034
.2	2		1041		1032		1041		1036
16-1	1		1040		1033		1040		1034
.2	2		1038		1033		1037		1035
17-1	1		1040		1035		1035		1038
.2	2		1039		1032		1038		1036
18-1	1		1041		1031		1038		1039
.2	2		1040		1038		1040		1033
19-1	1		1038		1036		1038		1036
.2	2		1039		1032		1038		1032
20-1	1		1040		1037		1036		1036
.2	2		1040		1032		1036		1034

-20
+5

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: 08-7928-002

Load Record - Vehicle 1404

Convoy/Test				Loads		Max.	1041	Min.	1031
Prior to		LF	1035	RF	1040	LR	1041	RR	1031
Run	Grc	From	To	From	To	From	To	From	To
1.1	1		1035		1040		1041		1031
.2	2		1035		1039		1037		1034
2.1	1		1038		1041		1038		1035
.2	2		1040		1039		1041		1032
3.1	1		1040		1040		1041		1037
.2	2		1033		1041		1039		1031
4.1	1	added 16 lbs in TRUNK on Top of SPARE	1032		1032		1031		1031
.2	2		1032		1032		1039		1032
5-1	1		1031		1038		1039		1036
.2	2		1032		1040		1039		1036
6-1	1		1032		1039		1040		1037
.2	2		1037		1037		1041		1034
7-1	1		1033		1036		1040		1037
.2	2		1035		1033		1038		1034
8-1	1		1037		1032		1032		1032
.2	2		1031		1038		1040		1032
9-1	1		1032		1039		1037		1033
.2	2		1033		1038		1038		1038
10-1	1		1035		1040		1036		1035
.2	2		1038		1039		1040		1036

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: 08-7928-002

Load Record - Vehicle 1404

Convoy/Test				Loads		Max.		Min.	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
11.1	1		1040		1040		1041		1038
.2	2		1040		1037		1038		1041
12.1	1		1041		1039		1036		1039
.2	2		1038		1039		1040		1039
13.1	1		1038		1041		1040		1034
.2	2		1038		1041		1038		1037
14.1	1		1040		1041		1040		1041
.2	2		1039		1041		1040		1041
15-1	1		1040		1038		1041		1038
-2	2		1039		1039		1038		1036
16-1	1		1034		1039		1040		1037
-2	2		1033		1039		1036		1037
17-1	1		1033		1038		1041		1033
-2	2		1034		1036		1040		1040
18-1	1		1036		1038		1041		1039
-2	2		1040		1037		1039		1037
19-1	1		1035		1041		1041		1031
-2	2		1036		1037		1038		1035
20-1	1		1036		1040		1040		1035
-2	2		1034		1038		1038		1037

ALIGNMENTS

PHASE III

430006

DAY-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

ALIGNMENT RECORD - VEHICLE No 1401

430006

Run/Circ.	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 1.1	7-12-84	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-19	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BI 2.1	7-23	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-1	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-3	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-7	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-13	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
EOT	8-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					

FIGURE 3.19
Vehicle Alignment Record

450008

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT-1

ALIGNMENT RECORD - VEHICLE No 1401

450008

Run / Circ	Date / Miles	Front Wheels Camber Left	Front Wheels Camber Right	Front Wheels Caster Left	Front Wheels Caster Right	Front Wheels Toe-In Left	Front Wheels Toe-In Right	Front Wheels Toe-In Total	Rear Wheels Camber Left	Rear Wheels Camber Right	Rear Wheels Toe-In Left	Rear Wheels Toe-In Right	Rear Wheels Toe-In Total
BS 1.1	7-18	+1/2°	+1/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-20	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BS 2.1	7-23	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-7	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-9	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-13	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-15	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

450006

DAY-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

ALIGNMENT RECORD - VEHICLE No 1402

450006

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 1.1	7-18-84	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-19	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16	+1/8"					
BS 2.1	7-23	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-7	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-13	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT	8-16	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					

FIGURE 3.19
Vehicle Alignment Record

450008

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT-1

ALIGNMENT RECORD - VEHICLE No 1402

450008

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-in Left	Toe-in Right	Toe-in Total	Rear Wheels Camber Left	Camber Right	Toe-in Left	Toe-in Right	Toe-in Total
BS 1.1	7-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-20	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
BI 2.1	7-23	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-7	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-13	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

450006

DAY-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

ALIGNMENT RECORD · VEHICLE No 1403

450006

RUN/CIRC	84 DATE MILES	FRONT WHEELS CAMBER LEFT	CAMBER RIGHT	CASTER LEFT	CASTER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOE-IN TOTAL	REAR WHEELS CAMBER LEFT	CAMBER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOE-IN TOTAL
BS 1.1	7-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-19	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
BI 2.1	7-23	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+2 3/4°	+3°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3 1/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3 1/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
2	8-7	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-9	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-13	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-15	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
EOT	8-16	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					

FIGURE 3.19
Vehicle Alignment Record

450008

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT - 1

ALIGNMENT RECORD - VEHICLE No. 1403

450008

Run / Circ	Date / Miles	Front Wheels Camber Left	Front Wheels Camber Right	Front Wheels Caster Left	Front Wheels Caster Right	Front Wheels Toe-In Left	Front Wheels Toe-In Right	Front Wheels Toe-In Total	Rear Wheels Camber Left	Rear Wheels Camber Right	Rear Wheels Toe-In Left	Rear Wheels Toe-In Right	Rear Wheels Toe-In Total
BI 1.1	7-18-84	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-20	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BI 2.1	7-23	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-1	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-3	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-7	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-13	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

450006

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DAY-1

ALIGNMENT RECORD · VEHICLE No 1404

450006

RUN/CIRC	84 DATE MILES	FRONT WHEELS CAMBER LEFT	CAMBER RIGHT	CASTER LEFT	CASTER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOE-IN TOTAL	REAR WHEELS CAMBER LEFT	CAMBER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOE-IN TOTAL
BI 1.1	7-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-19	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
BI 2.1	7-23	+1/2°	+1/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8					
.2	7-26	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-1	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-3	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-7	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-13	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"	HIT	DEER			
EOT	8-16	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					

FIGURE 3.19
Vehicle Alignment Record

450008

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT - 1

ALIGNMENT RECORD - VEHICLE No 1404

450008

Run / Circ	Date / Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BI 1.1	7-18	+1/2°	+1/2°	+2 3/4°	+2 3/4°	+1/16"	+1/16"	+1/8"					
1.2	7-20	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BI 2.1	7-23	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	8-7	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+2 3/4°	+1/16	+1/16	+1/8"					
2	8-13	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16	+1/8"					
.2	8-15	+1/2°	+1/2°	+3°	+2 3/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

140007

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DAY - 2

ALLIGNMENT RECORD - VEHICLE No 1405

140007

Run / Circ	Date / Miles	Front Wheels Camber Left	Front Wheels Camber Right	Front Wheels Caster Left	Front Wheels Caster Right	Front Wheels Toe-In Left	Front Wheels Toe-In Right	Front Wheels Toe-In Total	Rear Wheels Camber Left	Rear Wheels Camber Right	Rear Wheels Toe-In Left	Rear Wheels Toe-In Right	Rear Wheels Toe-In Total
BI 1.1	7-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-19	+1/2°	+1/4°	+3°	3°	+1/16"	+1/16"	+1/8"					
BI 2.1	7-23	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16	+1/8"					
2.1	7-27	+1/2°	+1/2°	+2 3/4	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-7	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-9	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-13	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-15	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT	8-16	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					

FIGURE 3.19
Vehicle Alignment Record

450009

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT-2

ALIGNMENT RECORD - VEHICLE No 1405

450009

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BI 1.1	7-18	+1/2°	+1/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-20	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16	+1/8"					
BI 2.1	7-23	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-7	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-13	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

450007

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DAY 2

ALIGNMENT RECORD - VEHICLE No 1706

450007

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 1.1	7-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-19	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
BS 2.1	7-23	+1/2°	+1/2°	+3°	+3°	+1/16"		+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-7	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-13	+1/2°	+1/8	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	1/8"					
EOT	8-16	+1/2°	+1/8	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					

FIGURE 3.19
Vehicle Alignment Record

450009

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San Antonio, Texas 78284

NIGHT-2

ALIGNMENT RECORD - VEHICLE No 1406

450009

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 1.1	7-18	±1/2°	±1/2°	±3°	±3°	±1/16"	±1/16"	1/8"					
1.2	7-20	±1/2°	±1/2°	±3°	±3 1/4	±1/16"	±1/16"	±1/8"					
BI 2.1	7-23	±1/2°	±1/2°	±3°	±3°	±1/16"	±1/16"	±1/8"					
2.2	7-24	±1/2°	±1/2°	±3°	±3°	±1/16"	±1/16"	±1/8"					
1.1	7-25	±1/2°	±1/2°	±3°	±3°	±1/16"	±1/16"	±1/8"					
.2	7-26	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
2.1	7-27	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
.2	7-30	±1/2°	±1/2°	±3°	±3°	±1/16"	±1/16"	±1/8"					
3.1	7-31	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
2	8-1	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8°					
4.1	8-2	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
2	8-3	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
5.1	8-6	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8					
2	8-7	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
6.1	8-8	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
.2	8-9	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
7.1	8-10	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
2	8-13	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
8.1	8-14	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
.2	8-14	±1/2°	±1/2°	±3°	±3 1/4°	±1/16"	±1/16"	±1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

+S0007

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San Antonio, Texas 78284

DAY-2

4S0007

ALIGNMENT RECORD - VEHICLE No 1407

Run/Circ.	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 1.1	7-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-19	+1/2"	+1/2"	+3°	+3°	+1/16"	+1/16"	+1/8"					
BI 2.1	7-23	+1/2"	+1/2"	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+3/4°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
3.1	7-31	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-7	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
2	8-13	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
EOT	8-16	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					

FIGURE 3.19
Vehicle Alignment Record

450009

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San Antonio, Texas 78284

NIGHT - 2

450009

ALIGNMENT RECORD - VEHICLE No 1407

RUN/CIRC	DATE MILES	FRONT WHEELS CAMBER LEFT	CAMBER RIGHT	CASTER LEFT	CASTER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOE-IN TOTAL	REAR WHEELS CAMBER LEFT	CAMBER RIGHT	TOE-IN LEFT	TOE-IN RIGHT	TOE-IN TOTAL
BS 1.1	7-18	+1/2°	+1/2°	+3°	+3 1/4°	+ 1/16"	+1/16"	+ 1/8"					
1.2	7-20	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+ 1/8"					
BI 2.1	7-23	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+ 1/8"					
2.2	7-24	+1/2°	+1/2°	+ 3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2.1	7-31	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-1	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-3	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-7	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3 1/4°	+3 1/4°	+1/16"	+1/16"	+1/8"					
2	8-9	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
2	8-13	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3 1/4°	+3°	+1/16"	+1/16"	+1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

450007

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

DAY 2

ALIGNMENT RECORD - VEHICLE No 1406

450007

Run / Circ	Date / Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
B5.1	7-18	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-19	+1/2°	+1/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
B1.2	7-23	+1/2°	+1/4°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.2	7-24	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.1	7-25	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-26	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-27	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	7-30	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
2.1	7-31	+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
.2	8-1	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
4.1	8-2	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-3	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
5.1	8-6	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-7	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
6.1	8-8	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-9	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
7.1	8-10	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-13	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
8.1	8-14	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
.2	8-15	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
EOT	8-16	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					

FIGURE 3.19
Vehicle Alignment Record

450009

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

NIGHT-2

ALIGNMENT RECORD - VEHICLE No 1406

450009

Run/Circ	Date Miles	Front Wheels Camber Left	Camber Right	Caster Left	Caster Right	Toe-In Left	Toe-In Right	Toe-In Total	Rear Wheels Camber Left	Camber Right	Toe-In Left	Toe-In Right	Toe-In Total
BS 1.1	7-18	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
1.2	7-20	±½°	±½°	±3°	±3°	±1/16"	±1/16"	±1/8"					
BS 2.1	7-23	±½°	±½°	±3°	±3°	±1/16"	±1/16"	±1/8"					
2.2	7-24	±½°	±½°	±3°	±3°	±1/16"	±1/16"	±1/8"					
1.1	7-25	±½°	±½°	±3°	±3°	±1/16"	±1/16"	±1/8"					
.2	7-26	±½°	±½°	±3°	±3°	±1/16"	±1/16"	±1/8"					
2.1	7-27	±½°	±½°	±3°	±3°	±1/16"	±1/16"	±1/8"					
.2	7-30	±½°	±½°	±3°	±3°	±1/16"	±1/16"	±1/8"					
3.1	7-31	±½°	±½°	±3°	±3°	±1/16"	±1/16"	±1/8"					
2	8-1	±½°	±½°	±3°	±3°	±1/16"	±1/16"	±1/8"					
4.1	8-2	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
2	8-3	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
5.1	8-6	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
2	8-7	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
6.1	8-8	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
.2	8-9	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
7.1	8-10	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
2	8-13	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
8.1	8-14	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
.2	8-15	±½°	±½°	±3°	±3¼°	±1/16"	±1/16"	±1/8"					
EOT													

FIGURE 3.19
Vehicle Alignment Record

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

ALIGNMENT RECORD - VEHICLE No 1409

Run/Circ	Date Miles	Front Wheels Camber Left	Front Wheels Camber Right	Front Wheels Caster Left	Front Wheels Caster Right	Front Wheels Toe-in Left	Front Wheels Toe-in Right	Front Wheels Toe-in Total	Rear Wheels Camber Left	Rear Wheels Camber Right	Rear Wheels Toe-in Left	Rear Wheels Toe-in Right	Rear Wheels Toe-in Total
BI 1.1		+1/2°	+1/2°	+3°	+3°	+1/16"	+1/16"	+1/8"					
1.2	7-20 1406	+1/2°	+1/2°	+3°	+3 1/4°	+1/16"	+1/16"	+1/8"					
BI 2.1													
2.2													
1.1													
.2													
2.1													
.2													
2.1													
.2													
4.													
.2													
5.1													
.2													
6.1													
.2													
7.1													
.2													
8.													
.2													
EOT													

FIGURE 3.19
Vehicle Alignment Record

WHEEL LOADS

PHASE III

450006

DAY-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Page: 450006

Load Record - Vehicle 1401

Project:

Convoy/Test				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1041		1041		1036		1031
	2		1039		1040		1035		1032
BI 2	1		1035		1041		1038		1031
	2		1041		1039		1040		1032
1	1		1039		1037		1038		1034
	2		1041		1041		1036		1035
2	1		1040		1039		1034		1036
	2		1040		1041		1041		1032
3	1		1038		1040		1034		1034
	2		1037		1041		1032		1032
4	1		1038		1041		1035		1032
	2		1040		1040		1038		1032
5	1		1038		1041		1036		1033
	2		1040		1038		1041		1031
6	1		1038		1039		1040		1033
	2		1038		1039		1038		1031
7	1		1039		1041		1036		1032
	2		1039		1039		1040		1033
8	1		1039		1037		1041		1033
	2		1034		1039		1036		1033

1401

FIGURE 3.18
Ve[illegible]e Load Record

B127

450006

Date:

[illegible]nature:

450008

NIGHT-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Load Record - Vehicle 1401

Project:

Convoy/Test				Loads		Max.		Min.	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1040		1040		1041		1034
	2		1040		1039		1038		1036
BI 2	1		1039		1040		1037		1037
	2		1040		1037		1039		1031
1	1		1040		1039		1036		1035
	2		1041		1040		1039		1041
2	1		1040		1038		1037		1041
	2		1041		1040		1036		1031
3	1		1039		1037		1034		1033
	2		1037		1041		1036		1033
4	1		1039		1040		1039		1031
	2		1039		1041		1039		1032
5	1		1041		1041		1034		1030
	2		1040		1038		1038		1034
6	1		1041		1039		1038		1032
	2		1037		1039		1041		1035
7	1		1035		1040		1039		1036
	2		1039		1039		1039		1036
8	1		1041		1039		1041		1035
	2		1040		1038		1035		1031
									1401

FIGURE 3.18
Vehicle Load Record

Date:

450008

450006 DAY-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Page

Load Record - Vehicle 1402

Project:

Convoy/Test				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1032		1031		1032		1039
	2		1032		1033		1032		1035
BI 2	1		1031		1032		1032		1034
	2		1032		1032		1031		1035
1	1		1035		1031		1036		1037
	2		1034		1033		1034		1041
2	1		1032		1038		1035		1041
	2		1032		1032		1033		1039
3	1		1034		1031		1037		1038
	2		1035		1031		1031		1039
4	1		1034		1036		1033		1039
	2		1033		1033		1037		1036
5	1		1034		1031		1035		1038
	2		1032		1034		1035		1039
6	1		1033		1032		1033		1036
	2		1033		1032		1034		1038
7	1		1035		1031		1036		1038
	2		1034		1032		1036		1038
8	1		1033		1033		1038		1036
	2		1032		1032		1031		1035

1402

FIGURE 3.18
Ve[illegible]e Load Record

450006

450008

NIGHT-1

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San Antonio, Texas 78284

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Project:

Load Record - Vehicle 1402

Convoy/Test				Loads		Max.		Min.	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1033		1031		1031		1037
	2		1033		1032		1032		1036
BI 2	1		1031		1031		1032		1040
	2		1031		1032		1034		1035
1	1		1032		1034		1033		1036
	2		1034		1034		1039		1041
2	1		1033		1036		1039		1040
	2		1031		1031		1032		1037
3	1		1033		1032		1034		1035
	2		1033		1032		1032		1039
4	1		1034		1036		1031		1039
	2		1033		1031		1036		1038
5	1		1033		1031		1035		1038
	2		1034		1032		1037		1040
6	1		1034		1032		1035		1039
	2		1031		1034		1038		1038
7	1		1033		1032		1039		1040
	2		1036		1031		1032		1037
8	1		1031		1033		1031		1039
	2		1031		1033		1032		1035
									1402

FIGURE 3.18
Vehicle Load Record

450008

450006 DAY-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Load Record - Vehicle 1403

Project:

Convoy/Test				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1034		1035		1032		1032
	2		1037		1031		1031		1037
BI 2	1		1033		1040		1032		1032
	2		1040		1036		1031		1035
1	1		1033		1038		1034		1032
	2		1038		1038		1031		1036
2	1		1040		1034		1031		1033
	2		1034		1031		1032		1033
3	1		1035		1032		1033		1036
	2		1039		1032		1032		1032
4	1		1038		1033		1031		1034
	2		1036		1033		1031		1036
5	1		1038		1031		1032		1034
	2		1038		1033		1033		1032
6	1		1040		1030		1032		1033
	2		1039		1032		1032		1031
7	1		1031		1035		1031		1032
	2		1032		1031		1040		1034
8	1		1034		1032		1038		1037
	2		1032		1033		1031		1031
									1403

FIGURE 3.18
Vehicle Load Record

450006

450008

NIGHT-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project:

Load Record - Vehicle 1403

Convoy/Test				Loads		Max.		Min.	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1038		1033		1032		1031
	2		1035		1033		1031		1033
BI 2	1		1034		1031		1034		1031
	2		1040		1033		1033		1033
1	1		1036		1038		1031		1035
	2		1040		1034		1032		1031
2	1		1039		1035		1031		1032
	2		1036		1032		1033		1034
3	1		1032		1037		1031		1032
	2		1041		1033		1032		1032
4	1		1038		1036		1033		1033
	2		1038		1036		1034		1035
5	1		1039		1037		1031		1032
	2		1040		1033		1033		1031
6	1		1040		1032		1031		1035
	2		1039		1040		1034		1032
7	1		1041		1036		1037		1033
	2		1032		1032		1038		1031
8	1		1033		1034		1037		1035
	2		1036		1034		1031		1032
									1403

FIGURE 3.18
Vehicle Load Record

450008

450006

DAY-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Load Record - Vehicle 1404

Project:

Convoy/Test				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1035		1039		1040		1033
	2		1037		1041		1040		1035
BI 2	1		1041		1040		1041		1031
	2		1036		1040		1041		1039
1	1		1040		1039		1041		1040
	2		1034		1040		1041		1038
									/
2	1		1033		1040		1038		1039
	2		1033		1037		1039		1039
3	1		1034		1036		1039		1041
	2		1034		1040		1039		1037
4	1		1032		1039		1036		1035
	2		1038		1031		1040		1039
5	1		1037		1033		1038		1039
	2		1034		1037		1040		1032
6	1		1034		1034		1041		1031
	2		1038		1031		1040		1034
7	1		1031		1037		1040		1033
	2		1037		1035		1041		1035
8	1		1036		1038		1036		1039
	2		1033		1037		1038		1034

FIGURE 3.18

Ve[illegible] Load Record

1404

450006

[illegible]nature:

450008

NIGHT-1

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Load Record - Vehicle 1404

Project:

Convoy/Test				Loads		Max.		Min.	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1037		1038		1041		1037
	2		1038		1036		1041		1036
BI 2	1		1032		1033		1041		1036
	2		1037		1033		1040		1036
1	1		1037		1038		1040		1038
	2		1040		1041		1041		1039
2	1		1036		1040		1039		1040
	2		1040		1036		1041		1035
3	1		1031		1040		1032		1036
	2		1036		1038		1039		1037
4	1		1033		1039		1041		1038
	2		1038		1038		1039		1037
5	1		1037		1035		1038		1038
	2		1037		1034		1038		1034
6	1		1036		1033		1040		1031
	2		1037		1036		1038		1037
7	1		1036		1033		1040		1036
	2		1036		1036		1038		1040
8	1		1034		1035		1040		1039
	2		1034		1037		1038		1038
									1404

FIGURE 3.18
Vel[illegible]e Load Record

450008

Date:

450007

DAY-2

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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Load Record - Vehicle 1405

Project:

Convoy/Test				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1033		1036		1032		1040
	2		1034		1041		1031		1034
BI 2	1		1034		1039		1032		1037
	2		1032		1038		1031		1039
1	1		1041		1035		1031		1039
	2		1038		1037		1032		1038
2	1		1036		1040		1031		1032
	2		1036		1031		1032		1036
3	1		1037		1031		1031		1032
	2		1034		1035		1031		1031
4	1		1037		1031		1031		1036
	2		1033		1037		1031		1032
5	1		1038		1035		1032		1033
	2		1037		1037		1031		1032
6	1		1033		1032		1036		1031
	2		1035		1037		1032		1032
7	1		1038		1037		1031		1032
	2		1036		1036		1031		1036
8	1		1037		1035		1032		1034
	2		1034		1034		1031		1032
									1405

FIGURE 3.18

Vel e Load Record

B135

450007

Date:

nature:

450009

NIGHT - 2

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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Load Record - Vehicle 1405

Project:

Convoy/Test				Loads		Max.		Min.	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1036		1034		1031		1040
	2		1033		1038		1032		1039
BI 2	1		1034		1036		1033		1038
	2		1037		1036		1032		1038
1	1		1034		1038		1034		1036
	2		1038		1040		1033		1038
2	1		1037		1039		1033		1037
	2		1036		1037		1032		1032
3	1		1035		1031		1031		1032
	2		1034		1035		1031		1032
4	1		1031		1037		1031		1036
	2		1037		1038		1032		1037
5	1		1039		1036		1031		1037
	2		1037		1039		1033		1032
6	1		1031		1041		1034		1031
	2		1036		1038		1031		1032
7	1		1037		1038		1033		1031
	2		1037		1036		1034		1036
8	1		1035		1038		1032		1033
	2		1036		1036		1032		1032

1405

FIGURE 3.18
Vehicle Load Record

Date:

450009

490007

DAY-2

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San Antonio, Texas 78284

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Project:

Load Record - Vehicle 1406

Convoy/Test				Loads		Max.	1041	Min.	1031
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1035		1035		1031		1038
	2		1033		1036		1036		1031
BI 2	1		1038		1031		1033		1037
	2		1037		1031		1032		1040
1	1		1039		1036		1041		1032
	2		1038		1034		1038		1036
2	1		1041		1031		1031		1031
	2		1040		1033		1032		1031
3	1		1033		1034		1034		1031
	2		1039		1037		1034		1035
4	1		1041		1033		1037		1031
	2		1037		1034		1041		1031
5	1		1034		1032		1041		1034
	2		1040		1040		1039		1032
6	1		1040		1038		1039		1033
	2		1041		1034		1032		1035
7	1		1041		1038		1033		1031
	2		1037		1038		1036		1034
8	1		1035		1040		1036		1037
	2		1040		1033		1032		1034
									1406

FIGURE 3.18

Ve[illegible] e Load Record

B137

nature: 450007

450009

NIGHT-2

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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project:

Load Record - Vehicle 1406

Convoy/Test				Loads		Max.		Min.	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1039		1031		1033		1038
	2		1041		1033		1034		1034
BI 2	1		1040		1034		1032		1031
	2		1041		1034		1031		1035
1	1		1039		1035		1031		1036
	2		1040		1034		1032		1040
2	1		1041		1036		1033		1032
	2		1040		1036		1031		1031
3	1		1041		1031		1031		1040
	2		1039		1035		1035		1031
4	1		1039		1041		1032		1031
	2		1041		1035		1040		1033
5	1		1041		1038		1041		1032
	2		1040		1039		1034		1040
6	1		1040		1038		1039		1035
	2		1040		1039		1034		1032
7	1		1039		1035		1036		1031
	2		1039		1034		1032		1033
8	1		1038		1035		1033		1032
	2		1041		1035		1036		1031
									1406

FIGURE 3.18
Vehicle Load Record

450009

450007

Day - 2

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project:

Load Record - Vehicle 1407

Convoy/Test				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1040		1032		1040		1037
	2		1040		1031		1041		1040
BI 2	1		1041		1037		1041		1034
	2		1041		1036		1041		1040
1	1		1040		1037		1039		1041
	2		1038		1040		1040		1037
2	1		1041		1033		1041		1040
	2		1038		1033		1041		1036
3	1		1039		1031		1040		1038
	2		1040		1031		1039		1040
4	1		1036		1036		1040		1041
	2		1041		1037		1040		1040
5	1		1040		1033		1041		1040
	2		1039		1037		1040		1040
6	1		1038		1039		1041		1039
	2		1040		1032		1040		1037
7	1		1040		1032		1038		1034
	2		1036		1038		1041		1035
8	1		1035		1040		1038		1036
	2		1037		1031		1037		1032
									1407

-4 lbs Behind Pass Seat 8-7-84

FIGURE 3.18
Vehicle Load Record

450007

Date:

Signature:

450009

NIGHT - 2

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project:

Load Record - Vehicle 1407

Convoy/Test				Loads		Max.		Min.	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1039		1034		1040		1040
	2		1039		1036		1041		1036
BI 2	1		1040		1038		1039		1038
	2		1038		1040		1041		1038
1	1		1039		1038		1038		1036
	2		1041		1038		1040		1039
2	1		1040		1036		1041		1038
	2		1038		1035		1040		1040
3	1		1040		1035		1040		1039
	2		1038		1034		1041		1038
4	1		1031		1039		1041		1041
	2		1039		1039		1041		1040
5	1		1039		1039		1041		1040
	2		1040		1038		1040		1040
6	1		1039		1040		1041		1036
	2		1041		1032		1041		1038
7	1		1040		1033		1041		1039
	2		1039		1034		1038		1032
8	1		1036		1037		1040		1034
	2		1041		1037		1040		1036
									1407

FIGURE 3.18
Vehicle Load Record

Date:

~~1407~~ 450009

450007

DAY-2

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project:

Load Record - Vehicle 1408

Convoy/Test				Loads		Max. 1041		Min. 1031	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1039		1031		1040		1037
	2		1031		1037		1041		1036
BI 2	1		1031		1034		1040		1038
	2		1033		1033		1040		1037
1	1		1037		1035		1041		1040
	2		1035		1034		1041		1040
2	1		1032		1033		1037		1038
	2		1034		1033		1040		1040
3	1		1032		1031		1041		1038
	2		1035		1032		1036		1036
4	1		1033		1032		1039		1039
	2		1034		1032		1040		1036
5	1		1031		1034		1041		1040
	2		1035		1032		1041		1038
6	1		1037		1031		1039		1040
	2		1036		1032		1040		1037
7	1		1031		1034		1039		1041
	2		1035		1034		1040		1038
8	1		1032		1031		1039		1036
	2		1034		1032		1037		1034
									1408

FIGURE 3.18
Ve[illegible] e Load Record

450007

Date:

nature:

450009

NIGHT-2

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project:

Load Record - Vehicle 1408

Convoy/Test				Loads		Max.		Min.	
Prior to		LF		RF		LR		RR	
Run	Grc	From	To	From	To	From	To	From	To
BI 1	1		1039		1032		1039		1034
	2		1038		1032		1038		1038
BI 2	1		1039		1034		1036		1037
	2		1036		1032		1040		1038
1	1		1040		1031		1041		1040
	2		1038		1033		1040		1040
2	1		1039		1035		1039		1040
	2		1037		1034		1040		1038
3	1		1039		1034		1038		1037
	2		1033		1034		1041		1035
4	1		1033		1033		1041		1040
	2		1040		1031		1041		1038
5	1		1033		1035		1041		1040
	2		1039		1033		1038		1040
6	1		1037		1033		1040		1039
	2		1039		1032		1041		1037
7	1		1040		1033		1040		1038
	2		1034		1035		1039		1037
8	1		1034		1032		1035		1035
	2		1034		1034		1041		1033
									1408

FIGURE 3.18
Vehicle Load Record

450009

Date:

- CALIBRATION DATA
    - SPEED
    - INFLATION PRESSURE
    - TREAD DEPTH
    - TEMPERATURE
    - WHEEL LOADS

- CALIBRATION
  - SPEED

CERTIFICATE OF CALIBRATION

This is to certify that all applicable tests and measurements have been made on Model K-55, a "Doppler" Traffic Radar, Serial Numbers Readout Unit 1885 Antenna Unit 1885, manufactured by M.P.H. Industries, Inc., on 1-24-84 (date) as required by the Federal Communications Commission and that the aforestated radar meets and exceeds all specifications.

M.P.H. Industries, Inc.
15 S. Highland
Chanute, Kansas 66720
316-431-2830

Signed

FCC Form 574 (October 1982)
(This form replaces Form 400)

Federal Communications Commission
Gettysburg, PA 17325

Authorization

Page No. of

1)	1 Frequencies (MHz)	2 Station Class	3 No. of Units	4 Emission Designator	5 Output Power	6 E.R.P.	7 A.A.T.	8 Ground Elevation	9 Ant. Hgt. To Tip	10 Antenna Latitude	11 Antenna Longitude
G	10,525	MR	1	.1A0	.2						

12. Number of Mobiles By Category:

Vehicular 1
Portable
Aircraft
Marine
Pagers

13. Area of Operation for Mobiles, Temporary, or Itinerant Stations

is ____ miles radius of station A,

or is ____ miles radius of coordinates

Lat ____
Long ____

If not, please check one

- Countywide
- X Statewide Texas
- Nationwide
- Other (Specify below)

	14. Station Address or Geographic Location	15. City	16. County	17. State
A				
B				
C				
D				
E				
F				

18. Location of Primary Control Point (Include Telephone Number), and location of all Radio Control Stations with antenna under 20 Ft.

Southwest Research Institute
6220 Culebra Road
San Antonio, TX (512) 684-5111

19. Freq. Advisory Comm. No

20. Radio Service RS

21. Applicant/Licensee Name (See instructions)

Southwest Research Institute

22. Mailing Address (Number & Street, P.O. Box or Rt. No.):

PO Box 28510

23. City	24. State	25. ZIP Code
San Antonio	TX	78284

If the Stations authorized herein are not placed in operation within eight months this authorization becomes invalid and must be returned to the Commission for cancellation unless an extension of completion date has been authorized. (Exception being

DO NOT WRITE IN THIS BLOCK—FOR FCC USE ONLY

Call sign: KB43398 new File Number: 336157-RS-014

Antenna Painting & Lighting Specifications:

Special Conditions

This authorization is effective February 8, 1984

and will expire 3:00 AM EST February 8, 1989

Federal Communications Commission
1u Private Radio Bureau

B148

- CALIBRATION
  - INFLATION PRESSURE

SAN ANGELO CABINET #1

	ASCENDING	DESCENDING	
0	+.2	+.2	
10	10.2	10.2	NO. ADJ'MT
20	20.0	20.2	
30	30.1	30.1	
40	40.1	40.1	
50	50.0	50.0	
60	60.0	60.0	

CAL. IN VERTICAL POS.

27 JAN. 84
TECHN: B. MALONE

r^2: .9999945
a: +0.1667
b = 0.99714
@ 26 psi actual pressure
indicated pressure is 26.0924 psi
@ 26 psi indicated pressure
actual pressure is 25.9074 psi

2/1/84

Trouble.
Amatek RQ50
#8581

SAN ANGELO CABINET #2

	ASCENDING	DESCENDING	
0	-.1	-.1	
10	9.8	9.9	
20	19.9	19.9	NO ADJ'MT
30	29.9	29.9	
40	40.0	40.0	
50	50.1	50.1	
60	60.1	60.2	

CAL. IN VERTICAL POS.

27 JAN 84
TECHN: B. MALONE

r^2 = .9999988
a = -.2867
b = 1.00771
@ 26 psi actual pressure
indicated pressure is 25.914 psi.
@ 26 psi indicated pressure
actual pressure is 26.085 psi

2/1/84

Transcribed.
Armstrong PQSO
#8581

AMETEK
MANSFIELD & GREEN DIVISION

8600 SOMERSET DRIVE • LARGO, FLORIDA 33543 Telephone (813) 536-7831

CERTIFICATION OF ACCURACY
FROM
M & G STANDARDS LABORATORY

M & G Model [illegible] Purchase Order No. [illegible] Serial No. [illegible]

Certification Date: July 25, 1983 Recommended Recertification Date: July 25, 1984

Accuracy: The instrument is certified to be accurate within a maximum error of .10 % of indicated reading.

CERTIFICATION PROCEDURE

This Certification was made by direct comparison with Ametek/Mansfield & Green Laboratory master standards, which are periodically referred to one or more of the primary standards certified by the National Bureau of Standards on Report Numbers:

PISTON & CYLINDER AREA [illegible] EG

MODEL	SER. NO.	REPORT #'S
[illegible]	-	P-7807, P-7752, P-7833
[illegible]	-	P-7714, P-7800, P-7833
[illegible]	-	P-7[illegible], P-7686
10, T.P. [illegible], HL	.01 -	P-7791
	.02 -	P-7791
	.05 -	P-7791, P-7586
	.10 -	P-7[illegible]

[illegible] RELATIVE HUMIDITY

[illegible] #'S 737/0[illegible]-42, 737/0[illegible]-43

Pressure Readings Expressed At:

United States Mean Gravity — 980.000 Gals.

International Standard Gravity — 980.665 Gals.

Local Gravity [illegible] Gals.

Certified Correct

AMETEK
MANSFIELD & GREEN DIVISION

by [signature]
QUALITY ASSURANCE MANAGER

FORM 71-7 REV. 6 FEB. 1983

- CALIBRATION
  - TREAD GROOVE DEPTH

SOUTHWEST RESEARCH INSTITUTE

POST OFFICE DRAWER 28510 • 6220 CULEBRA ROAD • SAN ANTONIO, TEXAS, USA 78284 • (512) 684-5111 • TELEX 76-7357

SUBJECT: Inspection of TTEMP Calibration Blocks

This will certify that the subject gauges have been inspected and found to be accurate as shown:

Step	1	2	3	4	5
Block #1	.100	.202	.299	.400	.498
Block #2	.100	.199	.300	.400	.499

The tools and instruments used for this inspection are traceable to the National Bureau of Standards as evidenced by the documentation maintained in the laboratories of Southwest Research Insitute, San Antonio, Texas.

Inspected by R G Ward

Date 27 Jan. 84

28 Jan 84

SAN ANTONIO, TEXAS
WITH OFFICES IN HOUSTON, TEXAS, AND WASHINGTON, D.C.

- CALIBRATION
  - TEMPERATURES

STAND # BOB NYE HI 275° TEMPERATURE BATH RTD # 90122 TECHN. FHOGAN

LO 120° TEMPERATURE BATH RTD # 97923 DATE 5-2-84

THER. POS.	THER. NO.	BATH TEMP.	RTD READING	IND. TEMP	POT'OMETER READING	BATH TEMP.	RTD READING	IND'ED TEMP.	POT'OMETER TEMP.	ERROR A-B-C
1	K-102	275.08	151.80	273.14	5.489	120.02	118.94	118.48	1.942	C
2	K-101	275.08	151.80	275.50	5.542	120.02	118.94	118.65	1.946	B
3	K-103	275.08	151.80	274.92	5.529	120.02	118.94	119.26	1.960	B
4										
5										
6										
7										
8										
9										
10										
11										
12										
REF.										

PYROMETER

DATE: FEB 2, 84 TECHN: K. CASTLE + J. LUG.
SN: 31419

VISC. BATH	PYRO	
120	110	ADJ.

2nd RUN

VISC	PYRO
120	120
175	185
275	285

PROBE	PLATINUM PROBE SN	NBS
BATH PROBE		
120 — 120	97923	FEB. 19, 81
175 — 177	105662	SEPT. 18, 81
275 — 278	90122	1978

PROBE III BAD

Repaired and calibrated 2/2/84
see attached. RP 2/2/84

PROBE
11

BATH	PROBE	Platinum Probe SN	NBS
120	120	97923	FEB. 19, 81
175	176	105862	Sept 18, 81
275	276	90122	1978

DATE FEB 2, 84
TECHN. J. LUCIO
R. GARZA

PROBE T2 — FEB. 2, 1984

VISC. BATH	OMEGA READOUT
120	120
175	176
275	275

TECHN: J. LUGO
R. GARZA

Sub E 13

THERMOCOUPLE THERMOMETER

MODEL 727 F
S/N 723323
DATE FEB. 20, 1984
TECHN'S R. MALONE
R. GARZA

BIDDLE TESTER S/N 83341 NBS CERT. JAN. 11, 1983
RTD 275 - 90122 NBS CERT. DEC. 23, 1981
120 - 97923

32	32° F
100	99°
300	300°
200	200°
900	900°

WITH SUPPLIED TC

120	119
275	275

- CALIBRATION
  - WHEEL LOADS

Vehicle LOAD

1. Calibrated Dead weights 1/27/84
2. Calibrated Vehicle Scales 1/31/84

Scale Pos	NO	Corr Factor	@ 1200 LB
LF	28913	.999999	1200.9
RF	28916	.9999998	1201.2
LR	28915	.9999998	1201.2
RR	28917	.9999997	1201.2

SOUTHWEST RESEARCH INSTITUTE

San Antonio, Texas 78284

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VEHICLE WEIGHING SYSTEM, SAN ANGELO

DEAD WEIGHT CALIBRATION

SCALE POSITION _____ SERIAL NUMBER _____

	DEAD WEIGHTS				SCALE CALIBRATION			
					RUN	RUN	RUN	
WEIGHT	NOMINAL	ACTUAL(1)	CUM.		.1.	.2.	.3.	MEAN
1	128	129.6						
2	128	128.6						
3	128	128						
4	128	128.6						
5	55	50.4						
6	55	54.8						
7	55	54.4						
8	55	54.4						
9	55	55.4						
10	55	57.4						
11	128	127.4						
12	128	129						
13	128	127.8						
14	55	54.8						

CALCULATION OF ACTUAL $L = a + b \cdot L_I$

WHEN ACTUAL LOAD, L, IS INDICATED LOAD, L_I, IS

0 _____ intercept, a, =

1000 LBS _____ slope, b, =

_____ LBS (MAXIMUM) _____ correlation, r^2, =

(1) CALIBRATED AT SOUTHWEST RESEARCH INSTITUTE

SAN ANTONIO, TEXAS

ON TOLEDO ELECTRONIC BALANCE

MODEL 8134 SERIAL NUMBER 4030605

MODEL 2184 SERIAL NUMBER 1591688

DATE _____ SIGNED _____

Weighed Jan 27 1984 - By Don Rueda.
Logged & Recorded by Sandra Jones
Witnessed by [illegible] 1/27/84

Date: _____

Signature: _____

(SWR 17) Rev 6/75

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Page: _____

Project: _____

VEHICLE WEIGHING SYSTEM, SAN ANGELO

DEAD WEIGHT CALIBRATION

SCALE POSITION LEFT FRONT SERIAL NUMBER 28913

	DEAD WEIGHTS			SCALE CALIBRATION			
				RUN	RUN	RUN	
WEIGHT	NOMINAL	ACTUAL(1)	CUM.	.1.	.2.	.3.	MEAN
				Ø	Ø	Ø	
1	128	129.6	129.6	128	128	128	128
2	128	128.6	258.2	^ 256	257	^ 257	257
3	128	128.0	386.2	385	V 385	385	385
4	128	128.6	514.8	514	514	514	514
5	55	50.4	565.2	565	564	564	564
6	55	54.8	620.0	620	619	619	619
7	55	54.4	674.4	674	674	674	674
8	55	54.4	728.8	729	728	728	728
9	55	55.4	784.2	784	784	784	784
10	55	57.4	841.6	842	841	842	842
11	128	127.4	969.0	^ 970	969	^ 970	970
12	128	129.0	1098.0	1099	V 1098	1099	1099
13	128	127.8	1225.8	1227	1227	1226	1227
14	55	54.8	1280.6	1282	1281	1281	1281

CALCULATION OF ACTUAL $L = a + b \cdot L_I$

WHEN ACTUAL LOAD, L, IS INDICATED LOAD, L_I, IS

0	-2.1	intercept, a, =	-2.109
1000 LBS	1000.4	slope, b, =	1.00249
1280 LBS (MAXIMUM)	1281	correlation, r^2, =	.999999

(1) CALIBRATED AT SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS
ON TOLEDO ELECTRONIC BALANCE
MODEL 8134 SERIAL NUMBER 4030605
MODEL 2184 SERIAL NUMBER 1591688
DATE Jan 26, 1984 SIGNED [signature]

800 = 799.9
1200 = 1200.9

[signature] 2/1/84

B171

Date: _____ Signature: _____

(SwRI 171) Rev 6/75

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78234

Page: _____

Project: _____

VEHICLE WEIGHING SYSTEM, SAN ANGELO

DEAD WEIGHT CALIBRATION

SCALE POSITION LEFT REAR SERIAL NUMBER 28915

	DEAD WEIGHTS				SCALE CALIBRATION			
					RUN	RUN	RUN	
WEIGHT	NOMINAL	ACTUAL(1)	CUM.		.1.	.2.	.3.	MEAN
					∅	∅	∅	
1	128	129.6	129.6		129	129	129	129
2	128	128.6	258.2		258	258	258	258
3	128	128.0	386.2		^ 386	386	^ 386	386
4	128	128.6	514.8		515	✓ 514	515	515
5	55	50.4	565.2		565	565	565	565
6	55	54.8	620.0		620	620	620	620
7	55	54.4	674.4		675	674	675	675
8	55	54.4	728.8		729	729	729	729
9	55	55.4	784.2		785	785	785	785
10	55	57.4	841.6		^ 842	842	^ 842	842
11	128	127.4	969.0		970	✓ 969	970	970
12	128	129.0	1098.0		1099	1099	1099	1099
13	128	127.8	1225.8		1227	1227	1227	1227
14	55	54.8	1280.6		1282	1282	1282	1282

CALCULATION OF ACTUAL $L = a + b \cdot L_I$

WHEN ACTUAL LOAD, L, IS INDICATED LOAD, L_I, IS

0	-1.0
1000 LBS	1.00087
1280.7 LBS (MAXIMUM)	1282

intercept, a, = -.80995

slope, b, = 1.00168

correlation, r^2, = .9999998

(1) CALIBRATED AT SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS
ON TOLEDO ELECTRONIC BALANCE
MODEL 8134 SERIAL NUMBER 4030605
MODEL 2184 SERIAL NUMBER 1591688
DATE Jan 26, 1986 SIGNED [signature]

800# = 800.535
1200# = 1201.207

Date: _____

B172

Signature: _____

(SwRI 171) Rev 6/75

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San Antonio, Texas 78234

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VEHICLE WEIGHING SYSTEM, SAN ANGELO

DEAD WEIGHT CALIBRATION

SCALE POSITION RIGHT FRONT SERIAL NUMBER 28916

	DEAD WEIGHTS			SCALE CALIBRATION			
WEIGHT	NOMINAL	ACTUAL(1)	CUM.	RUN .1.	RUN .2.	RUN .3.	MEAN
				ø	ø	ø	
1	128	129.6	129.6	129	129	129	129
2	128	128.6	258.2	258	258	258	258
3	128	128.0	386.2	386	386	386	386
4	128	128.6	514.8	515	515	515	515
5	55	50.4	565.2	565	565	565	565
6	55	54.8	620.0	620	620	620	620
7	55	54.4	674.4	675	675	675	675
8	55	54.4	728.8	729	729	729	729
9	55	55.4	784.2	785	785	785	785
10	55	57.4	841.6	842	842	842	842
11	128	127.4	969.0	970	970	970	970
12	128	129.0	1098.0	1099	1099	1099	1099
13	128	127.8	1225.8	1227	1227	1227	1227
14	55	54.8	1280.6	1282	1282	1282	1282

CALCULATION OF ACTUAL $L = a + b \cdot L_I$

WHEN ACTUAL LOAD, L, IS INDICATED LOAD, L_I, IS

0	101.0	intercept, a, = -0.80995
1000 LBS	1001	slope, b, = 1.00168
1280.7 LBS (MAXIMUM)	1282	correlation, r^2, = .999998

(1) CALIBRATED AT SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS
ON TOLEDO ELECTRONIC BALANCE
MODEL 8134 SERIAL NUMBER 4030605
MODEL 2184 SERIAL NUMBER 1591688
DATE Jan 26, 1984 SIGNED

800# = 800.5
1200# = 1201.2

3/7/84

Date:

Signature:

(SwRI 17) Rev 6/75

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: _____

VEHICLE WEIGHING SYSTEM, SAN ANGELO

DEAD WEIGHT CALIBRATION

SCALE POSITION RIGHT REAR SERIAL NUMBER 28917

	DEAD WEIGHTS				SCALE CALIBRATION			
					RUN	RUN	RUN	
WEIGHT	NOMINAL	ACTUAL(1)	CUM.		.1.	.2.	.3.	MEAN
					Ø	Ø	Ø	
1	128	129.6	129.6		130	130	130	130
2	128	128.6	258.2	↑	259	259 ^	259	259
3	128	128.0	386.2		387 ↓	386	387	387
4	128	128.6	514.8		515	515	515	515
5	55	50.4	565.2		566	566	566	566
6	55	54.8	620.0		621	621	621	621
7	55	54.4	674.4		675	675	675	675
8	55	54.4	728.8		730	729	730	730
9	55	55.4	784.2		785	785	785	785
10	55	57.4	841.6		843	842	843	843
11	128	127.4	969.0	↑	970	970 ^	970	970
12	128	129.0	1098.0		1099 ↓	1099	1099	1099
13	128	127.8	1225.8		1227	1227	1227	1227
14	55	54.8	1280.6		1282	1282	1282	1282

CALCULATION OF ACTUAL $L = a + b \cdot L_I$

WHEN ACTUAL LOAD, L, IS INDICATED LOAD, L_I, IS

0	0	intercept, a, = +.3927
1000 LBS	1001	slope, b, = 1.0007
1281.0 LBS (MAXIMUM)	1282	correlation, r^2, = .999997

(1) CALIBRATED AT SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS
ON TOLEDO ELECTRONIC BALANCE
MODEL 8134 SERIAL NUMBER 4030605
MODEL 2184 SERIAL NUMBER 1591688
DATE Jan 26, 1984 SIGNED [signature]

L $\sqrt{L}$
800 = 801.0
1200 = 1201.2

[signature] 7/1/84

Date: _____

Signature: _____

DRIVER CODES

TABLE 4.1

DRIVER ASSIGNMENTS AND REPLACEMENTS

Phase	Test	Driver Code, By Convoy Position 1	2	3	4
I	4S0001	01	02	03	04
	4S0002	05 (a) 19 (b)	06	07	08
	4S0003	10	11	12	13 (c) 15 (d) 20 (e)
	4S0004	14	16	17	18
II	4S0005	01	04	--	--
III	4S0006	01	22 (m)	03	04
	4S0007	19	23 (m)	24 (m)	08 (f) 29 (g)
	4S0008	10	25 (m)	12	26(m)(h) 20 (i) 21 (j) 28 (k) 27 (l)
	4S0009	16 (m)	30 (m)	09 (m)	15 (m)

(a) Through Run 4/1, Medical
(b) From Run 4/2 to test end; then to Phase III
(c) Through Run 3/2, New Employment
(d) Filled in Run 4/1 only; then permanent Phase III
(e) From Run 4/2 to test end
(f) Through Run 7/1, Medical
(g) From Run 7/2 to test end
(h) Through BI 1/2, Dependability
(i) Filled in Run BI 2/1 only; Not available
(j) From Run BI 2/2 through Run 1.2; Medical
(k) From Run 2.1 through Run 6.2, Dependability
(l) From Run 7.1 to test end
(m) Replacement because Phase I personnel no longer available

Drivers

Code	Name	Former Code (1)	Assignment Car	Pos	Phase
01	E McCarty	A	1	1	I, II, III
02	N. Eggleston	B	1	2	I
03	J. Trevino	C	1	3	I, III
04	B. Shannon	D	1	4	I, III
	-	-	-	2	II
05	W. Smith	E	2	1	I
06	E. Walton	F	2	2	I
07	C. Wagner	G	2	3	I
08	W. Ordway	H	2	4	I, III
09	D. O'Diorne	I	4	3	III
10	L. Childers	J	3	1	I, III
11	O. Kraut	K	3	2	I
12	V. Parker	L	3	3	I, III
13	K. Cole	M	3	4	I
14	J. McCoy	N	4	1	I
15	L. Dowdle	O	3, 4	4	I, III
16	P. Tatum	P	4,	2, 1	I, III
17	L. Reyes	Q	4	3	I
18	S. O'Brien	R	4	4	I
19	L. Wardlow	S	2	1	I, III
20	N. Kadlacek	T	3	4	I, III
21	R. Eastman	U	3	4	III
22	R. Weldon	V	1	2	III
23	O. Hall	W	2	2	III
24	P. Wilbanks	X	2	3	III
25	J. Zak	Y	3	2	III
26	L. Denton	Z	3	4	III
27	M. McDowell	-	3	4	III
28	B. Mitchell	-	3	4	III
29	M. Gill	-	2	4	III
30	E. Tennyson	-	4	2	III

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: 08-7928-003

TEST NO 450001

Run	1401 Grp-Dev	1402 Grp-Dev	1403 Grp-Dev	1404 Grp-Dev	NOTES
BI 1.1	X 01	M 02	G 03	B 04	
.2	04	01	02	03	
BI 2.1	03	04	01	02	
.2	02	03	04	01	
1.1	M 01	G 02	B 03	X 04	
.2	04	01	02	03	
2.1	03	04	01	02	
.2	02	03	04	01	
3.1	G 01	B 02	X 03	M 04	
.2	04	01	02	03	
4.1	03	04	01	02	
.2	02	03	04	01	
5.1	B 01	X 02	M 03	G 04	
.2	04	01	02	03	
6.1	03	04	01	02	
.2	02	03	04	01	
7.1	X 01	M 02	G 03	B 04	
.2	04	01	02	03	
8.1	03	04	01	02	
.2	02	03	04	01	

Date: _____

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Signature: _____

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San Antonio, Texas 78284

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Project: 08-1928-003

TEST NO 450002

Run	1405 Grp-Drv	1406 Grp-Drv	1407 Grp-Drv	1408 Grp-Drv	NOTES
BI 1.1	X 05	M 06	G 07	B 08	
.2	08	05	06	07	
BI 2.1	07	08	05	06	
.2	06	07	08	05	
1.1	M 05	G 06	B 07	X 08	
.2	[illegible]	05	06	07	
2.1	07	[illegible]	05	06	
.2	[illegible]	07	08	05	
3.1	G 05	B [illegible]	X 07	M 08	
.2	08	05	06	07	
4.1	07	08	05	06	
.2	[illegible]	07	08	19	
5.1	B 19	X [illegible]	M 07	G 08	
.2	[illegible]	19	[illegible]	07	
6.1	07	08	19	06	
.2	[illegible]	07	08	19	
7.1	X 19	M [illegible]	G 07	B 08	
.2	08	19	06	07	
8.1	[illegible]	[illegible]	19	06	
.2	[illegible]	07	08	19	

Date: _____

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Signature: _____

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San Antonio, Texas 78284

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Project: 08-7928-003

TEST NO 4S0003

RUN	1401 GRP-DEV	1402 GRP-DEV	1403 GRP-DEV	1404 GRP-DEV	NOTES
BI 1.1	X 10	M 11	G 12	B 13	
.2	13	10	11	12	
BI 2.1	12	13	10	11	
.2	11	12	13	10	
1.1	M 10	G 11	B 12	X 13	
.2	13	10	11	12	
2.1	10	13	10	11	
.2	11	12	13	10	
3.1	G 10	B 11	X 12	M 13	
.2	13	10	11	12	
4.1	12	15	10	11	
.2	11	12	20	10	
5.1	B 10	X 11	M 12	G 20	
.2	20	10	11	12	
6.1	12	20	10	11	
.2	11	12	20	10	
7.1	X 10	M 11	G 12	B 20	
.2	20	10	11	12	
8.1	12	20	10	11	
.2	11	12	20	10	

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Signature: _____

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San Antonio, Texas 78284

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Project: 08-7928-003

TEST NO 450004

Run	1405 Grp-Drv	1406 Grp-Drv	1407 Grp-Drv	1408 Grp-Drv	NOTES
BI 1.1	X 14	M 15	G 17	B 18	
.2	18	14	16	17	
BI 2.1	17	17	14	16	
.2	16	17	18	14	
1.1	M 16	G 16	B 17	X 18	
.2	18	14	16	17	
2.1	17	18	14	16	
.2	16	17	18	14	
3.1	G 16	B 16	X 17	M 17	
.2	18	14	16	17	
4.1	17	18	14	16	
.2	16	17	18	14	
5.1	B 16	X 16	M 17	G 18	
.2	18	14	16	17	
6.1	17	18	14	16	
.2	16	17	18	14	
7.1	X 16	M 16	G 17	B 18	
.2	18	14	16	17	
8.1	17	18	14	16	
.2	16	17	18	14	

Date: _____

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Project: 08-7928-003

TEST NO 4J0006

Run	1401 Grp-Drv	1402 Grp-Drv	1403 Grp-Drv	1404 Grp-Drv	NOTES
BI 1.1	X 01	M 22	G 03	B 04	
.2	04	01	22	03	
BI 2.1	03	04	01	22	
.2	22	03	04	01	
1.1	M 01	G 22	B 03	X 04	
.2	04	01	22	03	
2.1	03	04	01	22	
.2	22	03	04	01	
3.1	G 01	B 22	X 03	M 04	
.2	04	01	22	03	
4.1	03	04	01	22	
.2	22	03	04	01	
5.1	B 01	X 22	M 03	G 04	
.2	04	01	22	03	
6.1	03	04	01	22	
.2	22	03	04	01	
7.1	X 01	M 22	G 03	B 04	
.2	04	01	22	03	
8.1	03	04	01	22	
.2	22	03	04	01	

Date: _____ Signature: _____

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Project: 08-7928-003

TEST NO 450007

Run	1405 Grp-Dev	1406 Grp-Dev	1407 Grp-Dev	1408 Grp-Dev	NOTES
BI 1.1	X 19	M 23	G 24	B 08	
.2	08	* 19	23	24	
BI 2.1	24	08	19	23	
.2	23	24	08	19	
1.1	M 19	G 23	B 24	X 08	
.2	08	19	23	24	
2.1	24	08	19	23	
.2	23	24	08	19	
3.1	G 19	B 23	X 24	M 08	
.2	08	19	23	24	
4.1	24	08	19	23	
.2	23	24	08	19	
5.1	B 19	X 23	M 24	G 08	
.2	08	19	23	24	
6.1	24	08	19	23	
.2	23	24	08	19	
7.1	X 19	M 23	G 24	B 08	
.2	29	19	23	24	
8.1	24	29	19	23	
.2	23	24	29	19	

* VEHICLE 1406 (MECHANICAL [illegible]) at 130 miles. Repaired [illegible] to complete Run to SN 6 (275 mi) on 7/19. [illegible] (125 mi) 1409 on 7/20. Veh 1406 returned [illegible] for BI 2.1 on 7/[illegible]

Date: _____

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Project: 08-7928.003

TEST NO 450008

	1401	1402	1403	1404	NOTES
RUN	GRP-DEV	GRP-DEV	GRP-DEV	GRP-DEV	
BI 1.1	X 10	M 25	G 12	B 26	
.2	26	10	25	12	
BI 2.1	12	20	10	25	
.2	25	12	21	10	
1.1	M 10	G 25	B 12	X 27	
.2	27	10	25	12	
2.1	12	26	10	25	
.2	25	12	28	10	
3.1	G 10	B 25	X 12	M 28	
.2	28	10	25	*12	
4.1	12	28	10	25	
.2	25	12	28	10	
5.1	B 10	X 25	M 12	G 28	
.2	28	10	25	12	
6.1	12	28	10	25	
.2	25	12	28	10	
7.1	X 10	M 25	G 12	B 27	
.2	27	10	25	12	
8.1	12	27	10	25	
.2	25	12	27	10	

* VEHICLE 1404 (one wheel [illegible]) at 113 miles. Replaced with 1409 and Run 4, completed [illegible] (8/1/84).

Date: _____ Signature: _____

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Project: 08-7928-003

TEST NO 450009

Run	1405 Grp-Drv	1406 Grp-Drv	1407 Grp-Drv	1408 Grp-Drv	Notes
BI 1.1	X 16	M 30	G 09	B 15	
.2	15	16	30	09	
BI 2.1	09	15	16	30	
.2	30	09	15	16	
1.1	M 16	G 30	B 09	X 15	
.2	15	16	30	09	
2.1	09	15	16	30	
.2	30	09	15	16	
3.1	G 16	B 30	X 09	M 15	
.2	15	16	30	09	
4.1	09	15	16	30	
.2	30	09	15	16	
5.1	B 16	X 30	M 09	G 15	
.2	15	16	30	09	
6.1	09	15	16	30	
.2	30	09	15	16	
7.1	X 16	M 30	G 09	B 15	
.2	15	16	30	09	
8.1	09	15	16	30	
.2	30	09	15	16	

Date: _____ Signature: _____

APPENDIX C

LABORATORY RECORDS

San Angelo Weather

Measurement Room Environment

J. Bascunana's Memorandum

FEB 1984
SAN ANGELO, TEXAS
NAT'L WEA SER OFC
RT. 5, BOX 5235

ISSN 0198-5175

LOCAL CLIMATOLOGICAL DATA
Monthly Summary

MATHIS FIELD

LATITUDE 31°22' LONGITUDE 100°30' ELEVATION (GROUND) 01903 FEET TIME ZONE CENTRAL 23034

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F HEATING (SEASON BEGINS WITH JUL) 7A	COOLING (SEASON BEGINS WITH JAN) 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0600 INCHES 9	PRECIPITATION WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 01908 FEET ABOVE M.S.L. 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	FASTEST MILE SPEED 16	DIRECTION 17	SUNSHINE MINUTES 18	PERCENT OF TOTAL POSSIBLE 19	SKY COVER (TENTHS) SUNRISE TO SUNSET 20	MIDNIGHT TO MIDNIGHT 21	DATE 22
01	60	35	48	1	38	17	0		0	0.00	0.0	28.090	20	10.9	11.5	16	19			3	3	01
02	64	37	51	4	35	14	0		0	0.00	0.0	28.020	25	6.6	13.7	24	36			7	7	02
03	71	26	49	2	25	16	0		0	0.00	0.0	28.030	22	7.3	7.8	15	20			0	0	03
04	62	35	49	2	25	16	0		0	0.00	0.0	28.130	01	6.3	9.3	17	02			0	0	04
05	65	28	47	-1	25	18	0		0	0.00	0.0	28.240	32	3.4	7.7	15	01			1	1	05
06	65	23	44	-4	26	21	0		0	0.00	0.0	28.270	20	5.3	7.0	12	23			0	0	06
07	66	35	51	3	26	14	0		0	0.00	0.0	28.170	18	10.3	10.7	17	20			0	0	07
08	65	44	55	7	43	10	0		0	0.00	0.0	28.090	18	14.4	15.3	29	17			8	5	08
09	75	43	59	11	35	6	0		0	0.00	0.0	28.040	23	8.4	9.1	16	21			0	2	09
10	80	44	62	13	38	3	0		0	0.00	0.0	27.900	20	10.4	11.4	17	18			9	4	10
11	77	57	67*	18	41	0	2		0	0.00	0.0	27.780	22	10.3	13.2	23	18			0	2	11
12	64	32	48	-1	21	17	0		0	0.00	0.0	27.930	26	6.3	8.1	15	29			2	2	12
13	75	33	54	5	17	11	0		0	0.00	0.0	27.930	24	6.6	8.1	13	25			1	0	13
14	81*	36	59	9	24	6	0		0	0.00	0.0	27.820	19	12.8	13.1	21	20			1	1	14
15	67	39	53	3	29	12	0		0	0.00	0.0	27.910	25	8.9	12.7	23	27			1	1	15
16	67	28	48	-2	26	17	0	8	0	0.00	0.0	28.075	11	0.8	3.9	8	21			0	2	16
17	74	35	55	5	47	10	0		0	0.00	0.0	27.830	18	13.0	15.4	29	19			6	6	17
18	70	38	54	4	20	11	0		0	T	0.0	27.935	31	5.6	10.3	20	23			1	3	18
19	51	35	43	-8	24	22	0		0	0.00	0.0	28.145	04	13.0	13.4	21	02			8	8	19
20	49	30	40	-11	28	25	0	1	T	0.24	0.9	28.220	36	6.8	8.6	22	36			9	7	20
21	60	25	43	-8	25	22	0		0	0.00	0.0	28.050	24	6.5	6.9	14	27			1	1	21
22	73	30	52	1	22	13	0		0	0.00	0.0	27.890	21	8.3	8.7	15	20			1	1	22
23	72	38	55	3	24	10	0		0	0.00	0.0	27.860	25	5.0	11.4	18	29			2	2	23
24	71	29	50	-2	26	15	0		0	0.00	0.0	28.005	21	6.9	7.7	13	23			0	1	24
25	75	43	59	7	45	6	0		0	0.00	0.0	27.705	18	19.0	19.2	26	18			5	4	25
26	65	38	52	0	35	13	0	1 3 5	0	0.30	0.0	27.680	29	19.0	22.0	35	28			6	6	26
27	53	32	43	-10	26	22	0		0	0.00	0.0	28.205	33	17.5	17.9	25	32			2	4	27
28	50	24	37*	-16	19	28	0		0	0.00	0.0	28.370	35	6.4	8.4	17	01			3	4	28
29	57	19*	38	-15	20	27	0		0	0.00	0.0	28.230	17	6.8	7.9	16	18			2	3	29
	SUM 1924	SUM 991				TOTAL 422	TOTAL 2	NUMBER OF DAYS		TOTAL 0.54	TOTAL 0.9	FOR THE MONTH: 28.020	23	4.6	11.0	35	28	TOTAL	% POS	SUM 79	SUM 80	
	AVG. 66.3	AVG. 34.2	AVG. 50.3	DEP. 0.6	AVG. 28.7	DEP. -18	DEP. 2	PRECIPITATION ≥ .01 INCH. 2		DEP. -0.30						DATE: 26		POSSIBLE	HOURS	AVG. 2.7	AVG. 2.8	

NUMBER OF DAYS				SEASON TO DATE	
MAXIMUM TEMP.		MINIMUM TEMP.		TOTAL	TOTAL
≥ 90°	≤ 32°	≤ 32°	≤ 0°	2331	2
0	0	12	0	DEP. 358	DEP. 2

SNOW, ICE PELLETS ≥ 1.0 INCH	0
THUNDERSTORMS	1
HEAVY FOG	0
CLEAR 21 PARTLY CLOUDY 4 CLOUDY 4	

GREATEST IN 24 HOURS AND DATES			
PRECIPITATION		SNOW, ICE PELLETS	
0.30	26	0.9	20

GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
T	20

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

L. Ray Hoxit
ACTING DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

OBSERVATIONS AT 3-HOUR INTERVALS

FEB 1984 23034
SAN ANGELO, TEXAS

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
FEB 1st											
03	10	55	25			41	39	37	86	22	11
06	5	UNL	25			37	36	35	93	22	6
09	10	4	8			38	37	35	89	23	8
12	1	UNL	25			48	44	39	71	20	9
15	0	UNL	30			60	51	42	52	19	13
18	0	UNL	30			54	48	41	62	19	12
21	0	UNL	30			48	44	40	74	18	8
24	0	UNL	25			45	43	41	86	20	13
FEB 2nd											
03	10	13	15			47	46	44	89	21	16
06	10	11	15			47	46	44	89	21	14
09	9	13	12			49	47	44	83	20	15
12	6	UNL	15			60	52	44	56	28	11
15	7	UNL	2	8	D	63	47	28	27	35	16
18	6	UNL	7			58	43	23	26	36	10
21	3	UNL	8			43	35	23	45	30	4
24	0	UNL	10			38	33	26	62	25	6
FEB 3rd											
03	0	UNL	15			34	31	25	70	26	3
06	0	UNL	20			31	28	23	72	26	4
09	0	UNL	15			31	28	24	75	24	6
12	0	UNL	15			61	45	24	24	23	8
15	0	UNL	25			70	48	21	16	23	10
18	0	UNL	25			65	47	25	22	22	11
21	0	UNL	20			49	40	27	43	19	8
24	0	UNL	15			43	37	29	58	22	4
FEB 4th											
03	0	UNL	20			42	37	29	60	29	6
06	0	UNL	20			44	36	24	45	03	11
09	0	UNL	25			42	36	27	55	33	4
12	0	UNL	25			55	42	25	31	02	15
15	0	UNL	25			62	45	24	23	03	13
18	0	UNL	30			58	43	24	27	03	9
21	0	UNL	30			43	36	24	47	23	5
24	0	UNL	30			38	33	25	60	26	8
FEB 5th											
03	0	UNL	30			35	31	25	67	26	10
06	0	UNL	30			33	29	23	67	26	5
09	0	UNL	30			35	32	26	70	26	6
12	2	UNL	30			53	42	26	35	25	7
15	2	UNL	30			65	47	25	22	01	13
18	1	UNL	30			60	45	25	26	03	12
21	0	UNL	30			44	36	24	45	08	5
24	0	UNL	30			40	34	24	53	04	4
FEB 6th											
03	0	UNL	25			33	30	24	70	04	6
06	0	UNL	25			27	25	22	81	24	3
09	0	UNL	25			32	30	26	79	23	5
12	0	UNL	30			56	44	29	36	23	7
15	0	UNL	30			65	48	28	25	24	9
18	0	UNL	30			61	46	28	29	20	8
21	0	UNL	30			47	39	27	46	18	8
24	0	UNL	30			42	36	26	53	19	8
FEB 7th											
03	0	UNL	30			37	31	22	55	20	6
06	0	UNL	30			39	32	20	47	20	5
09	0	UNL	30			42	35	23	47	21	7
12	0	UNL	30			62	47	30	30	20	15
15	0	UNL	30			66	49	30	26	20	13
18	0	UNL	30			61	46	27	28	17	11
21	0	UNL	30			51	41	27	40	17	8
24	0	UNL	30			48	39	27	44	16	11
FEB 8th											
03	0	UNL	30			46	42	36	68	16	12
06	10	16	15			48	45	42	80	18	12
09	10	20	20			52	48	44	74	17	20
12	5	UNL	20			58	51	45	62	17	25
15	9	UNL	20			63	54	46	54	20	15
18	6	100	20			62	53	44	52	21	14
21	0	UNL	20			52	48	44	74	24	8
24	9	23	30			51	48	45	80	23	5
FEB 9th											
03	10	26	15			52	49	47	83	18	5
06	6	18	15			49	48	46	90	20	6
09	0	UNL	8			49	48	46	90	27	4
12	0	UNL	20			66	54	44	45	21	10
15	0	UNL	20			74	51	25	16	23	11
18	0	UNL	30			70	47	18	14	25	8
21	0	UNL	30			55	41	20	25	20	8
24	0	UNL	25			46	39	29	52	26	6
FEB 10th											
03	0	UNL	25			46	43	39	77	23	5
06	0	UNL	15			51	48	46	83	21	6
09	10	UNL	12			47	46	44	89	27	4
12	10	250	20			74	54	35	24	22	12
15	10	250	20			80	55	30	16	21	14
18	0	UNL	30			73	53	34	24	19	8
21	0	UNL	30			61	47	30	31	17	13
24	0	UNL	30			61	54	48	63	18	14
FEB 11th											
03	0	UNL	15			62		55		18	17
06	9	14	15			61		57		22	14
09	0	UNL	10			60		57		20	8
12	0	UNL	15			72	57	44	37	26	12
15	0	UNL	25			76	53	30	18	27	14
18	0	UNL	25			74	53	31	21	22	10
21	0	UNL	25			57	44	29	34	27	8
24	7	110	20			60	42	13	16	29	13
FEB 12th											
03	1	UNL	25			50	36	13	23	33	9
06	0	UNL	25			35	30	21	57	31	4
09	0	UNL	25			40	35	27	60	26	6
12	0	UNL	25			54	43	28	37	28	9
15	0	UNL	25			62	46	26	25	30	10
18	6	UNL	25			61	44	20	21	25	10
21	0	UNL	25			47	36	19	33	17	9
24	0	UNL	25			35	30	22	59	23	6
FEB 13th											
03	0	UNL	30			43	34	19	38	20	8
06	0	UNL	30			40	31	16	38	25	11
09	0	UNL	30			41	32	17	38	26	7
12	0	UNL	30			66	46	19	16	30	8
15	1	UNL	30			74	48	11	9	28	10
18	0	UNL	30			70	47	13	11	26	6
21	0	UNL	30			55	40	18	23	18	5
24	0	UNL	30			47	35	16	29	19	6
FEB 14th											
03	0	UNL	30			42	33	19	40	23	5
06	0	UNL	30			39	32	19	45	20	10
09	0	UNL	30			50	39	23	35	20	8
12	0	UNL	30			76	52	25	15	19	14
15	0	UNL	30			80	53	22	12	19	15
18	7	UNL	30			76	52	25	15	19	12
21	4	UNL	30			65	50	34	32	17	7
24	1	UNL	30			61	50	40	46	17	17
FEB 15th											
03	0	UNL	20			58	51	45	62	19	14
06	1	UNL	20			50	46	41	71	19	5
09	0	UNL	12			58	41	17	20	26	17
12	0	UNL	15			6[illegible]	45	21	19	27	18
15	6	UNL	2	8	BD	66	48	28	24	29	16
18	0	UNL	10			64	46	25	23	30	6
21	0	UNL	15			49	39	25	39	15	6
24	0	UNL	15			46	37	25	44	18	6
FEB 16th											
03	0	UNL	15			34	31	26	73	21	7
06	0	UNL	15			29	28	25	85	16	5
09	0	UNL	7			39	35	30	70	24	4
12	0	UNL	7			54	43	28	37	05	4
15	0	UNL	12			64	46	24	22	00	0
18	2	UNL	15			65	47	24	21	36	4
21	9	UNL	15			44	35	22	42	12	5
24	8	UNL	20			45	36	23	42	00	0
FEB 17th											
03	10	UNL	20			40	35	28	62	36	4
06	5	UNL	15			50	42	32	50	07	4
09	10	13	10			57	54	51	81	16	15
12	8	25	7			69		56		19	25
15	3	UNL	12			74		55		18	20
18	0	UNL	15			70	61	54	57	18	17
21	1	UNL	15			66		56		16	16
24	9	35	15			69	62	57	66	23	17
FEB 18th											
03	0	UNL	20			56	40	14	19	27	13
06	0	UNL	25			46	34	11	24	25	7
09	0	UNL	25			49	36	15	26	24	8
12	0	UNL	25			60	44	22	23	32	15
15	0	UNL	25			66	47	25	21	34	9
18	8	UNL	25			62	46	25	24	04	7
21	5	UNL	25			44	36	25	47	05	6
24	8	UNL	25			41	34	23	49	04	6

WEATHER CODES

*	TORNADO	ZL	FREEZING DRIZZLE	IPW	ICE PELLET SHOWERS	BN	BLOWING SAND
T	THUNDERSTORM	S	SNOW	A	HAIL	BS	BLOWING SNOW
Q	SQUALL	SW	SNOW SHOWERS	F	FOG	BY	BLOWING SPRAY
R	RAIN	SG	SNOW GRAINS	IF	ICE FOG	K	SMOKE
RW	RAIN SHOWERS	SP	SNOW PELLETS	GF	GROUND FOG	H	HAZE
ZR	FREEZING RAIN	IC	ICE CRYSTALS	BD	BLOWING DUST	D	DUST
L	DRIZZLE	IP	ICE PELLETS				

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

FEB 1984 23034
SAN ANGELO, TEXAS

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					FEB 19th						
03	8	UNL	25			39	34	26	60	03	10
06	9	UNL	25			36	32	25	64	06	7
09	10	250	25			38	32	23	55	04	12
12	10	100	25			42	35	23	47	02	14
15	1	UNL	25			51	40	23	34	05	13
18	10	90	25			51	40	24	35	03	15
21	10	75	25			48	39	26	42	05	10
24	10	75	30			45	37	25	46	02	14
					FEB 20th						
03	10	21	25		R	43	37	29	58	36	19
06	10	3	1		SF	33	33	32	96	34	5
09	10	26	7		R	35	34	33	92	36	8
12	10	50	15			43	39	34	71	35	11
15	10	80	20			47	37	22	37	34	6
18	4	UNL	30			48	38	24	39	36	5
21	0	UNL	30			33	30	24	70	19	4
24	0	UNL	30			30	29	26	85	19	6
					FEB 21st						
03	0	UNL	30			30	29	26	85	27	6
06	0	UNL	30			25	24	23	92	24	5
09	0	UNL	30			35	33	29	79	25	8
12	0	UNL	30			50	41	30	46	24	7
15	3	UNL	30			58	42	20	23	25	5
18	1	UNL	30			57	42	22	26	27	7
21	0	UNL	30			46	37	24	42	21	7
24	0	UNL	30			35	31	25	67	21	5
					FEB 22nd						
03	0	UNL	30			32	29	25	75	22	4
06	0	UNL	30			31	28	22	69	21	6
09	0	UNL	30			41	36	28	60	24	6
12	0	UNL	30			63	46	25	24	25	8
15	0	UNL	30			72	49	22	15	23	8
18	6	UNL	30			69	48	22	17	22	9
21	0	UNL	30			53	39	18	25	18	9
24	0	UNL	30			47	35	16	29	20	13
					FEB 23rd						
03	4	UNL	30			51	38	17	26	19	11
06	10	UNL	30			49	38	21	33	19	11
09	5	UNL	30			56	44	30	37	20	14
12	0	UNL	25			69	47	20	15	29	16
15	0	UNL	25			70	48	22	16	31	10
18	0	UNL	25			68	48	24	19	34	9
21	0	UNL	25			53	43	30	42	36	9
24	0	UNL	25			38	33	26	62	05	3
					FEB 24th						
03	4	UNL	25			38	34	27	65	19	5
06	0	UNL	25			33	31	28	82	21	6
09	0	UNL	30			38	35	30	73	24	5
12	0	UNL	30			62	46	28	28	19	11
15	0	UNL	30			70	49	26	19	21	9
18	0	UNL	30			68	48	23	18	22	8
21	0	UNL	30			55	42	23	29	19	9
24	0	UNL	30			44	36	25	47	19	6
					FEB 25th						
03	0	UNL	30			50	42	32	50	19	14
06	0	UNL	25			50	44	37	61	18	12
09	0	UNL	12			57	53	49	75	17	21
12	3	UNL	15			70	59	50	49	18	23
15	9	250	15			72	58	47	41	18	20
18	10	250	12			70	57	47	44	18	18
21	6	250	15			65	58	53	65	17	20
24	10	26	15			64	58	53	68	21	11
					FEB 26th						
03	10	110	15			61		57		21	11
06	1	UNL	20			51	40	24	35	26	20
09	0	UNL	25			52	42	28	40	27	23
12	5	UNL	2	8	BD	53	43	32	45	30	25
15	10	32	15			47	41	34	61	29	26
18	10	13	7		R	39	38	36	89	31	16
21	10	13	7		R	38	37	36	93	32	18
24	10	32	20			41	37	32	70	33	20
					FEB 27th						
03	10	32	20			40	36	29	65	32	21
06	10	30	25			38	34	28	67	32	19
09	1	UNL	15			37	33	28	70	33	20
12	2	UNL	25			46	38	25	44	32	17
15	2	UNL	25			52	41	25	35	32	20
18	2	UNL	25			49	38	23	36	34	20
21	0	UNL	30			36	31	23	59	31	[illegible]
24	0	UNL	30			38	33	25	60	35	9
					FEB 28th						
03	0	UNL	30			31	29	24	75	01	3
06	0	UNL	30			29	27	23	78	34	9
09	0	UNL	30			33	28	19	56	33	9
12	0	UNL	30			42	32	15	33	02	10
15	6	UNL	30			46	35	14	27	33	8
18	10	UNL	30			47	36	16	29	36	7
21	10	UNL	30			38	31	18	44	12	3
24	3	UNL	30			30	26	17	58	17	6
					FEB 29th						
03	0	UNL	30			28	25	18	66	18	3
06	0	UNL	30			26	24	20	78	05	5
09	0	UNL	30			32	28	20	61	18	6
12	0	UNL	30			50	38	20	31	18	9
15	0	UNL	30			56	42	21	26	16	13
18	9	UNL	30			55	41	20	25	17	11
21	9	UNL	30			44	35	21	40	18	5
24	3	UNL	30			39	32	21	49	18	10

SUMMARY BY HOURS

HOUR L.S.T	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AIR TEMP °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
	AVERAGES		TEMPERATURE					RESULTANT WIND	
03	3	28.020	43		30	63	10.5	23	4.7
06	3	28.030	40	35	29	68	9.4	23	4.6
09	3	28.070	44	38	31	64	11.3	23	6.2
12	2	28.060	59	45	31	38	14.9	25	6.7
15	3	27.980	65	47	27	27	14.2	25	5.8
18	3	27.970	62	46	27	30	11.9	24	3.2
21	2	28.000	49	40	28	46	9.3	18	4.7
24	3	28.020	45	38	29	55	10.0	21	4.8

MAR 1984
SAN ANGELO, TEXAS
NAT'L WEA SER OFC
RT. 5, BOX 5235

ISSN 0198-5175

LOCAL CLIMATOLOGICAL DATA
Monthly Summary

MATHIS FIELD

LATITUDE 31°22' LONGITUDE 100°30' ELEVATION (GROUND) 1903 FEET TIME ZONE CENTRAL 23034

MAR 1984
SAN ANGELO, TEXAS

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F HEATING (SEASON BEGINS WITH JUL) 7A	COOLING (SEASON BEGINS WITH JAN) 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0600 INCHES 9	PRECIPITATION WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 1908 FEET ABOVE M.S.L. 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	FASTEST MILE SPEED 16	FASTEST MILE DIRECTION 17	SUNSHINE MINUTES 18	PERCENT OF TOTAL POSSIBLE 19	SKY COVER (TENTHS) SUNRISE TO SUNSET 20	MIDNIGHT TO MIDNIGHT 21	DATE 22
01	73	37	55	2	29	10	0		0	0.00	0.0	27.970	20	14.4	14.7	22	21			0	1	01
02	77	48	63	10	38	2	0		0	0.00	0.0	27.930	26	2.2	9.3	17	21			3	3	02
03	80	43	62	8	45	3	0		0	0.00	0.0	27.850	18	7.7	9.5	17	18			8	5	03
04	65	44	55	1	46	10	0		0	0.00	0.0	27.850	04	3.8	13.9	23	02			8	5	04
05	45	33	39	-15	28	26	0	1 34	T	0.18	T	28.080	02	15.7	17.1	28	03			10	10	05
06	55	23*	39*	-15	25	26	0		0	0.00	0.0	28.130	23	6.3	8.0	14	22			0	0	06
07	67	34	51	-4	24	14	0		0	0.00	0.0	28.150	23	9.1	10.0	14	21			0	0	07
08	66	36	51	-4	27	14	0		0	0.00	0.0	28.180	01	5.3	10.4	20	03			0	0	08
09	69	35	52	-3	36	13	0		0	0.00	0.0	28.120	14	5.0	10.2	15	17			7	5	09
10	53	44	49	-7	43	16	0	1	0	T	0.0	28.140	03	7.8	10.8	20	02			10	8	10
11	63	46	55	-1	50	10	0	23	0	0.01	0.0	28.000	14	5.2	8.3	15	17			10	10	11
12	75	48	62	6	44	3	0		0	0.00	0.0	27.900	25	4.5	9.5	14	21			4	2	12
13	85	37	61	5	42	4	0		0	0.00	0.0	28.030	20	8.2	9.7	20	19			6	4	13
14	82	58	70	13	56	0	5		0	0.00	0.0	28.000	18	13.6	13.8	23	18			0	1	14
15	85	64	75*	18	58	0	10		0	0.00	0.0	27.990	19	8.0	8.9	17	20			8	8	15
16	81	59	70	13	59	0	5	1	0	0.00	0.0	28.000	18	8.0	9.2	16	20			10	9	16
17	66	56	61	3	58	4	0	1	0	0.00	0.0	27.970	08	5.7	10.1	15	06			8	7	17
18	81	47	64	6	44	1	0		0	0.00	0.0	27.750	25	8.7	17.0	25	18			3	6	18
19	65	33	49	-9	27	16	0		0	0.00	0.0	28.010	32	11.6	12.6	22	32			0	1	19
20	72	34	53	-6	29	12	0		0	0.00	0.0	28.060	26	3.4	6.7	10	34			0	0	20
21	79	38	59	0	32	6	0		0	0.00	0.0	27.850	18	12.1	12.3	21	18			0	0	21
22	84	53	69	10	42	0	4		0	0.00	0.0	27.680	20	14.3	16.1	23	17			1	2	22
23	65	43	54	-6	40	11	0	3 5	0	0.29	0.0	27.915	32	10.3	12.9	22	33			0	3	23
24	71	35	53	-7	31	12	0		0	0.00	0.0	27.970	26	4.5	7.8	14	28			0	0	24
25	80	38	59	-1	41	6	0		0	0.00	0.0	27.790	19	11.4	11.6	24	19			10	7	25
26	85*	57	71	10	38	0	6		0	0.00	0.0	27.620	23	8.5	11.0	20	20			4	5	26
27	81	47	64	3	36	1	0	7	0	0.00	0.0	27.510	27	17.4	22.1	44	28			4	4	27
28	65	39	52	-9	27	13	0		0	0.00	0.0	27.950	32	13.9	14.8	24	34			0	0	28
29	64	31	48	-14	25	17	0		0	0.00	0.0	28.035	06	4.6	7.0	13	07			2	1	29
30	71	46	59	-3	34	6	0		0	0.01	0.0	27.970	13	11.4	13.7	24	16			4	4	30
31	77	48	63	1	41	2	0		0	0.00	0.0	28.000	32	3.3	11.6	23	04			2	1	31
	SUM 2227	SUM 1334				TOTAL 258	TOTAL 30	NUMBER OF DAYS		TOTAL 0.49	TOTAL T	FOR THE MONTH: 27.950	22	2.9	11.6	44	28	TOTAL	% POSS	SUM 122	SUM 112
	AVG 71.8	AVG 43.0	AVG 57.4	DEP -0.1	AVG 38.5	DEP -16	DEP -12	PRECIPITATION ≥ .01 INCH	4	DEP -0.30						DATE: 27		POSSIBLE		AVG 3.9	AVG 3.6

NUMBER OF DAYS				SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
MAXIMUM TEMP.		MINIMUM TEMP.		TOTAL	TOTAL	≥ 1.0 INCH	0			SNOW, ICE PELLETS			
≥ 90°	≤ 32°	≤ 32°	≤ 0°	2589	32	THUNDERSTORMS	3	PRECIPITATION					
				DEP.	DEP.	HEAVY FOG	1	0.29	23	trace	05	T	05
0	0	2	0	354	-10	CLEAR 16	PARTLY CLOUDY 6		CLOUDY 9				

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

L. Ray Hoxit
ACTING DIRECTOR
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noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION — NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE — NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

OBSERVATIONS AT 3-HOUR INTERVALS

MAR 1984 23034
SAN ANGELO, TEXAS

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
MAR 1st											
03	0	UNL	30			40	33	20	45	19	9
06	0	UNL	30			37	32	23	57	21	12
09	0	UNL	30			44	40	35	71	20	14
12	0	UNL	30			62	49	35	37	21	15
15	0	UNL	30			70	51	30	23	23	16
18	1	UNL	30			69	50	29	23	20	13
21	4	UNL	30			55	44	31	40	19	12
24	0	UNL	30			54	45	35	49	19	12
MAR 2nd											
03	0	UNL	30			52	45	38	59	21	12
06	0	UNL	25			49	45	41	74	22	8
09	0	UNL	20			52	47	42	69	23	13
12	0	UNL	25			68	53	40	36	05	4
15	6	UNL	25			76	54	33	21	36	6
18	10	UNL	25			71	53	35	27	04	10
21	8	UNL	25			60	49	37	43	04	6
24	10	250	25			54	46	38	55	05	4
MAR 3rd											
03	2	UNL	25			52	47	41	66	04	3
06	3	UNL	25			43	41	38	83	00	0
09	10	100	12			51	48	44	77	17	5
12	10	250	10			68	59	53	59	19	11
15	8	250	12			77	60	48	36	19	14
18	0	UNL	20			75	58	44	33	20	11
21	0	UNL	20			65	57	50	59	18	12
24	0	UNL	20			63	56	51	65	19	14
MAR 4th											
03	0	UNL	15			59	57	55	87	18	15
06	6	14	12			61	58	56	84	20	13
09	10	11	8			60	58	57	90	30	7
12	10	15	10			56	50	45	67	04	10
15	9	26	15			61	52	44	54	01	13
18	3	UNL	20			56	48	39	53	04	11
21	1	UNL	20			48	41	32	54	04	15
24	4	UNL	25			44	38	29	56	03	16
MAR 5th											
03	10	28	7		RIP	36	34	32	85	04	18
06	10	7	10		RIPS	34	33	32	92	01	16
09	10	7	1	8	SF	33	32	31	92	02	10
12	10	55	25			39	34	27	62	02	17
15	10	41	25			44	37	28	54	36	16
18	10	65	25			44	35	21	40	36	15
21	10	45	25			40	34	25	55	31	9
24	10	55	25			38	33	26	62	29	4
MAR 6th											
03	0	UNL	30			28	27	24	85	25	7
06	0	UNL	30			29	28	25	85	23	5
09	3	UNL	30			33	31	27	79	25	3
12	0	UNL	30			46	37	25	44	25	9
15	0	UNL	30			52	40	24	34	22	8
18	0	UNL	30			53	41	24	32	27	8
21	0	UNL	30			44	37	28	54	14	7
24	0	UNL	30			39	34	27	62	18	9
MAR 7th											
03	0	UNL	30			38	34	28	67	25	9
06	0	UNL	30			34	31	27	76	23	7
09	0	UNL	30			43	38	31	63	24	8
12	0	UNL	30			60	44	22	23	25	9
15	0	UNL	30			66	46	19	16	22	7
18	0	UNL	30			65	46	20	18	21	12
21	0	UNL	30			51	40	24	35	19	8
24	0	UNL	30			42	35	24	49	20	6
MAR 8th											
03	3	UNL	30			40	34	23	51	23	8
06	0	UNL	30			37	32	24	59	26	6
09	0	UNL	30			52	43	32	47	30	7
12	0	UNL	30			60	46	30	32	04	10
15	0	UNL	30			66	49	31	27	35	6
18	0	UNL	30			62	47	31	31	04	15
21	0	UNL	30			50	40	25	38	04	12
24	0	UNL	30			43	35	21	42	04	9
MAR 9th											
03	0	UNL	30			36	31	21	55	06	7
06	10	25	20			38	31	20	48	05	10
09	10	16	20			41	34	23	49	06	9
12	10	21	20			53	47	41	64	17	9
15	6	40	20			66	57	49	55	18	11
18	0	UNL	25			68	56	47	47	20	12
21	4	UNL	25			59	52	46	62	16	6
24	0	UNL	25			51	48	44	77	19	6
MAR 10th											
03	0	UNL	20			52	49	47	83	17	7
06	10	14	20			52	50	48	86	36	14
09	10	10	7			45	44	42	89	03	12
12	10	8	7			46	44	42	86	03	10
15	10	13	8			51	48	44	77	02	9
18	10	20	7			48	44	40	74	03	12
21	10	13	10			46	43	40	80	03	7
24	10	15	10			48	44	39	71	05	5
MAR 11th											
03	10	12	10			46	43	40	80	05	8
06	10	6	10			47	45	43	86	06	6
09	10	1	0	8	LF	48	47	46	93	05	4
12	10	28	15			61	55	51	70	17	10
15	10	26	10		RW	60	57	55	84	17	11
18	10	14	10			59	57	55	87	17	10
21	8	35	10			58	57	56	93	14	7
24	4	UNL	15			60	58	57	90	19	7
MAR 12th											
03	0	UNL	25			58	56	55	90	24	9
06	0	UNL	12			57	56	55	93	22	11
09	8	UNL	20			61	58	55	81	27	9
12	9	UNL	20			69	54	41	36	35	9
15	0	UNL	30			73	54	35	25	29	8
18	0	UNL	30			74	53	33	22	30	6
21	0	UNL	30			60	49	37	43	11	8
24	0	UNL	30			48	43	38	69	31	4
MAR 13th											
03	1	UNL	30			40	39	37	89	23	3
06	2	UNL	20			38	38	37	96	35	3
09	3	UNL	20			54	48	43	67	19	6
12	3	UNL	20			76	60	47	36	19	14
15	8	UNL	20			85	60	40	20	24	12
18	8	250	20			80	58	40	24	22	12
21	3	UNL	20			66	55	45	47	17	8
24	0	UNL	25			61	53	46	58	18	9
MAR 14th											
03	0	UNL	20			60	56	52	75	17	9
06	0	UNL	15			59	57	56	90	17	9
09	0	UNL	12			66	61	58	76	19	10
12	0	UNL	15			75	64	57	54	19	16
15	0	UNL	15			81	66	57	44	18	20
18	0	UNL	15			77	64	55	47	17	15
21	1	UNL	20			70	61	55	59	16	9
24	5	UNL	20			66	62	60	81	17	7
MAR 15th											
03	8	UNL	20			64	62	60	87	20	10
06	10	28	15			67	64	62	84	21	7
09	10	250	12			69	65	63	81	20	9
12	10	UNL	20			77	67	61	58	23	12
15	10	UNL	20			83	65	54	37	18	4
18	2	UNL	20			82	63	51	34	15	5
21	7	UNL	20			71	61	54	55	14	5
24	9	UNL	20			65	61	58	78	18	10
MAR 16th											
03	9	UNL	20			61	59	57	87	29	4
06	10	UNL	7			62	61	60	93	14	5
09	10	20	5		F	63	61	60	90	06	5
12	10	38	12			74	66	61	64	18	11
15	9	250	15			80	68	61	52	18	13
18	10	130	20			78	65	57	49	19	8
21	9	UNL	20			68	61	56	66	18	5
24	3	UNL	20			62	59	56	81	20	6
MAR 17th											
03	0	UNL	20			64	61	59	84	18	9
06	0	UNL	15			62	60	59	90	18	9
09	10	14	8			65	63	61	87	04	8
12	10	9	7			57	55	53	87	06	12
15	10	16	8			64	59	56	75	06	11
18	10	16	12			65	60	57	76	06	8
21	10	10	8			65	61	58	78	09	8
24	8	11	8			65	63	62	90	10	4
MAR 18th											
03	10	22	8			65	63	62	90	16	8
06	10	14	10			68	65	63	84	18	15
09	10	22	7			71	66	63	76	19	21
12	4	UNL	10			78	59	44	30	30	15
15	0	UNL	15			80	57	37	21	28	15
18	0	UNL	7			76	52	25	15	28	19
21	2	UNL	4		BD	55	42	25	31	32	16
24	10	UNL	12			47	37	20	34	33	12

WEATHER CODES

*	TORNADO	ZL	FREEZING DRIZZLE	IPW	ICE PELLET SHOWERS	BN	BLOWING SAND
T	THUNDERSTORM	S	SNOW	A	HAIL	BS	BLOWING SNOW
Q	SQUALL	SW	SNOW SHOWERS	F	FOG	BY	BLOWING SPRAY
R	RAIN	SG	SNOW GRAINS	IF	ICE FOG	K	SMOKE
RW	RAIN SHOWERS	SP	SNOW PELLETS	GF	GROUND FOG	H	HAZE
ZR	FREEZING RAIN	IC	ICE CRYSTALS	BD	BLOWING DUST	D	DUST
L	DRIZZLE	IP	ICE PELLETS				

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

MAR 1984 23034
SAN ANGELO, TEXAS

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					MAR 19th						
03	1	UNL	25			40	33	20	45	33	10
06	0	UNL	25			37	31	22	55	31	6
09	0	UNL	25			44	36	25	47	28	15
12	0	UNL	25			58	45	30	35	30	18
15	0	UNL	20			64	48	31	29	31	17
18	0	UNL	20			61	47	30	31	33	17
21	0	UNL	20			45	38	28	52	31	6
24	0	UNL	20			43	37	29	58	26	3
					MAR 20th						
03	0	UNL	25			37	34	30	76	26	9
06	0	UNL	25			37	34	30	76	24	9
09	0	UNL	30			46	40	31	56	27	6
12	0	UNL	30			64	47	28	26	02	8
15	0	UNL	30			70	51	30	23	30	6
18	0	UNL	30			68	49	27	21	00	0
21	0	UNL	30			58	44	27	31	12	6
24	0	UNL	30			51	41	29	43	06	5
					MAR 21st						
03	0	UNL	30			41	36	29	62	00	0
06	0	UNL	30			44	38	30	58	17	6
09	0	UNL	30			56	45	31	39	19	11
12	0	UNL	20			73	53	33	23	17	15
15	0	UNL	15			78	55	33	20	19	17
18	0	UNL	15			76	54	32	20	20	11
21	0	UNL	15			66	51	35	32	18	10
24	0	UNL	20			62	50	38	41	18	13
					MAR 22nd						
03	0	UNL	20			59	49	40	50	19	14
06	3	UNL	25			57	49	40	53	20	15
09	0	UNL	20			61	52	44	54	20	15
12	0	UNL	20			76	59	45	33	21	16
15	0	UNL	20			83	58	37	19	23	12
18	2	UNL	20			79	57	38	23	19	11
21	10	90	20			72	59	50	46	17	20
24	10	35	20			63	54	47	56	32	13
					MAR 23rd						
03	10	30	20		RW	55	53	52	90	04	6
06	6	UNL	20			51	50	49	93	15	5
09	0	UNL	15			53	49	45	74	32	15
12	0	UNL	15			60	52	44	56	32	15
15	0	UNL	15			64	50	35	34	32	15
18	0	UNL	8			61	47	30	31	32	15
21	6	50	7			50	41	28	43	32	15
24	0	UNL	25			43	37	28	56	30	6
					MAR 24th						
03	0	UNL	25			39	35	29	67	27	6
06	0	UNL	25			35	33	30	82	23	6
09	0	UNL	30			45	39	31	58	27	10
12	0	UNL	30			58	45	29	33	26	7
15	0	UNL	30			68	50	30	24	29	8
18	0	UNL	30			70	51	30	23	17	3
21	0	UNL	30			57	47	35	44	12	8
24	0	UNL	30			54	45	34	47	16	8
					MAR 25th						
03	0	UNL	30			48	42	34	59	00	0
06	1	UNL	30			40	37	32	73	15	3
09	10	UNL	25			59	49	39	48	18	9
12	10	250	25			74	56	40	29	20	19
15	10	250	25			78	58	43	29	20	11
18	10	250	25			76	59	47	36	20	13
21	10	250	25			67	56	48	51	17	7
24	2	UNL	25			67	58	51	57	20	17
					MAR 26th						
03	3	UNL	25			60	56	52	75	22	9
06	1	UNL	25			60	56	53	78	22	8
09	3	UNL	25			63	50	37	38	23	8
12	0	UNL	25			75	52	28	18	26	8
15	1	UNL	20			83	55	29	14	26	16
18	10	250	20			80	54	29	16	26	12
21	10	250	20			64	49	32	30	04	4
24	10	110	20			64	50	37	37	36	10
					MAR 27th						
03	10	110	20			64	50	35	34	07	6
06	1	UNL	25			60	53	46	60	20	7
09	0	UNL	20			73	53	33	23	23	22
12	3	UNL	10			81	55	31	16	26	28
15	10	60	6		BO	75	55	38	26	28	26
18	1	UNL	4		BO	70	52	34	27	28	26
21	0	UNL	8			49	42	33	54	32	23
24	1	UNL	25			47	41	34	61	33	1[illegible]
					MAR 28th						
03	0	UNL	25			44	40	34	68	30	9
06	0	UNL	25			40	37	33	76	26	7
09	0	UNL	25			49	41	30	48	32	15
12	0	UNL	25			60	46	28	30	32	15
15	0	UNL	25			64	46	22	20	32	20
18	0	UNL	25			61	44	20	21	33	19
21	0	UNL	25			49	38	22	35	32	6
24	0	UNL	25			39	34	26	60	00	0
					MAR 29th						
03	0	UNL	25			34	30	24	67	28	4
06	0	UNL	25			34	31	27	76	16	4
09	0	UNL	30			46	37	25	44	03	7
12	0	UNL	30			56	43	26	32	02	8
15	2	UNL	30			64	47	27	25	04	7
18	10	250	30			62	46	25	24	07	11
21	2	UNL	30			54	41	24	31	08	6
24	1	UNL	30			50	40	26	39	09	8
					MAR 30th						
03	10	110	20			48	40	29	48	07	7
06	10	75	15		R	50	44	36	59	10	11
09	8	75	15			49	44	38	66	08	9
12	4	UNL	20			64	49	34	33	13	11
15	0	UNL	25			70	51	32	25	16	14
18	0	UNL	25			70	52	33	26	15	14
21	0	UNL	25			62	48	34	35	13	9
24	1	UNL	25			59	49	39	48	17	9
					MAR 31st						
03	1	UNL	20			56	51	46	69	18	10
06	1	UNL	20			55	52	49	80	22	12
09	2	UNL	12			60	55	51	72	23	11
12	0	UNL	15			71	54	37	29	29	10
15	0	UNL	25			74	54	34	23	31	9
18	0	UNL	25			70	52	34	27	35	10
21	0	UNL	20			57	48	38	49	05	10
24	0	UNL	20			48	44	40	74	06	8

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES: SKY COVER (TENTHS)	AVERAGES: STATION PRESSURE (INCHES)	AVERAGES: TEMPERATURE AIR TEMP °F	AVERAGES: TEMPERATURE WET BULB °F	AVERAGES: TEMPERATURE DEW POINT °F	AVERAGES: REL HUMIDITY %	AVERAGES: WIND SPEED (MPH)	RESULTANT WIND: DIRECTION	RESULTANT WIND: SPEED (MPH)
03	3	27.950	49	44	39	70	9.1	21	3.2
06	3	27.950	48	44	40	77	9.5	20	4.4
09	4	28.000	53	47	41	66	11.8	24	4.5
12	4	27.990	64	52	39	43	14.1	25	4.0
15	4	27.910	70	53	38	34	14.0	26	5.5
18	3	27.890	68	52	36	34	13.5	26	2.9
21	4	27.940	57	48	37	49	10.8	12	2.0
24	3	27.960	53	46	38	59	9.5	18	1.8

APR 1984
SAN ANGELO, TEXAS
NAT'L WEA SER OFC
RT. 5, BOX 5235

ISSN 0198-5175

LOCAL CLIMATOLOGICAL DATA
Monthly Summary

NATHIS FIELD

LATITUDE 31°22' LONGITUDE 100°30' ELEVATION (GROUND) 1903 FEET TIME ZONE CENTRAL 23034

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F HEATING (SEASON BEGINS WITH JUL) 7A	COOLING (SEASON BEGINS WITH JAN) 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0600 INCHES 9	PRECIPITATION WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 1908 FEET ABOVE M.S.L. 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	FASTEST MILE SPEED 16	FASTEST MILE DIRECTION 17	SUNSHINE MINUTES 18	PERCENT OF TOTAL POSSIBLE 19	SKY COVER (TENTHS) SUNRISE TO SUNSET 20	MIDNIGHT TO MIDNIGHT 21	DATE 22
01	73	44	59	-4	47	6	0	1 8	0	0.00	0.0	27.920	12	12.0	15.0	24	14			8	8	01
02	74	49	62	-1	30	3	0		0	0.07	0.0	27.750	24	14.0	17.3	25	26			1	3	02
03	71	43	57	-6	25	8	0		0	0.00	0.0	27.945	31	8.7	12.7	21	30			0	0	03
04	70	37	54	-10	28	11	0		0	0.00	0.0	28.130	34	8.1	9.9	15	34			0	0	04
05	77	30*	54*	-10	29	11	0		0	0.00	0.0	28.040	17	5.2	7.1	14	16			4	2	05
06	73	51	62	-2	48	3	0		0	0.00	0.0	27.835	18	12.6	12.9	20	19			10	7	06
07	78	59	69	4	49	0	4	1 3	0	0.16	0.0	27.670	21	10.6	14.0	26	27			7	6	07
08	79	51	65	0	43	0	0		0	0.00	0.0	27.850	29	7.8	10.9	17	31			1	0	08
09	90	43	67	2	38	0	2		0	0.00	0.0	27.730	20	10.9	11.5	22	23			1	1	09
10	77	52	65	0	33	0	0	7	0	0.00	0.0	27.760	29	11.7	15.3	33	29			2	3	10
11	94	42	68	2	37	0	3		0	0.00	0.0	27.680	20	10.0	11.2	20	22			5	5	11
12	78	55	67	1	32	0	2		0	0.00	0.0	27.890	02	7.9	11.3	22	01			0	2	12
13	92	47	70	4	34	0	5		0	0.00	0.0	27.860	27	1.7	9.9	18	22			0	0	13
14	74	45	60	-7	25	5	0		0	0.00	0.0	28.130	35	12.4	13.2	24	34			0	0	14
15	74	40	57	-10	28	8	0		0	0.00	0.0	28.150	33	9.9	12.0	23	34			1	1	15
16	75	45	60	-7	24	5	0		0	0.00	0.0	28.120	30	7.7	9.1	17	31			1	3	16
17	91	34	63	-4	20	2	0		0	0.00	0.0	27.890	21	11.2	12.0	21	20			0	1	17
18	88	52	70	2	32	0	5		0	0.00	0.0	27.760	24	7.8	11.0	20	18			10	6	18
19	87	56	72	4	41	0	7		0	0.00	0.0	27.730	34	0.8	7.6	13	19			8	6	19
20	97*	57	77	9	34	0	12		0	0.00	0.0	27.530	24	9.0	15.3	26	23			0	1	20
21	75	50	63	-5	27	2	0		0	0.00	0.0	27.870	31	11.3	12.7	21	33			1	1	21
22	75	40	58	-11	29	7	0		0	0.00	0.0	26.020	32	5.3	7.2	13	30			1	1	22
23	83	41	62	-7	28	3	0		0	0.00	0.0	27.970	16	1.5	4.7	9	18			0	0	23
24	93	58	76	7	38	0	11		0	0.00	0.0	27.760	18	13.9	14.1	21	18			0	0	24
25	94	63	79*	10	48	0	14		0	0.00	0.0	27.610	19	15.1	16.1	22	22			1	1	25
26	96	60	78	9	42	0	13		0	0.00	0.0	27.570	21	13.7	17.0	30	23			0	0	26
27	81	52	67	-3	26	0	2		0	0.00	0.0	27.860	35	4.1	7.9	17	34			0	0	27
28	86	48	67	-3	47	0	2		0	0.00	0.0	27.850	08	8.9	10.3	16	10			10	8	28
29	80	53	67	-3	34	0	2		0	T	0.0	27.860	25	13.1	18.3	32	26			3	4	29
30	82	52	67	-3	32	0	2		0	0.00	0.0	28.050	09	8.1	10.5	14	14			3	2	30
	SUM 2457	SUM 1449				TOTAL 74	TOTAL 86	NUMBER OF DAYS		TOTAL 0.23	TOTAL 0.0	FOR THE MONTH: 27.860	24	3.5	11.9	33	29	TOTAL	% POSS	SUM 78	SUM 72	
	AVG. 81.9	AVG. 48.3	AVG. 65.1	DEP. -1.7	AVG. 34.3	DEP. 1	DEP. -41	PRECIPITATION ≥ .01 INCH. 2		DEP -1.52						DATE: 10		POSSIBLE	MONTH	AVG. 2.6	AVG. 2.4	

NUMBER OF DAYS				SEASON TO DATE	
MAXIMUM TEMP.		MINIMUM TEMP.		TOTAL	TOTAL
≥ 90°	≤ 32°	≤ 32°	≤ 0°	2663	118
8	0	1	0	DEP. 355	DEP. -51

SNOW, ICE PELLETS ≥ 1.0 INCH	0
THUNDERSTORMS	1
HEAVY FOG	0
CLEAR 22	PARTLY CLOUDY 3	CLOUDY 5

GREATEST IN 24 HOURS AND DATES		
PRECIPITATION	SNOW, ICE PELLETS	
0.16	07	0.0

GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE
0

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D. Hadley
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

OBSERVATIONS AT 3-HOUR INTERVALS

APR 1984 23034
SAN ANGELO, TEXAS

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					APR 1st						
03	7	26	12			45	42	39	80	05	11
06	10	16	10			47	45	42	83	06	11
09	10	17	6		H	52	48	43	72	09	10
12	6	35	9			64	57	52	65	14	17
15	7	45	12			71	59	50	48	15	19
18	7	50	15			70	59	50	49	14	21
21	6	45	20			64	58	54	70	12	10
24	9	26	15			63	57	53	70	14	15
					APR 2nd						
03	6	32	15			63	59	56	78	17	22
06	10	65	12			61	59	58	90	23	14
09	0	UNL	25			62	47	31	31	29	14
12	1	UNL	25			70	48	21	16	26	21
15	0	UNL	25			73	49	18	12	26	21
18	0	UNL	12			73	47	10	9	26	17
21	0	UNL	15			58	42	18	21	22	8
24	0	UNL	25			49	38	21	33	18	7
					APR 3rd						
03	0	UNL	25			51	39	20	30	22	8
06	0	UNL	25			46	37	25	44	26	6
09	0	UNL	25			55	43	29	37	32	12
12	0	UNL	25			65	48	30	27	31	11
15	0	UNL	30			70	50	27	20	30	18
18	0	UNL	20			67	47	23	19	33	15
21	0	UNL	20			59	44	25	27	02	11
24	0	UNL	25			52	42	28	40	02	9
					APR 4th						
03	0	UNL	25			45	38	29	54	35	8
06	0	UNL	25			39	34	27	62	29	4
09	0	UNL	25			48	40	29	48	33	12
12	0	UNL	25			61	46	28	29	34	13
15	0	UNL	30			68	49	27	21	36	9
18	1	UNL	30			67	48	27	22	33	11
21	0	UNL	30			55	44	30	39	05	7
24	0	UNL	30			48	39	25	41	07	3
					APR 5th						
03	0	UNL	30			33	30	24	70	00	0
06	1	UNL	30			36	34	30	79	28	4
09	9	UNL	25			50	42	32	50	05	6
12	9	UNL	25			69	49	26	20	14	7
15	1	UNL	30			75	53	29	18	19	11
18	0	UNL	30			75	53	30	19	18	10
21	0	UNL	30			64	49	32	30	18	8
24	0	UNL	30			57	45	32	39	17	6
					APR 6th						
03	0	UNL	25			54	44	32	43	20	5
06	2	UNL	25			51	44	35	55	20	8
09	10	250	20			61	55	50	67	19	13
12	10	250	20			70	60	52	53	18	14
15	10	250	20			71	60	53	53	18	14
18	10	250	15			73	62	54	52	16	13
21	10	250	15			69	61	56	63	16	14
24	10	28	15			66	61	57	73	15	7
					APR 7th						
03	10	15	12			64	60	58	81	17	14
06	10	13	8		R	63	61	60	90	18	7
09	10	20	9			65	63	61	87	18	14
12	10	20	8		TRW	59	57	55	87	25	5
15	6	250	20			77	59	45	32	24	19
18	5	UNL	15			72	53	36	27	25	13
21	0	UNL	25			62	50	37	40	22	9
24	0	UNL	25			61	50	38	43	23	12
					APR 8th						
03	0	UNL	20			58	51	44	60	28	12
06	0	UNL	15			51	48	45	80	25	10
09	0	UNL	20			61	53	46	58	33	15
12	0	UNL	25			72	57	44	37	34	13
15	2	UNL	25			76	57	40	28	30	11
18	2	UNL	25			76	57	40	28	27	8
21	0	UNL	25			65	52	40	40	17	4
24	0	UNL	25			54	47	40	59	19	7
					APR 9th						
03	0	UNL	25			47	43	38	71	24	3
06	0	UNL	25			43	41	39	86	25	3
09	0	UNL	25			73	56	42	33	18	16
12	0	UNL	25			85	60	40	20	20	16
15	0	UNL	25			90	60	36	15	21	12
18	2	UNL	25			86	58	34	16	18	13
21	2	UNL	25			73	53	33	23	19	10
24	1	UNL	25			72	53	34	25	18	15
					APR 10th						
03	9	150	7			64	44	17	16	32	7
06	1	UNL	7			52	39	21	30	21	8
09	0	UNL	10			64	46	24	22	28	23
12	6	UNL	2		BD	71	52	34	26	30	24
15	4	UNL	2	8	BD	77	56	38	25	30	18
18	0	UNL	15			75	57	41	30	33	15
21	0	UNL	20			64	54	46	52	36	8
24	0	UNL	25			54	49	44	69	17	6
					APR 11th						
03	0	UNL	25			48	46	44	86	18	4
06	1	UNL	25			44	43	41	89	20	5
09	0	UNL	20			60	51	43	54	17	10
12	2	UNL	7			84	59	38	20	22	17
15	6	UNL	10			91	58	28	10	23	15
18	9	UNL	8			87	59	34	15	19	10
21	9	UNL	10			77	55	35	22	20	8
24	10	UNL	15			73	53	34	24	20	11
					APR 12th						
03	5	UNL	15			65	54	45	49	01	11
06	5	UNL	25			60	49	38	44	01	12
09	0	UNL	25			61	47	32	34	01	19
12	0	UNL	25			70	51	30	23	03	16
15	0	UNL	30			76	53	28	17	03	8
18	0	UNL	30			75	52	26	16	02	4
21	0	UNL	30			63	46	25	24	12	5
24	4	UNL	25			56	44	29	36	18	6
					APR 13th						
03	0	UNL	30			48	40	28	46	19	5
06	1	UNL	30			52	43	33	49	20	6
09	0	UNL	30			71	55	42	35	22	16
12	0	UNL	25			82	59	41	23	26	10
15	0	UNL	25			90	60	36	15	36	7
18	0	UNL	25			88	59	34	15	32	9
21	0	UNL	25			70	52	33	26	05	9
24	0	UNL	25			63	49	33	33	03	11
					APR 14th						
03	0	UNL	25			57	44	29	34	03	12
06	0	UNL	25			51	42	30	45	33	7
09	0	UNL	25			62	46	27	27	35	16
12	0	UNL	25			70	49	22	16	35	20
15	0	UNL	25			74	50	23	15	34	11
18	0	UNL	15			71	49	21	15	33	14
21	0	UNL	15			62	44	20	20	35	9
24	0	UNL	15			45	36	22	40	33	6
					APR 15th						
03	0	UNL	20			47	39	29	50	27	5
06	0	UNL	20			41	34	23	49	25	5
09	0	UNL	20			60	47	32	35	33	10
12	0	UNL	25			69	50	30	23	36	19
15	1	UNL	25			74	51	25	16	34	17
18	2	UNL	25			69	49	25	19	34	18
21	0	UNL	30			61	46	29	30	02	8
24	7	UNL	30			45	39	30	56	26	4
					APR 16th						
03	10	90	30			51	43	32	48	27	4
06	9	110	30			51	43	32	48	27	6
09	1	UNL	30			58	45	30	35	25	6
12	0	UNL	30			70	48	22	16	29	10
15	0	UNL	30			72	48	17	12	30	13
18	0	UNL	30			71	47	13	11	33	13
21	0	UNL	30			50	39	22	33	00	0
24	0	UNL	30			47	37	21	36	21	4
					APR 17th						
03	0	UNL	30			37	32	23	57	24	5
06	0	UNL	30			38	32	22	53	24	3
09	0	UNL	30			60	44	22	23	22	4
12	0	UNL	30			82	53	19	10	22	17
15	0	UNL	30			89	56	18	7	21	15
18	0	UNL	30			88	55	16	7	20	14
21	2	UNL	30			77	51	21	12	18	11
24	2	UNL	30			74	50	23	15	18	17
					APR 18th						
03	0	UNL	25			70	50	28	21	19	13
06	4	UNL	25			59	45	28	31	01	6
09	10	UNL	25			70	51	30	23	28	3
12	10	250	25			81	55	31	16	29	10
15	10	250	25			87	59	36	16	27	13
18	10	250	20			86	58	33	15	24	16
21	0	UNL	20			74	54	35	24	19	8
24	0	UNL	25			71	53	37	29	20	9

WEATHER CODES

*	TORNADO	ZL	FREEZING DRIZZLE	IPW	ICE PELLET SHOWERS	BN	BLOWING SAND
T	THUNDERSTORM	S	SNOW	A	HAIL	BS	BLOWING SNOW
Q	SQUALL	SW	SNOW SHOWERS	F	FOG	BY	BLOWING SPRAY
R	RAIN	SG	SNOW GRAINS	IF	ICE FOG	K	SMOKE
RW	RAIN SHOWERS	SP	SNOW PELLETS	GF	GROUND FOG	H	HAZE
ZR	FREEZING RAIN	IC	ICE CRYSTALS	BD	BLOWING DUST	D	DUST
L	DRIZZLE	IP	ICE PELLETS				

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (KPH=KNOTS X 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

APR 1984 SAN ANGELO, TEXAS 23034

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
	APR 19th										
03	0	UNL	25			68	53	38	33	23	8
06	4	UNL	30			58	49	39	49	28	7
09	8	UNL	30			67	52	38	35	32	8
12	6	UNL	12			75	60	49	40	04	8
15	10	UNL	15			85	60	41	21	34	5
18	10	UNL	15			85	59	38	19	03	6
21	6	UNL	20			73	56	42	33	08	8
24	7	250	20			70	55	42	36	13	6
	APR 20th										
03	0	UNL	20			64	54	46	52	11	4
06	0	UNL	20			70	57	47	44	18	17
09	0	UNL	20			80	60	46	30	21	12
12	1	UNL	25			93	59	28	10	24	11
15	0	UNL	25			96	59	23	7	23	23
18	0	UNL	10			90	58	27	10	32	16
21	0	UNL	5		BD	75	51	25	16	32	16
24	0	UNL	7			62	44	18	18	00	0
	APR 21st										
03	0	UNL	8			54	42	25	33	27	7
06	0	UNL	12			52	40	23	32	29	7
09	1	UNL	20			59	47	34	39	33	12
12	1	UNL	25			68	50	30	24	30	16
15	2	UNL	6		BD	74	52	28	18	32	15
18	3	UNL	4		BD	70	49	26	19	32	15
21	0	UNL	8			62	46	28	28	35	8
24	0	UNL	15			54	42	27	35	06	4
	APR 22nd										
03	1	UNL	25			40	36	29	65	30	4
06	6	UNL	25			45	38	28	52	32	6
09	1	UNL	25			55	44	30	39	36	8
12	0	UNL	25			68	50	30	24	36	10
15	0	UNL	25			74	52	27	17	30	11
18	0	UNL	25			74	52	27	17	30	8
21	0	UNL	25			55	45	34	45	00	0
24	0	UNL	25			60	46	30	32	04	6
	APR 23rd										
03	0	UNL	25			43	38	32	65	29	3
06	0	UNL	25			48	40	29	48	05	3
09	0	UNL	25			56	45	31	39	09	3
12	0	UNL	25			72	52	30	21	30	4
15	0	UNL	25			80	55	29	16	31	3
18	0	UNL	25			80	54	27	14	21	7
21	0	UNL	25			68	50	30	24	14	5
24	0	UNL	25			60	44	24	25	18	8
	APR 24th										
03	0	UNL	25			59	44	25	27	19	6
06	0	UNL	25			62	48	33	34	18	16
09	0	UNL	25			72	55	40	32	18	14
12	0	UNL	15			85	61	42	22	18	18
15	0	UNL	20			92	62	38	15	20	14
18	0	UNL	20			89	61	38	17	20	11
21	0	UNL	20			78	58	43	29	17	9
24	0	UNL	20			76	60	49	39	18	17
	APR 25th										
03	0	UNL	15			69	60	53	57	17	16
06	5	UNL	15			64	59	55	73	18	15
09	0	UNL	12			70	62	57	64	18	16
12	0	UNL	15			86	64	50	29	21	13
15	0	UNL	20			92	60	33	12	22	17
18	0	UNL	20			93	61	34	12	22	19
21	0	UNL	20			81	62	49	33	15	11
24	0	UNL	15			74	65	60	62	17	11
	APR 26th										
03	0	UNL	12			69	65	62	79	19	12
06	0	UNL	15			69	65	63	81	19	11
09	0	UNL	7			76	66	60	58	22	11
12	0	UNL	20			88	63	46	23	19	16
15	0	UNL	20			95	60	29	10	21	21
18	0	UNL	15			93	57	19	7	22	22
21	0	UNL	15			82	55	29	15	17	8
24	0	UNL	7			60	46	29	31	34	15
	APR 27th										
03	0	UNL	10			57	44	27	32	34	6
06	0	UNL	7			53	41	24	32	29	7
09	1	UNL	3		D	62	45	22	22	33	8
12	0	UNL	15			71	50	25	18	32	7
15	0	UNL	15			75	52	26	16	30	5
18	0	UNL	15			80	54	28	15	09	8
21	0	UNL	15			69	49	25	19	08	5
24	0	UNL	15			62	46	25	24	00	0
	APR 28th										
03	0	UNL	15			48	41	31	52	00	0
06	4	UNL	15			54	44	32	43	06	7
09	10	250	12			63	51	40	43	06	7
12	10	250	8			72	60	51	48	05	10
15	10	250	10			81	65	55	41	06	12
18	10	250	10			84	67	57	40	10	14
21	10	250	10			79	66	59	51	12	8
24	10	150	10			75	66	60	60	13	11
	APR 29th										
03	10	150	8			74	68	64	71	15	18
06	10	20	8		RW	73	57	45	37	27	22
09	6	UNL	4		BD	65	48	27	24	26	25
12	1	UNL	6		D	72	49	22	15	27	24
15	0	UNL	10			78	52	24	13	25	20
18	3	UNL	15			77	52	25	15	28	11
21	1	UNL	20			61	45	23	23	22	5
24	0	UNL	15			62	47	31	31	05	6
	APR 30th										
03	0	UNL	20			56	45	33	42	04	6
06	4	UNL	25			52	44	34	51	04	7
09	9	UNL	25			56	46	35	45	11	9
12	4	UNL	20			69	52	36	30	05	9
15	0	UNL	10			79	55	31	17	08	8
18	0	UNL	10			81	55	29	15	14	10
21	0	UNL	10			72	51	29	20	09	11
24	0	UNL	7			66	49	31	27	14	7

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES TEMPERATURE AIR TEMP °F	AVERAGES TEMPERATURE WET BULB °F	AVERAGES TEMPERATURE DEW POINT °F	AVERAGES REL HUMIDITY %	AVERAGES WIND SPEED (MPH)	RESULTANT WIND DIRECTION	RESULTANT WIND SPEED (MPH)
03	2	27.860	55	46	36	53	9.2	20	2.9
06	3	27.880	53	45	36	56	9.6	24	3.9
09	3	27.930	62	50	37	41	13.5	27	4.0
12	3	27.910	74	54	35	28	15.6	28	5.6
15	2	27.830	80	56	32	19	15.5	26	7.7
18	2	27.795	79	55	31	19	14.6	26	4.9
21	2	27.830	67	51	34	31	9.2	14	2.7
24	2	27.855	61	48	34	39	9.4	17	4.5

MAY 1984
SAN ANGELO, TEXAS
NAT'L WEA SER OFC
RT. 5, BOX 5235

ISSN 0198-5175

LOCAL CLIMATOLOGICAL DATA
Monthly Summary

MATHIS FIELD

LATITUDE 31°22' LONGITUDE 100°30' ELEVATION (GROUND) 1903 FEET TIME ZONE CENTRAL 23034

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F HEATING (SEASON BEGINS WITH JUL) 7A	COOLING (SEASON BEGINS WITH JAN) 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0600 INCHES 9	PRECIPITATION WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 1908 FEET ABOVE M.S.L. 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	FASTEST MILE SPEED 16	DIRECTION 17	SUNSHINE MINUTES 18	PERCENT OF TOTAL POSSIBLE 19	SKY COVER (TENTHS) SUNRISE TO SUNSET 20	MIDNIGHT TO MIDNIGHT 21	DATE 22
01	80	60	70	0	52	0	5		0	0.00	0.0	27.870	16	10.4	11.5	20	16			8	5	01
02	91	63	77	6	40	0	12		0	0.00	0.0	27.680	25	13.2	14.3	24	26			4	2	02
03	91	57	74	3	38	0	9		0	0.00	0.0	27.740	27	4.8	8.2	14	27			0	0	03
04	102	62	82	11	36	0	17		0	0.00	0.0	27.680	19	10.8	11.9	23	18			0	0	04
05	103	67	85	14	44	0	20		0	0.00	0.0	27.610	22	6.7	9.4	17	19			0	0	05
06	104	62	83	12	43	0	18		0	0.00	0.0	27.680	25	5.9	8.3	15	29			0	0	06
07	85	61	73	1	45	0	8		0	0.00	0.0	27.980	01	11.0	14.2	25	03			0	0	07
08	76	46	61*	-11	28	4	0		0	0.00	0.0	28.340	03	7.9	9.8	20	01			0	0	08
09	84	44*	64	-8	25	1	0		0	0.00	0.0	28.130	18	9.7	9.9	15	19			0	0	09
10	93	59	76	4	42	0	11		0	0.00	0.0	27.895	18	15.9	16.1	22	17			0	0	10
11	97	64	81	8	54	0	16		0	0.00	0.0	27.850	19	13.8	14.2	20	19			8	6	11
12	93	67	80	7	53	0	15		0	0.00	0.0	27.990	16	8.9	9.3	14	17			0	0	12
13	90	67	79	6	55	0	14		0	0.00	0.0	28.080	16	8.2	9.7	17	19			1	3	13
14	90	62	76	3	56	0	11		0	0.00	0.0	28.090	16	7.0	8.4	16	18			8	8	14
15	86	63	75	1	50	0	10		0	0.00	0.0	28.025	13	8.7	9.5	17	13			8	8	15
16	75	65	70	-4	61	0	5		0	0.04	0.0	28.030	13	9.1	9.6	17	13			10	10	16
17	77	64	71	-3	62	0	6		0	0.10	0.0	28.080	11	9.4	9.9	18	14			10	10	17
18	82	63	73	-1	63	0	8	1 3	0	0.35	0.0	28.025	15	7.1	8.0	13	17			10	10	18
19	85	63	74	0	63	0	9	1 3	0	T	0.0	27.920	32	3.4	5.0	10	32			7	6	19
20	90	59	75	0	52	0	10		0	0.00	0.0	27.860	34	6.7	9.0	15	35			4	3	20
21	97	55	76	1	54	0	11		0	0.00	0.0	27.700	16	3.9	5.6	13	15			4	4	21
22	107*	66	87*	12	56	0	22		0	0.00	0.0	27.750	23	4.5	9.1	17	21			0	0	22
23	89	75	82	6	66	0	17		0	0.00	0.0	28.100	07	7.8	8.8	16	05			9	8	23
24	95	69	82	6	63	0	17		0	0.00	0.0	27.980	18	11.2	11.5	18	18			9	7	24
25	98	73	86	10	61	0	21		0	0.00	0.0	27.810	19	12.4	13.0	22	20			10	8	25
26	95	73	84	8	61	0	19		0	0.00	0.0	27.890	16	10.0	10.6	16	18			0	0	26
27	95	73	84	7	62	0	19		0	0.00	0.0	27.940	17	11.6	13.4	17	16			2	1	27
28	81	64	73	-4	60	0	6	3	0	0.05	0.0	28.190	05	9.5	11.2	18	14			10	7	28
29	78	53	66	-11	42	0	1		0	0.00	0.0	28.330	05	10.2	11.5	16	04			3	3	29
30	83	54	69	-9	44	0	4		0	0.00	0.0	28.210	13	5.4	6.8	10	19			2	1	30
31	90	57	74	-4	46	0	9		0	0.00	0.0	28.045	18	11.3	11.5	17	18			0	0	31
	SUM 2782	SUM 1930				TOTAL 5	TOTAL 352	NUMBER OF DAYS		TOTAL 0.54	TOTAL 0.0	FOR THE MONTH: 27.950	17	4.6	10.3	25	03	TOTAL	% FOR MONTH	SUN 127	SUN 110	
	AVG. 89.7	AVG. 62.3	AVG. 76.0	DEP. 2.1	AVG. 50.8	DEP. 0	DEP. 71	PRECIPITATION ≥ .01 INCH 4		DEP. -1.98						DATE: 7		POSSIBLE		AVG. 4.1	AVG. 3.5	

NUMBER OF DAYS				SEASON TO DATE	
MAXIMUM TEMP. ≥ 90°	MAXIMUM TEMP. ≤ 32°	MINIMUM TEMP. ≤ 32°	MINIMUM TEMP. ≤ 0°	TOTAL 2668	TOTAL 470
18	0	0	0	DEP. 355	DEP. 20

SNOW, ICE PELLETS ≥ 1.0 INCH	0
THUNDERSTORMS	3
HEAVY FOG	0
CLEAR 16 PARTLY CLOUDY 4 CLOUDY 11	

GREATEST IN 24 HOURS AND DATES		
PRECIPITATION		SNOW, ICE PELLETS
0.35	18-19	0.0

GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
0	

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D. Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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MAY 1984
SAN ANGELO, TEXAS

OBSERVATIONS AT 3-HOUR INTERVALS

MAY 1984 SAN ANGELO, TEXAS 23034

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					MAY 1st						
03	3	UNL	7			62	50	37	40	14	6
06	9	21	10			61	50	39	44	08	4
09	10	50	12			68	58	50	53	14	13
12	10	25	12			71	63	57	61	14	13
15	10	25	12			75	66	61	62	17	15
18	0	UNL	12			79	67	60	52	17	13
21	0	UNL	15			74	64	57	56	18	10
24	0	UNL	12			68	61	56	66	19	6
					MAY 2nd						
03	0	UNL	12			66	61	58	76	18	8
06	0	UNL	10			63	61	59	87	20	6
09	10	250	12			77	59	45	32	25	16
12	6	UNL	20			87	57	29	12	27	15
15	0	UNL	20			90	59	30	12	25	20
18	0	UNL	20			88	58	31	13	27	18
21	0	UNL	15			79	54	28	15	25	9
24	0	UNL	15			70	50	28	21	27	8
					MAY 3rd						
03	4	UNL	20			65	49	32	29	25	8
06	0	UNL	20			58	47	36	44	26	7
09	0	UNL	20			70	58	48	46	31	4
12	0	UNL	20			82	61	45	27	32	9
15	0	UNL	25			89	61	40	18	32	5
18	0	UNL	25			88	60	37	16	30	8
21	0	UNL	25			74	54	34	23	17	6
24	0	UNL	25			68	50	32	26	17	8
					MAY 4th						
03	0	UNL	25			64	49	32	30	18	8
06	0	UNL	20			66	51	35	32	18	14
09	0	UNL	20			79	61	47	33	18	20
12	0	UNL	20			94	61	35	13	22	12
15	0	UNL	20			100	62	31	9	23	9
18	0	UNL	25			100	63	33	10	18	7
21	0	UNL	25			82	58	38	21	18	7
24	0	UNL	25			74	55	37	26	19	5
					MAY 5th						
03	0	UNL	20			80	62	49	34	18	12
06	0	UNL	7			74	62	53	48	19	11
09	0	UNL	10			83	68	59	44	22	14
12	0	UNL	15			96	64	41	15	28	7
15	0	UNL	20			102	65	37	11	27	6
18	0	UNL	30			99	64	38	12	28	7
21	0	UNL	25			82	57	36	19	18	6
24	0	UNL	25			71	54	39	31	23	6
					MAY 6th						
03	0	UNL	25			74	60	50	43	23	7
06	0	UNL	25			69	62	57	66	24	8
09	0	UNL	10			85	67	57	39	23	12
12	0	UNL	30			101	65	38	11	28	9
15	0	UNL	30			103	64	34	9	28	9
18	0	UNL	30			99	65	42	14	28	8
21	0	UNL	25			80	57	36	21	17	4
24	0	UNL	25			68	53	39	35	20	5
					MAY 7th						
03	0	UNL	25			73	55	39	29	15	7
06	0	UNL	15			67	55	44	44	25	5
09	0	UNL	15			76	61	51	42	02	7
12	0	UNL	15			82	65	55	40	36	16
15	0	UNL	15			84	64	51	32	36	15
18	0	UNL	15			80	59	42	26	01	16
21	0	UNL	15			70	54	40	34	03	18
24	0	UNL	15			61	50	39	44	02	16
					MAY 8th						
03	0	UNL	25			54	44	32	43	03	15
06	0	UNL	25			51	44	35	55	02	5
09	0	UNL	25			57	46	32	39	03	8
12	0	UNL	25			68	49	26	21	05	11
15	0	UNL	25			75	51	21	13	03	9
18	0	UNL	25			72	50	23	16	01	7
21	0	UNL	25			53	41	26	35	10	5
24	0	UNL	25			54	41	22	29	16	7
					MAY 9th						
03	0	UNL	25			49	38	20	32	16	7
06	0	UNL	25			51	38	18	27	18	7
09	0	UNL	25			67	48	25	20	18	12
12	0	UNL	25			78	53	26	15	19	10
15	0	UNL	25			84	56	29	14	21	9
18	0	UNL	25			82	56	30	15	18	12
21	0	UNL	25			70	50	28	21	17	7
24	0	UNL	25			65	48	27	24	17	12
					MAY 10th						
03	0	UNL	25			62	47	29	29	19	12
06	0	UNL	30			60	47	31	34	19	12
09	0	UNL	20			69	57	47	46	17	19
12	0	UNL	20			81	63	50	34	17	14
15	0	UNL	20			92	65	48	22	17	13
18	0	UNL	20			89	64	47	23	18	15
21	0	UNL	20			79	61	47	33	18	14
24	0	UNL	20			74	58	45	36	17	14
					MAY 11th						
03	0	UNL	15			68	59	52	57	18	15
06	0	UNL	20			64	58	54	70	20	15
09	6	UNL	15			72	62	56	57	20	13
12	10	UNL	15			87	67	56	35	21	15
15	10	UNL	15			96	70	55	25	19	12
18	10	UNL	20			93	68	53	26	18	13
21	10	UNL	20			83	65	54	37	17	10
24	0	UNL	25			76	62	52	43	17	6
					MAY 12th						
03	0	UNL	25			70	61	54	57	15	4
06	0	UNL	25			67	63	60	78	18	12
09	0	UNL	25			73	63	57	57	17	12
12	0	UNL	25			85	66	55	36	17	12
15	0	UNL	25			92	67	51	25	17	9
18	0	UNL	25			90	63	44	20	13	9
21	0	UNL	25			80	60	45	29	13	7
24	0	UNL	25			75	62	53	46	17	6
					MAY 13th						
03	0	UNL	25			71	65	61	71	18	10
06	0	UNL	25			68	64	61	78	17	9
09	0	UNL	20			74	65	60	62	19	10
12	2	UNL	20			84	66	56	38	18	7
15	0	UNL	30			89	66	51	27	12	7
18	5	UNL	30			89	64	47	23	09	7
21	10	UNL	25			81	62	48	32	13	8
24	8	UNL	25			76	60	49	39	14	7
					MAY 14th						
03	8	UNL	25			72	66	62	71	18	10
06	6	UNL	25			64	62	60	87	23	3
09	9	UNL	20			76	67	62	62	14	5
12	7	UNL	20			85	65	53	33	14	12
15	8	UNL	20			89	63	45	22	13	10
18	10	250	25			88	64	47	24	11	10
21	10	UNL	25			75	66	61	62	17	10
24	10	UNL	25			71	64	60	68	19	4
					MAY 15th						
03	6	UNL	25			65	61	59	81	19	3
06	10	250	25			64	60	58	81	07	5
09	10	120	25			70	65	62	76	00	0
12	10	120	20			82	62	47	29	15	11
15	10	120	30			84	59	39	20	15	11
18	2	UNL	30			82	58	38	21	13	12
21	9	100	25			77	58	43	30	12	10
24	10	75	25			75	63	56	52	13	15
					MAY 16th						
03	10	75	25			73	64	59	62	14	8
06	10	90	25			69	62	58	68	14	6
09	10	100	20			71	64	60	68	14	10
12	10	65	10		R	66	64	62	87	10	7
15	10	50	10			70	66	64	81	13	14
18	10	50	10			73	67	63	71	11	8
21	10	50	15			67	65	64	90	13	8
24	10	28	25			66	65	64	93	10	9
					MAY 17th						
03	10	30	25			67	63	61	81	12	10
06	10	38	20			66	63	61	84	07	5
09	10	26	15			68	63	59	73	08	9
12	10	50	15			73	65	60	64	13	9
15	10	40	15		RW	70	67	65	84	14	8
18	10	50	10		RW	67	65	64	90	10	10
21	10	22	15			65	64	63	93	10	6
24	10	32	15			64	63	63	97	09	5
					MAY 18th						
03	10	17	7		R	65	64	63	93	14	7
06	10	41	15			64	63	62	93	10	7
09	10	14	15			69	66	64	84	13	7
12	9	38	30			75	67	63	66	18	5
15	10	40	30			79	69	64	60	18	11
18	10	120	25			75	68	64	69	17	11
21	10	250	25			70	66	64	81	15	7
24	10	41	4		TRWF	63	63	63	100	16	3

WEATHER CODES

*	TORNADO	ZL	FREEZING DRIZZLE	IPW	ICE PELLET SHOWERS	BN	BLOWING SAND
T	THUNDERSTORM	S	SNOW	A	HAIL	BS	BLOWING SNOW
Q	SQUALL	SW	SNOW SHOWERS	F	FOG	BY	BLOWING SPRAY
R	RAIN	SG	SNOW GRAINS	IF	ICE FOG	K	SMOKE
RW	RAIN SHOWERS	SP	SNOW PELLETS	GF	GROUND FOG	H	HAZE
ZR	FREEZING RAIN	IC	ICE CRYSTALS	BD	BLOWING DUST	D	DUST
L	DRIZZLE	IP	ICE PELLETS				

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS IMPH=KNOTS X 1.151.

OBSERVATIONS AT 3-HOUR INTERVALS

MAY 1984 23034
SAN ANGELO, TEXAS

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
MAY 19th											
03	10	19	25			64	63	63	97	00	0
06	10	21	12			65	64	64	97	03	4
09	10	14	15			70	67	66	87	00	0
12	10	21	15			75	69	66	74	33	5
15	7	38	20			81	70	64	56	33	8
18	2	UNL	20			84	70	63	49	31	7
21	0	UNL	20			74	67	63	69	28	6
24	0	UNL	30			72	61	54	53	32	9
MAY 20th											
03	0	UNL	30			65	59	54	68	32	8
06	0	UNL	30			61	57	53	75	28	4
09	0	UNL	30			72	62	55	55	33	11
12	1	UNL	30			81	64	54	39	32	10
15	8	UNL	30			88	64	48	25	33	11
18	10	UNL	30			87	62	45	23	35	10
21	2	UNL	25			75	61	52	45	08	5
24	0	UNL	30			70	59	50	49	13	4
MAY 21st											
03	6	UNL	30			59	56	53	81	00	0
06	4	UNL	25			57	55	53	87	00	0
09	7	UNL	25			73	63	56	55	06	4
12	5	UNL	25			90	67	54	29	18	10
15	5	UNL	30			95	67	50	22	20	5
18	0	UNL	30			96	67	50	21	24	5
21	0	UNL	30			84	66	55	37	12	7
24	0	UNL	25			80	65	56	44	16	8
MAY 22nd											
03	0	UNL	20			73	64	59	62	18	6
06	0	UNL	20			66	64	62	87	19	4
09	0	UNL	10			83	72	66	57	20	13
12	0	UNL	20			98	67	47	18	27	12
15	0	UNL	20			107	70	49	14	33	7
18	0	UNL	20			102	70	51	18	31	8
21	0	UNL	25			88	67	55	33	31	6
24	0	UNL	15			82	72	67	61	10	6
MAY 23rd											
03	6	19	15			77	73	71	82	08	7
06	8	19	10			75	72	70	85	07	6
09	8	50	10			79	73	70	74	06	6
12	10	30	10			82	71	66	59	04	8
15	8	55	12			89	72	63	42	09	6
18	10	250	15			87	71	62	43	07	7
21	10	UNL	15			82	70	63	53	11	4
24	10	UNL	15			76	67	62	62	16	5
MAY 24th											
03	4	UNL	15			73	68	65	76	15	6
06	7	UNL	8			70	67	65	84	17	9
09	10	UNL	8			80	72	68	67	19	13
12	10	UNL	10			88	72	65	47	16	11
15	10	UNL	15			93	72	62	36	18	7
18	9	UNL	15			92	70	59	33	16	10
21	0	UNL	20			83	68	59	44	17	6
24	0	UNL	20			78	67	60	54	19	11
MAY 25th											
03	6	UNL	20			75	67	62	64	22	11
06	10	250	15			73	66	62	69	18	13
09	10	UNL	20			79	69	64	60	19	15
12	10	UNL	20			90	73	65	44	20	13
15	10	UNL	20			96	72	60	30	22	7
18	10	UNL	20			96	71	58	28	18	8
21	5	UNL	25			88	70	60	39	16	9
24	1	UNL	25			82	67	59	46	19	10
MAY 26th											
03	0	UNL	25			77	66	59	54	17	11
06	0	UNL	20			73	68	65	76	15	6
09	0	UNL	20			78	70	66	67	17	8
12	0	UNL	25			89	73	65	45	19	8
15	0	UNL	25			95	71	59	30	12	12
18	0	UNL	25			93	68	54	27	12	8
21	0	UNL	25			86	68	57	37	15	12
24	0	UNL	30			80	67	60	51	17	6
MAY 27th											
03	0	UNL	20			76	70	67	74	15	13
06	1	UNL	20			73	69	67	82	18	9
09	6	30	25			77	70	66	69	19	13
12	0	UNL	25			86	72	65	50	19	12
15	0	UNL	25			93	71	59	32	18	12
18	0	UNL	25			91	69	56	31	17	14
21	0	UNL	25			85	67	57	39	18	7
24	3	UNL	25			80	66	57	45	04	8
MAY 28th											
03	4	UNL	25			77	67	61	58	14	16
06	10	32	15		TRW	70	66	64	81	04	12
09	10	50	15			67	66	66	97	00	0
12	10	30	15			73	68	66	79	05	8
15	10	41	20			75	67	62	64	04	12
18	10	50	20			76	65	58	54	06	11
21	2	UNL	20			71	59	49	46	04	10
24	0	UNL	25			64	57	51	63	04	10
MAY 29th											
03	6	UNL	25			59	54	50	72	04	12
06	4	UNL	25			54	50	47	77	03	11
09	9	UNL	25			57	50	44	62	04	14
12	3	UNL	25			68	54	42	39	06	8
15	0	UNL	25			76	56	37	24	05	10
18	0	UNL	25			77	55	34	21	07	10
21	0	UNL	25			67	53	39	36	09	6
24	0	UNL	25			63	52	41	45	10	8
MAY 30th											
03	0	UNL	25			56	49	42	60	07	5
06	7	75	25			55	50	45	69	04	4
09	2	UNL	25			65	53	43	45	13	8
12	0	UNL	25			72	57	45	38	16	3
15	0	UNL	25			81	61	46	29	19	9
18	0	UNL	25			82	60	44	26	11	8
21	0	UNL	25			73	56	42	33	13	7
24	0	UNL	25			64	54	46	52	17	5
MAY 31st											
03	0	UNL	25			61	52	44	54	17	8
06	0	UNL	25			60	51	43	54	18	8
09	0	UNL	25			70	57	46	42	18	13
12	0	UNL	25			80	62	49	34	18	10
15	0	UNL	25			88	64	48	25	20	13
18	0	UNL	25			86	63	47	26	19	13
21	0	UNL	25			76	59	47	36	18	8
24	0	UNL	25			70	58	48	46	16	8

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES: SKY COVER (TENTHS)	AVERAGES: STATION PRESSURE (INCHES)	AVERAGES: TEMPERATURE AIR TEMP °F	AVERAGES: TEMPERATURE WET BULB °F	AVERAGES: TEMPERATURE DEW POINT °F	AVERAGES: REL HUMIDITY %	AVERAGES: WIND SPEED (MPH)	RESULTANT WIND: DIRECTION	RESULTANT WIND: SPEED (MPH)
03	3	27.950	67	59	52	60	9.6	16	6.0
06	4	27.970	64	58	53	69	8.6	17	4.1
09	5	28.010	73	63	55	57	11.5	18	6.3
12	4	27.990	82	64	52	40	11.6	19	4.1
15	4	27.930	88	65	49	31	11.5	18	3.9
18	3	27.890	87	64	48	30	11.5	15	3.6
21	3	27.920	77	61	49	41	9.1	15	5.5
24	2	27.950	71	59	50	50	8.9	15	4.8

JUN 1984
SAN ANGELO, TEXAS
NAT'L WEA SER OFC
RT. 5, BOX 5235

ISSN 0198-5175

LOCAL CLIMATOLOGICAL DATA
Monthly Summary

MATHIS FIELD

LATITUDE 31°22' LONGITUDE 100°30' ELEVATION (GROUND) 1903 FEET TIME ZONE CENTRAL 23034

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F HEATING (SEASON BEGINS WITH JUL) 7A	COOLING (SEASON BEGINS WITH JAN) 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0600 INCHES 9	PRECIPITATION WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 1908 FEET ABOVE M.S.L. 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	FASTEST MILE SPEED 16	FASTEST MILE DIRECTION 17	SUNSHINE MINUTES 18	PERCENT OF TOTAL POSSIBLE 19	SKY COVER (TENTHS) SUNRISE TO SUNSET 20	MIDNIGHT TO MIDNIGHT 21	DATE 22
01	91	60*	76	-2	52	0	11		0	0.00	0.0	27.940	18	12.7	12.9	17	18			0	0	01
02	91	66	79	1	56	0	14		0	0.00	0.0	28.000	16	5.7	7.3	14	18			6	5	02
03	83	66	75	-4	58	0	10		0	T	0.0	27.935	19	9.9	10.6	18	19			9	7	03
04	87	62	75	-4	62	0	10	3	0	0.34	0.0	27.810	17	7.2	8.6	17	19			9	6	04
05	93	68	81	2	63	0	16	3	0	0.10	0.0	27.790	18	13.6	14.3	20	20			5	5	05
06	92	69	81	1	65	0	16	3	0	T	0.0	27.830	18	12.1	12.6	20	20			6	8	06
07	96	76	86	6	68	0	21		0	0.00	0.0	27.810	18	15.4	16.1	20	20			10	9	07
08	89	76	83	3	70	0	18		0	0.00	0.0	27.850	17	14.6	14.8	21	16			8	7	08
09	94	75	85	5	68	0	20		0	0.00	0.0	27.830	18	13.1	13.2	22	19			6	4	09
10	90	75	83	2	66	0	18		0	0.00	0.0	27.910	16	12.0	12.4	16	14			9	8	10
11	91	74	83	2	65	0	18		0	0.00	0.0	27.950	16	12.1	12.4	17	17			9	9	11
12	93	74	84	3	65	0	19		0	0.00	0.0	27.960	16	14.7	15.0	21	17			5	6	12
13	91	71	81	0	63	0	16		0	0.00	0.0	28.040	16	10.7	11.2	17	18			8	9	13
14	91	73	82	1	63	0	17		0	0.00	0.0	28.050	16	10.2	10.5	20	17			8	7	14
15	93	72	83	1	63	0	18		0	0.00	0.0	28.020	17	9.8	10.1	13	16			7	7	15
16	94	72	83	1	62	0	18		0	0.00	0.0	27.990	17	10.6	10.9	14	20			3	3	16
17	94	72	83	1	61	0	18		0	0.00	0.0	27.970	17	10.9	11.2	18	17			3	3	17
18	93	71	82	0	60	0	17		0	0.00	0.0	27.980	17	7.5	7.9	12	15			3	3	18
19	95	73	84	2	61	0	19		0	0.00	0.0	28.000	16	9.2	9.7	16	16			3	3	19
20	92	73	83	1	61	0	18		0	0.00	0.0	28.030	18	12.7	12.8	18	18			5	3	20
21	95	73	84	1	64	0	19		0	0.00	0.0	28.000	17	11.6	11.7	18	18			3	2	21
22	99	73	86	3	59	0	21		0	0.00	0.0	27.940	17	10.5	10.6	17	16			0	0	22
23	101	74	88	5	60	0	23		0	0.00	0.0	27.950	16	7.1	8.4	14	17			0	0	23
24	99	74	87	4	61	0	22		0	0.00	0.0	28.070	06	5.2	7.3	13	07			2	1	24
25	103	72	88	5	62	0	23		0	0.00	0.0	28.020	13	2.6	6.2	14	17			2	2	25
26	103*	77	90*	7	61	0	25		0	0.00	0.0	27.875	18	8.3	10.1	15	18			1	2	26
27	97	73	85	2	68	0	20	3	0	0.09	0.0	27.900	10	2.9	7.5	15	19			8	7	27
28	78	69	74*	-9	70	0	9	3	0	2.29	0.0	28.020	14	4.0	5.7	13	14			9	9	28
29	95	67	81	-3	65	0	16		0	0.00	0.0	27.960	21	3.5	4.7	9	18			1	1	29
30	94	72	83	-1	63	0	18		0	0.00	0.0	27.920	06	7.1	7.6	13	04			1	1	30
	SUM 2797	SUM 2142				TOTAL 0	TOTAL 528	NUMBER OF DAYS		TOTAL 2.82	TOTAL 0.0	FOR THE MONTH: 27.950	17	8.8	10.5	22	19	TOTAL	% POS HOURS	SUM 149	SUM 137	
	AVG. 93.2	AVG. 71.4	AVG. 82.3	DEP. 0.9	AVG. 62.7	DEP. 0	DEP. 36	PRECIPITATION > .01 INCH 4		DEP. 0.94						DATE: 9		POSSIBLE		AVG. 5.0	AVG. 4.6	

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL
MAXIMUM TEMP.		MINIMUM TEMP.			
> 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.
26	0	0	0	355	56

SNOW, ICE PELLETS > 1.0 INCH	0
THUNDERSTORMS	5
HEAVY FOG	0
CLEAR 13 PARTLY CLOUDY 7 CLOUDY 10	

GREATEST IN 24 HOURS AND DATES		
PRECIPITATION		SNOW, ICE PELLETS
2.37	27-28	0.0

GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE
0

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND NOTED IN SUBSEQUENT PUBLICATIONS.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D. Wadell
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

JUN 1984
SAN ANGELO, TEXAS

OBSERVATIONS AT 3-HOUR INTERVALS

JUN 1984 23034
SAN ANGELO, TEXAS

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					JUN 1st						
03	0	UNL	25			65	55	47	52	19	10
06	0	UNL	25			61	55	51	70	20	11
09	0	UNL	20			71	61	55	57	18	14
12	0	UNL	20			81	65	56	42	17	12
15	0	UNL	20			90	67	53	28	18	14
18	0	UNL	20			88	65	51	28	18	14
21	0	UNL	25			79	61	49	35	16	10
24	0	UNL	30			74	61	51	45	17	8
					JUN 2nd						
03	3	UNL	20			69	60	54	59	17	8
06	8	UNL	15			66	61	57	73	00	0
09	6	UNL	12			71	64	59	66	16	10
12	8	UNL	15			80	67	60	51	23	6
15	5	UNL	15			88	69	58	36	21	4
18	7	UNL	20			88	66	52	29	07	3
21	6	UNL	20			81	63	50	34	13	6
24	8	UNL	25			75	62	53	46	18	7
					JUN 3rd						
03	5	UNL	25			69	60	54	59	17	5
06	6	UNL	25			67	62	58	73	20	8
09	10	UNL	15			74	65	60	62	18	14
12	10	140	15			79	67	60	52	20	13
15	10	140	15			75	67	62	64	26	11
18	10	250	15			81	67	59	47	18	12
21	5	UNL	25			76	65	58	54	17	8
24	2	UNL	25			67	60	55	66	18	4
					JUN 4th						
03	2	UNL	25			67	61	57	70	18	7
06	10	19	15			70	66	64	81	12	5
09	10	25	12		TRW	63	62	61	93	23	11
12	10	150	25			70	67	66	87	20	7
15	10	250	30			84	69	61	46	18	9
18	5	UNL	30			84	70	62	48	17	10
21	2	UNL	25			74	68	65	74	17	6
24	2	UNL	25			71	69	68	90	12	6
					JUN 5th						
03	2	UNL	20			71	68	66	84	17	14
06	7	250	15			68	66	65	90	18	11
09	10	UNL	12			74	69	66	76	17	17
12	7	250	12			83	72	66	57	19	16
15	2	UNL	20			93	72	61	35	20	11
18	2	UNL	25			92	70	58	32	18	14
21	10	50	20		T	82	65	55	40	24	10
24	10	45	15		TRW	72	68	66	82	14	6
					JUN 6th						
03	10	110	25			76	69	65	69	16	9
06	9	110	25			69	64	61	76	16	7
09	10	20	20			75	70	68	79	18	12
12	7	38	20			86	73	67	53	19	15
15	1	UNL	20			92	74	65	41	17	15
18	6	UNL	20			91	71	61	37	19	12
21	9	UNL	20			84	71	64	51	16	10
24	9	UNL	15			81	71	66	60	18	15
					JUN 7th						
03	6	UNL	12			77	72	70	79	17	14
06	10	UNL	7			76	72	70	82	16	16
09	10	UNL	10			81	73	69	67	20	17
12	10	UNL	12			89	74	68	50	20	16
15	10	UNL	20			95	75	67	40	21	13
18	10	UNL	20			93	74	65	40	19	11
21	8	UNL	20			88	74	67	50	17	12
24	8	UNL	15			82	72	68	63	17	13
					JUN 8th						
03	7	UNL	12			78	73	70	77	16	18
06	10	20	15			76	71	69	79	18	11
09	10	28	12			78	73	70	77	18	14
12	10	32	15			85	75	70	61	19	15
15	9	45	15			86	75	71	61	19	15
18	2	UNL	15			84	74	70	63	17	14
21	6	UNL	15			83	72	67	59	19	7
24	2	UNL	20			80	73	69	69	16	12
					JUN 9th						
03	3	UNL	15			77	72	70	79	18	12
06	10	25	15			75	70	68	79	17	11
09	8	32	12			80	73	69	69	18	14
12	5	UNL	15			88	75	70	55	19	19
15	3	UNL	15			94	75	67	41	17	10
18	2	UNL	20			92	74	66	42	17	11
21	0	UNL	20			86	72	66	51	18	11
24	0	UNL	25			82	71	66	59	17	7
					JUN 10th						
03	8	250	20			77	72	70	79	14	8
06	10	22	15			75	70	68	79	17	11
09	10	28	15			75	69	66	74	17	11
12	9	45	15			84	72	66	55	18	9
15	8	55	20			89	73	66	47	16	12
18	10	UNL	20			88	71	63	43	16	13
21	10	UNL	20			85	70	63	48	15	10
24	6	UNL	25			79	72	68	69	14	11
					JUN 11th						
03	10	250	20			75	70	68	79	14	10
06	10	30	20			74	69	67	79	15	7
09	6	UNL	20			78	70	66	67	16	11
12	10	250	20			85	72	65	51	14	10
15	9	60	20			90	72	64	42	17	15
18	8	UNL	20			89	71	62	41	15	10
21	10	UNL	20			85	70	62	46	14	10
24	8	UNL	20			79	70	66	65	15	11
					JUN 12th						
03	9	UNL	20			74	69	67	79	15	9
06	10	38	20			74	69	67	79	17	8
09	6	UNL	20			80	70	65	60	17	16
12	1	UNL	30			87	72	64	46	17	16
15	3	UNL	30			91	72	63	39	16	15
18	3	UNL	25			92	71	60	34	17	13
21	5	UNL	25			83	72	66	57	14	16
24	3	UNL	25			75	69	66	74	17	15
					JUN 13th						
03	9	UNL	25			73	69	67	82	14	8
06	7	UNL	25			73	68	66	79	13	4
09	7	UNL	25			78	69	64	62	17	12
12	10	250	25			85	71	64	50	18	9
15	10	250	25			88	70	60	39	14	12
18	10	250	25			86	70	61	43	18	15
21	10	250	25			81	68	61	51	18	13
24	10	100	25			77	69	65	67	15	11
					JUN 14th						
03	10	100	25			75	69	66	74	15	9
06	10	120	20			73	69	67	82	11	4
09	10	22	20			75	70	67	76	18	8
12	8	30	25			84	71	65	53	15	10
15	7	120	25			89	71	61	39	17	10
18	5	UNL	25			90	69	58	34	15	14
21	5	UNL	25			82	68	61	49	16	10
24	1	UNL	25			78	68	63	60	13	9
					JUN 15th						
03	10	120	25			74	68	64	71	16	7
06	10	130	20			73	69	67	82	18	8
09	10	150	20			75	69	66	74	18	10
12	1	UNL	15			86	71	64	48	18	10
15	5	UNL	15			92	71	60	34	16	9
18	10	80	20			90	70	59	35	15	8
21	7	80	20			85	69	60	43	16	10
24	2	UNL	25			81	69	63	54	16	11
					JUN 16th						
03	2	UNL	25			76	68	64	67	17	10
06	0	UNL	25			72	68	65	79	18	8
09	0	UNL	20			79	71	67	67	18	9
12	5	UNL	20			87	71	63	45	18	10
15	5	UNL	20			93	71	59	32	18	10
18	2	UNL	20			91	69	57	32	16	10
21	6	UNL	20			85	68	58	40	16	10
24	9	UNL	25			80	67	60	51	16	5
					JUN 17th						
03	3	UNL	25			76	68	63	64	16	9
06	3	UNL	25			72	68	66	82	20	8
09	0	UNL	15			79	69	63	58	17	16
12	2	UNL	20			87	70	61	42	18	14
15	5	UNL	20			92	70	59	33	15	8
18	2	UNL	20			92	69	57	31	17	8
21	6	UNL	20			85	67	56	37	16	8
24	3	UNL	25			79	65	57	47	16	6
					JUN 18th						
03	0	UNL	25			75	66	61	62	17	9
06	0	UNL	25			72	68	66	82	18	4
09	0	UNL	25			80	70	65	60	17	7
12	5	UNL	25			88	70	61	40	21	9
15	7	75	25			92	70	59	33	15	9
18	5	UNL	25			91	68	55	30	18	6
21	5	UNL	25			86	66	54	34	13	6
24	2	UNL	25			80	67	59	49	16	5

WEATHER CODES

*	TORNADO	ZL	FREEZING DRIZZLE	IPW	ICE PELLET SHOWERS	BN	BLOWING SAND
T	THUNDERSTORM	S	SNOW	A	HAIL	BS	BLOWING SNOW
Q	SQUALL	SW	SNOW SHOWERS	F	FOG	BY	BLOWING SPRAY
R	RAIN	SG	SNOW GRAINS	IF	ICE FOG	K	SMOKE
RW	RAIN SHOWERS	SP	SNOW PELLETS	GF	GROUND FOG	H	HAZE
ZR	FREEZING RAIN	IC	ICE CRYSTALS	BD	BLOWING DUST	D	DUST
L	DRIZZLE	IP	ICE PELLETS				

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

JUN 1984 23034
SAN ANGELO, TEXAS

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					JUN 19th						
03	7	UNL	25			77	69	65	67	17	8
06	2	UNL	25			73	68	66	79	16	4
09	1	UNL	25			82	71	65	57	21	8
12	3	UNL	25			87	71	62	43	19	5
15	6	75	25			92	70	59	33	14	7
18	5	UNL	25			91	69	57	32	19	9
21	1	UNL	25			84	66	55	37	17	4
24	0	UNL	25			81	69	62	53	16	14
					JUN 20th						
03	1	UNL	20			76	68	64	67	17	12
06	1	UNL	20			73	67	63	71	19	10
09	0	UNL	15			80	66	57	45	18	15
12	2	UNL	15			89	71	62	41	18	16
15	10	65	15			92	72	62	37	17	9
18	10	65	15			89	71	61	39	18	8
21	5	UNL	15			84	69	60	44	18	6
24	0	UNL	20			82	68	61	49	17	9
					JUN 21st						
03	1	UNL	25			77	70	66	69	18	10
06	0	UNL	25			73	70	68	84	17	7
09	7	32	15			80	71	66	63	19	14
12	4	UNL	20			90	72	64	42	18	16
15	4	UNL	20			95	73	62	34	17	13
18	2	UNL	25			93	71	60	33	17	11
21	2	UNL	25			86	69	60	42	16	6
24	0	UNL	25			81	68	60	49	18	5
					JUN 22nd						
03	0	UNL	25			78	67	61	56	17	8
06	0	UNL	15			73	68	65	76	18	7
09	0	UNL	15			82	73	68	63	18	12
12	0	UNL	20			91	72	63	39	18	13
15	0	UNL	25			98	70	55	24	18	13
18	0	UNL	25			97	69	52	22	18	9
21	0	UNL	25			87	66	54	32	17	7
24	0	UNL	25			81	65	55	41	18	7
					JUN 23rd						
03	0	UNL	25			75	66	61	62	18	6
06	0	UNL	25			74	68	64	71	18	7
09	0	UNL	25			83	73	68	61	17	12
12	0	UNL	25			92	72	63	38	18	7
15	1	UNL	25			99	72	58	26	14	6
18	1	UNL	25			98	69	53	22	12	5
21	0	UNL	25			90	66	50	25	12	7
24	0	UNL	25			86	69	59	40	15	8
					JUN 24th						
03	2	UNL	25			78	66	59	52	18	4
06	0	UNL	25			77	67	62	60	01	6
09	0	UNL	15			83	71	65	55	12	4
12	3	UNL	15			93	73	64	38	02	9
15	3	UNL	15			96	72	60	30	04	4
18	2	UNL	20			96	72	60	30	03	9
21	0	UNL	20			91	71	61	37	08	7
24	0	UNL	25			84	67	58	41	08	4
					JUN 25th						
03	2	UNL	25			81	69	63	54	10	3
06	0	UNL	25			76	68	63	64	15	4
09	0	UNL	15			87	72	64	46	25	7
12	3	UNL	15			97	74	63	33	33	7
15	3	UNL	20			98	73	60	28	08	8
18	3	UNL	25			99	72	58	26	06	4
21	3	UNL	25			91	72	62	38	17	12
24	0	UNL	25			85	70	62	46	14	4
					JUN 26th						
03	0	UNL	20			80	69	63	56	18	8
06	0	UNL	20			78	69	64	62	18	8
09	0	UNL	20			88	72	65	47	19	13
12	0	UNL	20			99	74	62	30	20	12
15	5	UNL	20			99	72	59	27	17	5
18	2	UNL	25			102	72	57	23	22	9
21	1	UNL	25			93	70	58	31	18	8
24	6	90	20			85	71	64	50	06	7
					JUN 27th						
03	2	UNL	20			79	70	65	62	06	3
06	7	110	20			75	70	68	79	06	7
09	3	UNL	15			81	73	69	67	12	7
12	9	150	20			92	74	65	41	22	9
15	10	120	20			96	73	63	34	06	5
18	10	120	20		T	79	71	67	67	14	6
21	10	250	25			73	72	71	94	36	7
24	10	90	7		TRW	73	71	70	90	31	3
					JUN 28th						
03	10	90	10		R	70	69	69	97	12	6
06	10	250	10			70	69	69	97	06	5
09	10	80	20			73	70	69	87	12	4
12	10	8	4		TRW	69	68	68	97	18	7
15	6	250	20			77	73	71	82	15	8
18	8	250	20			76	72	70	82	15	4
21	7	UNL	25			73	71	70	90	19	4
24	6	UNL	10			70	69	69	97	20	3
					JUN 29th						
03	0	UNL	10			67	66	66	97	00	0
06	0	UNL	10			67	66	66	97	00	0
09	0	UNL	15			77	72	70	79	21	5
12	0	UNL	20			88	74	67	50	32	7
15	1	UNL	25			93	72	61	35	19	5
18	2	UNL	25			94	69	56	28	19	7
21	3	UNL	25			83	70	63	51	18	6
24	0	UNL	25			76	71	68	76	29	4
					JUN 30th						
03	0	UNL	20			76	71	68	76	05	5
06	0	UNL	20			72	68	66	82	05	4
09	0	UNL	20			77	70	67	71	05	9
12	4	UNL	20			88	71	62	42	04	11
15	1	UNL	30			91	70	58	33	04	9
18	0	UNL	30			93	70	58	31	07	9
21	0	UNL	25			84	68	59	43	08	6
24	0	UNL	25			79	66	59	51	10	5

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES: TEMPERATURE AIR TEMP °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND SPEED (MPH)	RESULTANT WIND DIRECTION	RESULTANT WIND SPEED (MPH)
03	4	27.940	75	68	64	70	9.5	16	8.8
06	5	27.970	72	67	65	78	8.1	17	6.4
09	5	28.010	78	70	65	66	12.8	18	11.4
12	5	27.980	86	71	64	49	12.8	19	10.0
15	5	27.920	91	71	61	38	11.3	17	9.0
18	5	27.880	90	70	60	37	11.0	17	9.2
21	5	27.910	84	69	60	47	9.7	16	8.1
24	4	27.950	79	68	63	60	9.0	16	7.7

JUL 1984
SAN ANGELO, TEXAS
NAT'L WEA SER OFC
P.O.60246

ISSN 0198-5175

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

MATHIS FIELD

LATITUDE 31°22' LONGITUDE 100°30' ELEVATION (GROUND) 1903 FEET TIME ZONE CENTRAL 23034

JUL 1984
SAN ANGELO, TEXAS

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F HEATING (SEASON BEGINS WITH JUL) 7A	COOLING (SEASON BEGINS WITH JAN) 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0600 INCHES 9	PRECIPITATION WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 1908 FEET ABOVE M.S.L. 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	FASTEST MILE SPEED 16	FASTEST MILE DIRECTION 17	SUNSHINE MINUTES 18	PERCENT OF TOTAL POSSIBLE 19	SKY COVER (TENTHS) SUNRISE TO SUNSET 20	MIDNIGHT TO MIDNIGHT 21	DATE 22
01	94	70	82	-2	61	0	17		0	0.00	0.0	27.960	07	5.3	6.3	13	04			4	4	01
02	93	70	82	-2	65	0	17	3	0	0.39	0.0	28.010	09	1.1	6.0	17	18			9	9	02
03	95	73	84	0	63	0	19		0	0.00	0.0	27.980	18	10.9	11.0	18	18			8	7	03
04	95	72	84	0	62	0	19		0	0.00	0.0	27.930	16	7.6	8.1	15	17			8	5	04
05	95	75	85	1	61	0	20		0	0.00	0.0	27.930	17	8.8	9.0	14	18			5	5	05
06	97	70	84	0	61	0	19		0	0.00	0.0	27.950	16	7.2	7.8	14	13			1	1	06
07	97	70	84	0	59	0	19		0	0.00	0.0	27.985	17	6.2	7.2	12	12			1	1	07
08	95	73	84	0	60	0	19		0	0.00	0.0	28.000	17	8.0	8.8	13	14			2	2	08
09	95	74	85	1	62	0	20		0	0.00	0.0	27.980	17	9.8	10.4	15	18			1	1	09
10	97	75	86	2	63	0	21		0	0.00	0.0	27.970	17	11.0	11.1	17	18			0	0	10
11	96	75	86	2	63	0	21		0	0.00	0.0	27.985	17	7.8	8.0	12	17			8	3	11
12	95	75	85	1	64	0	20	3	0	T	0.0	27.980	17	2.2	6.9	14	07			5	6	12
13	94	69	82	-2	60	0	17		0	0.00	0.0	28.010	18	8.4	8.7	14	17			3	3	13
14	96	73	85	1	58	0	20		0	0.00	0.0	28.060	18	9.0	9.2	14	20			0	0	14
15	96	73	85	1	61	0	20		0	0.00	0.0	28.080	17	8.2	8.5	13	16			1	0	15
16	97	75	86*	2	59	0	21		0	0.00	0.0	28.000	19	8.0	8.3	13	20			1	1	16
17	99*	67	83	-1	56	0	18		0	0.00	0.0	27.940	10	1.7	7.7	15	07			2	2	17
18	93	70	82	-2	65	0	17	3	0	T	0.0	28.040	06	6.1	7.1	29	35			10	8	18
19	95	68	82	-2	63	0	17		0	0.00	0.0	28.030	15	4.6	6.3	15	16			5	4	19
20	95	67	81	-3	64	0	16		0	T	0.0	27.980	14	5.6	6.9	16	12			2	1	20
21	95	71	83	-1	60	0	18		0	0.00	0.0	27.990	15	7.0	8.7	14	15			2	1	21
22	93	71	82	-2	62	0	17		0	0.00	0.0	28.020	12	5.5	6.3	12	09			2	1	22
23	96	70	83	-2	59	0	18		0	0.00	0.0	28.035	11	3.3	5.7	9	07			2	1	23
24	78	64	71*	-14	61	0	6	3	0	0.16	0.0	28.070	11	3.7	7.0	23	09			10	8	24
25	84	62	73	-12	64	0	8	1	0	0.04	0.0	28.120	11	3.6	5.0	10	05			9	7	25
26	90	64	77	-8	65	0	12	3	0	0.00	0.0	28.100	17	3.1	4.5	10	12			3	2	26
27	98	66	82	-3	65	0	17	3	0	0.01	0.0	28.055	20	1.8	6.9	29	06			3	3	27
28	92	64	78	-7	62	0	13		0	0.00	0.0	28.080	09	4.5	6.0	15	06			2	2	28
29	90	64	77	-8	64	0	12		0	0.00	0.0	28.110	09	3.9	5.6	18	08			7	4	29
30	86	59	73	-12	55	0	8		0	0.00	0.0	28.070	09	4.3	5.4	16	08			5	4	30
31	92	59*	76	-9	54	0	11		0	0.00	0.0	27.990	12	2.6	5.2	9	15			3	2	31
	SUM	SUM				TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:						TOTAL	%	SUM	SUM	
	2903	2148				0	517			0.60	0.0	28.010	15	4.8	7.4	29	06		FOR POSSIBLE	124	98	
	AVG.	AVG.	AVG	DEP.	AVG.	DEP.	DEP.	PRECIPITATION		DEP.						DATE:	24			AVG.	AVG	
	93.6	69.3	81.5	-2.8	61.2	0	-81	≥ .01 INCH	4	-0.62										4.0	3.2	

NUMBER OF DAYS				SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE
MAXIMUM TEMP.		MINIMUM TEMP.		TOTAL	TOTAL	≥ 1.0 INCH	0	PRECIPITATION	SNOW, ICE PELLETS		
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	THUNDERSTORMS	6	0.39	02	0.0	0
28	0	0	0	0	-25	HEAVY FOG	0				
						CLEAR 18	PARTLY CLOUDY 6	CLOUDY 7			

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND NOTED IN SUBSEQUENT PUBLICATIONS.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D. Wadell
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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OBSERVATIONS AT 3-HOUR INTERVALS

JUL 1984 SAN ANGELO, TEXAS 23034

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					JUL 1st						
03	0	UNL	20			75	68	64	69	09	3
06	2	UNL	20			71	67	65	81	05	4
09	8	UNL	20			81	73	69	67	07	3
12	1	UNL	30			90	70	59	35	06	5
15	9	90	25			93	71	60	33	06	7
18	2	UNL	25			91	70	59	34	07	7
21	8	UNL	25			83	65	53	36	09	5
24	8	UNL	20			77	63	54	45	08	5
					JUL 2nd						
03	10	110	20			76	65	58	54	04	3
06	10	250	20			75	66	61	62	36	5
09	6	UNL	12			80	69	63	56	04	7
12	10	250	20			86	71	63	46	10	5
15	9	65	20			91	72	63	39	10	4
18	10	140	15		TRW	73	71	70	90	35	6
21	10	140	20			74	71	70	87	12	4
24	10	65	25			74	72	71	90	27	4
					JUL 3rd						
03	7	110	20			75	70	68	79	19	7
06	9	110	25			74	69	66	76	17	8
09	10	UNL	25			80	71	67	65	18	12
12	8	UNL	25			87	71	62	43	17	11
15	6	UNL	25			94	71	59	31	17	12
18	7	UNL	25			92	69	56	30	17	13
21	5	UNL	30			85	68	59	42	17	7
24	0	UNL	30			75	67	62	64	18	4
					JUL 4th						
03	0	UNL	30			75	67	62	64	16	6
06	7	UNL	25			73	68	65	76	17	6
09	10	UNL	25			76	68	63	64	18	10
12	10	UNL	25			87	71	63	45	16	12
15	6	250	25			93	72	61	35	14	8
18	4	UNL	25			93	71	59	32	17	9
21	4	UNL	25			86	70	61	43	14	4
24	2	UNL	25			80	68	62	54	16	5
					JUL 5th						
03	10	250	20			80	71	67	65	17	11
06	7	UNL	20			75	69	66	74	19	8
09	4	UNL	20			80	71	66	63	16	6
12	6	UNL	25			87	72	65	48	17	10
15	8	UNL	25			94	71	60	32	17	9
18	6	UNL	25			93	69	55	28	16	7
21	0	UNL	25			85	66	55	36	15	4
24	3	UNL	25			78	66	58	50	18	6
					JUL 6th						
03	0	UNL	25			74	65	60	62	18	5
06	1	UNL	25			71	67	64	79	18	7
09	0	UNL	25			83	73	68	61	19	10
12	1	UNL	25			91	73	64	41	13	4
15	4	UNL	25			95	71	58	29	17	11
18	2	UNL	25			95	70	56	27	17	9
21	0	UNL	30			89	68	57	34	14	6
24	0	UNL	30			81	67	58	46	16	5
					JUL 7th						
03	0	UNL	30			73	64	59	62	19	6
06	0	UNL	25			70	64	61	73	21	4
09	0	UNL	20			83	72	66	57	20	8
12	1	UNL	25			90	72	64	42	15	8
15	3	UNL	25			95	70	56	27	20	7
18	1	UNL	25			94	69	54	26	13	9
21	0	UNL	25			87	67	55	34	14	4
24	0	UNL	25			80	65	56	44	17	5
					JUL 8th						
03	0	UNL	25			75	65	58	56	18	7
06	0	UNL	25			74	67	63	69	18	6
09	0	UNL	20			83	72	66	57	17	9
12	1	UNL	25			90	72	64	42	18	9
15	4	UNL	25			95	72	60	31	19	10
18	6	UNL	25			94	70	57	29	14	11
21	2	UNL	25			87	66	54	32	13	7
24	0	UNL	25			82	66	56	41	15	7
					JUL 9th						
03	0	UNL	25			78	68	63	60	16	7
06	0	UNL	25			75	69	65	71	18	8
09	0	UNL	20			81	71	66	60	21	12
12	1	UNL	20			88	72	64	45	18	10
15	3	UNL	20			94	71	60	32	15	9
18	1	UNL	20			92	70	58	32	19	10
21	0	UNL	25			87	68	58	38	14	7
24	0	UNL	25			82	67	59	46	17	6
					JUL 10th						
03	0	UNL	25			79	69	64	60	17	6
06	0	UNL	25			75	69	66	74	17	8
09	0	UNL	25			82	71	66	59	18	15
12	0	UNL	25			89	72	64	44	17	13
15	1	UNL	25			96	73	62	33	17	12
18	1	UNL	25			93	71	60	33	17	11
21	0	UNL	25			88	70	60	39	15	7
24	0	UNL	25			82	69	62	51	17	4
					JUL 11th						
03	0	UNL	25			80	71	66	63	17	10
06	2	UNL	25			75	69	66	74	17	7
09	0	UNL	15			81	72	67	63	18	7
12	2	UNL	20			89	73	65	45	18	8
15	6	60	25			92	71	61	36	14	4
18	3	UNL	25			94	71	59	31	18	6
21	6	UNL	25			89	70	59	36	17	8
24	4	UNL	25			81	69	62	53	16	9
					JUL 12th						
03	10	300	25			80	70	65	60	21	5
06	9	UNL	25			77	70	66	69	16	3
09	0	UNL	20			81	72	67	63	19	6
12	5	UNL	20			90	74	66	45	34	5
15	7	250	25			94	74	65	39	05	8
18	6	250	25			89	70	60	38	07	9
21	8	120	25			80	69	63	56	20	4
24	2	UNL	25			77	70	66	69	14	5
					JUL 13th						
03	4	UNL	25			74	69	66	76	18	6
06	1	UNL	15			69	66	65	87	20	6
09	1	UNL	20			80	68	62	54	18	8
12	7	UNL	15			87	69	60	40	17	8
15	5	UNL	15			92	70	58	32	17	11
18	2	UNL	15			93	70	57	30	19	9
21	2	UNL	20			86	67	56	36	18	7
24	0	UNL	20			77	65	57	50	17	4
					JUL 14th						
03	0	UNL	20			74	64	58	58	17	7
06	0	UNL	20			73	65	61	66	17	6
09	0	UNL	20			81	70	65	58	16	6
12	0	UNL	15			90	68	56	32	17	9
15	0	UNL	15			94	69	54	26	18	11
18	0	UNL	25			95	70	56	27	18	10
21	0	UNL	25			89	69	57	34	17	6
24	0	UNL	25			79	66	58	49	18	6
					JUL 15th						
03	0	UNL	25			78	68	63	60	17	11
06	0	UNL	25			73	67	63	71	18	6
09	0	UNL	25			80	70	65	60	17	8
12	0	UNL	30			90	71	61	38	15	9
15	2	UNL	30			95	72	60	31	15	5
18	1	UNL	30			94	70	58	30	16	9
21	0	UNL	25			87	69	60	40	17	6
24	0	UNL	30			78	66	59	52	19	4
					JUL 16th						
03	0	UNL	30			77	67	62	60	19	5
06	0	UNL	30			75	68	64	69	18	9
09	0	UNL	30			83	72	66	57	20	10
12	0	UNL	30			91	71	61	37	19	8
15	3	UNL	30			96	72	60	30	20	5
18	1	UNL	30			95	69	55	26	20	4
21	2	UNL	25			87	65	50	28	18	6
24	1	UNL	25			79	62	50	36	19	7
					JUL 17th						
03	2	UNL	25			77	62	52	42	18	4
06	2	UNL	25			70	59	51	51	20	6
09	0	UNL	15			84	66	56	38	21	7
12	0	UNL	20			92	67	51	25	06	6
15	2	UNL	20			96	68	52	23	06	4
18	2	UNL	20			94	71	60	32	06	9
21	8	UNL	20			86	69	60	42	08	9
24	4	UNL	25			80	68	61	52	04	4
					JUL 18th						
03	7	110	25			77	66	60	56	06	5
06	9	110	25			77	69	64	64	06	6
09	10	130	20			78	71	68	72	06	6
12	10	130	20			81	73	69	67	07	8
15	9	150	20			90	74	66	45	03	7
18	10	250	25			79	70	65	62	07	8
21	5	UNL	30			78	69	64	62	13	3
24	3	UNL	30			71	66	63	76	00	0

WEATHER CODES

*	TORNADO	ZL	FREEZING DRIZZLE	IPW	ICE PELLET SHOWERS	BN	BLOWING SAND
T	THUNDERSTORM	S	SNOW	A	HAIL	BS	BLOWING SNOW
Q	SQUALL	SW	SNOW SHOWERS	F	FOG	BY	BLOWING SPRAY
R	RAIN	SG	SNOW GRAINS	IF	ICE FOG	K	SMOKE
RW	RAIN SHOWERS	SP	SNOW PELLETS	GF	GROUND FOG	H	HAZE
ZR	FREEZING RAIN	IC	ICE CRYSTALS	BD	BLOWING DUST	D	DUST
L	DRIZZLE	IP	ICE PELLETS				

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.151).

OBSERVATIONS AT 3-HOUR INTERVALS

JUL 1984 SAN ANGELO, TEXAS 23034

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
					JUL 19th						
03	7	150	25			69	66	64	84	00	0
06	2	UNL	25			69	65	62	79	08	4
09	0	UNL	20			80	70	64	58	13	4
12	1	UNL	25			90	72	64	42	17	9
15	8	70	25			92	71	61	36	20	4
18	9	250	25			83	68	60	46	17	10
21	1	UNL	25			79	69	63	58	17	9
24	0	UNL	25			73	67	64	74	18	8
					JUL 20th						
03	0	UNL	25			70	67	65	84	02	4
06	0	UNL	25			70	66	63	79	05	6
09	1	UNL	20			80	72	68	67	18	8
12	2	UNL	25			90	72	64	42	17	9
15	7	70	25			94	73	63	36	12	14
18	3	UNL	25			92	72	62	37	12	9
21	0	UNL	30			85	70	63	48	15	6
24	0	UNL	30			77	67	62	60	14	4
					JUL 21st						
03	0	UNL	30			77	67	61	58	18	9
06	0	UNL	30			71	66	63	76	22	3
09	0	UNL	20			81	71	66	60	18	10
12	2	UNL	25			91	71	61	37	20	8
15	4	UNL	25			95	70	57	28	10	8
18	5	UNL	25			92	68	54	28	15	12
21	0	UNL	25			85	66	55	36	13	6
24	0	UNL	25			82	69	62	51	14	6
					JUL 22nd						
03	0	UNL	25			78	69	64	62	15	5
06	0	UNL	25			72	67	64	76	00	0
09	0	UNL	25			81	71	66	60	15	4
12	3	UNL	25			88	72	64	45	13	8
15	7	150	25			91	71	61	37	07	5
18	2	UNL	20			92	70	59	33	09	9
21	0	UNL	20			86	67	56	36	15	6
24	0	UNL	20			73	64	56	47	14	3
					JUL 23rd						
03	0	UNL	25			77	68	63	62	15	4
06	3	UNL	25			70	66	63	79	00	0
09	0	UNL	20			82	72	67	61	17	8
12	3	UNL	25			91	71	60	35	12	4
15	3	UNL	25			94	70	57	29	06	8
18	1	UNL	20			92	67	52	26	05	6
21	0	UNL	20			84	64	50	31	11	4
24	2	UNL	20			70	61	54	57	04	4
					JUL 24th						
03	3	UNL	15			71	61	55	57	19	4
06	8	UNL	15			70	62	56	61	19	5
09	10	50	5		RW	71	67	65	81	09	20
12	10	100	8		TRW	64	63	63	97	21	5
15	9	250	10			74	68	64	71	29	4
18	10	250	12			75	67	62	64	08	8
21	10	250	12			70	66	64	81	06	5
24	5	UNL	20			67	65	64	90	14	5
					JUL 25th						
03	2	UNL	25			64	63	62	93	00	0
06	5	UNL	10			64	63	63	97	04	5
09	10	13	6		F	68	67	66	93	16	5
12	10	80	10			75	70	67	76	09	3
15	10	80	15			81	71	66	60	10	8
18	9	250	20			83	68	59	44	12	7
21	7	UNL	20			76	67	61	60	16	5
24	1	UNL	20			69	66	65	87	20	4
					JUL 26th						
03	2	UNL	20			67	66	65	93	24	4
06	2	UNL	9			66	65	64	93	00	0
09	0	UNL	15			76	71	68	76	20	3
12	2	UNL	20			86	72	66	51	18	3
15	5	UNL	20			89	72	63	42	14	7
18	6	250	20			86	72	65	50	16	8
21	3	UNL	25			79	69	64	60	18	5
24	0	UNL	25			72	68	65	79	22	4
					JUL 27th						
03	0	UNL	25			69	67	66	90	00	0
06	0	UNL	20			66	64	63	90	25	4
09	0	UNL	20			81	72	68	65	24	8
12	1	UNL	20			92	74	65	41	33	3
15	3	UNL	30			94	72	61	33	05	8
18	10	250	15			82	71	65	57	13	15
21	10	250	25			75	70	68	79	15	5
24	3	UNL	25			71	67	65	81	20	4
					JUL 28th						
03	0	UNL	25			69	66	64	84	10	3
06	0	UNL	25			65	64	63	93	00	0
09	1	UNL	15			77	69	65	67	00	0
12	0	UNL	20			86	71	64	48	06	9
15	4	UNL	20			91	71	61	37	06	10
18	1	UNL	20			90	69	58	34	08	10
21	3	UNL	20			83	68	60	46	13	6
24	0	UNL	20			77	67	61	58	14	5
					JUL 29th						
03	2	UNL	20			71	65	62	73	15	3
06	1	UNL	20			66	64	62	87	00	0
09	2	UNL	15			77	70	66	69	00	0
12	10	250	15			82	71	66	59	02	6
15	10	UNL	15			90	72	63	41	01	9
18	0	UNL	12			82	71	66	59	10	9
21	3	UNL	15			79	70	65	62	09	5
24	0	UNL	20			74	64	57	56	14	5
					JUL 30th						
03	0	UNL	20			62	59	57	84	00	0
06	0	UNL	15			59	56	54	84	00	0
09	0	UNL	8			73	64	58	60	19	4
12	2	UNL	8			82	65	55	40	06	8
15	10	UNL	12			86	67	56	36	08	14
18	10	UNL	12			85	65	53	33	08	7
21	8	UNL	15			79	62	51	38	14	4
24	0	UNL	20			71	60	52	51	15	5
					JUL 31st						
03	0	UNL	15			65	58	52	63	18	7
06	0	UNL	15			61	56	52	72	00	0
09	0	UNL	10			75	62	54	48	13	6
12	1	UNL	12			84	66	56	38	10	6
15	10	150	15			90	68	55	31	05	3
18	1	UNL	15			89	68	55	32	00	0
21	0	UNL	15			81	63	51	35	06	6
24	0	UNL	15			77	63	53	43	15	5

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES: SKY COVER (TENTHS)	AVERAGES: STATION PRESSURE (INCHES)	AVERAGES: TEMPERATURE AIR TEMP °F	AVERAGES: TEMPERATURE WET BULB °F	AVERAGES: TEMPERATURE DEW POINT °F	AVERAGES: REL HUMIDITY %	AVERAGES: WIND SPEED (MPH)	RESULTANT WIND: DIRECTION	RESULTANT WIND: SPEED (MPH)
03	2	28.020	74	66	62	68	5.8	17	4.7
06	3	28.035	71	65	62	76	5.2	17	3.2
09	2	28.070	79	70	65	63	8.5	17	6.4
12	4	28.050	87	71	62	46	8.5	15	5.4
15	6	27.990	92	71	60	35	9.1	13	5.1
18	4	27.960	89	70	59	38	9.9	13	6.9
21	3	27.980	83	68	59	46	6.5	14	5.4
24	2	28.010	76	66	60	58	5.6	16	4.5

AUG 1984
SAN ANGELO, TEXAS
NAT'L WEA SER OFC
P.O.60246

ISSN 0198-5175

LOCAL CLIMATOLOGICAL DATA
Monthly Summary

MATHIS FIELD

LATITUDE 31°22' LONGITUDE 100°30' ELEVATION (GROUND) 1903 FEET TIME ZONE CENTRAL 23034

AUG 1984
SAN ANGELO, TEXAS

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F HEATING (SEASON BEGINS WITH JUL) 7A	COOLING (SEASON BEGINS WITH JAN) 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0600 INCHES 9	PRECIPITATION WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 1908 FEET ABOVE M.S.L 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	FASTEST MILE SPEED 16	FASTEST MILE DIRECTION 17	SUNSHINE MINUTES 18	PERCENT OF TOTAL POSSIBLE 19	SKY COVER (TENTHS) SUNRISE TO SUNSET 20	MIDNIGHT TO MIDNIGHT 21	DATE 22
01	91	70	81	-4	60	0	16		0	0.00	0.0	27.970	17	5.7	7.3	13	19			9	7	01
02	92	71	82	-3	60	0	17		0	0.00	0.0	28.040	12	7.1	9.0	14	11			9	9	02
03	92	72	82	-3	66	0	17	3	0	0.25	0.0	28.040	16	3.6	7.1	14	28			9	9	03
04	93	69	81	-4	66	0	16		0	0.00	0.0	28.010	13	4.7	5.9	13	10			6	4	04
05	95	71	83	-2	64	0	18		0	0.00	0.0	28.010	17	7.5	7.9	12	15			2	1	05
06	97	73	85	1	63	0	20		0	0.00	0.0	28.000	17	10.1	10.4	16	15			2	1	06
07	96	73	85	1	62	0	20		0	0.00	0.0	27.960	17	10.7	10.9	18	17			0	0	07
08	92	74	83	-1	63	0	18		0	0.00	0.0	27.950	16	9.1	9.4	18	15			4	4	08
09	92	74	83	-1	63	0	18		0	0.00	0.0	27.980	16	9.3	9.8	14	19			9	8	09
10	90	71	81	-3	64	0	16		0	T	0.0	28.030	14	4.1	6.7	14	18			9	8	10
11	87	72	80	-4	66	0	15		0	0.00	0.0	28.040	05	7.8	8.1	17	04			10	10	11
12	85	72	79	-5	65	0	14		0	T	0.0	28.060	07	8.0	8.3	15	09			7	6	12
13	92	69	81	-3	63	0	16		0	0.00	0.0	28.040	08	3.5	5.4	15	06			7	6	13
14	93	64	79	-5	60	0	14		0	0.00	0.0	28.040	10	3.3	5.8	12	06			2	2	14
15	92	71	82	-2	62	0	17		0	T	0.0	28.090	16	4.9	9.1	32	07			7	6	15
16	93	64*	79*	-5	61	0	14		0	0.01	0.0	28.120	16	5.6	7.3	14	13			5	5	16
17	95	66	81	-2	56	0	16		0	0.00	0.0	28.060	19	7.6	8.0	13	21			1	3	17
18	98	68	83	0	58	0	18		0	0.00	0.0	27.970	19	7.2	7.7	13	17			0	0	18
19	103	70	87	4	57	0	22		0	0.00	0.0	27.900	19	5.3	6.2	10	21			2	1	19
20	104*	72	88	5	58	0	23		0	0.00	0.0	27.870	18	6.9	8.8	15	14			7	5	20
21	101	76	89*	6	62	0	24		0	0.00	0.0	27.955	18	6.3	7.0	12	19			5	4	21
22	97	75	86	3	62	0	21		0	0.00	0.0	28.080	15	5.2	8.0	13	18			2	1	22
23	98	66	82	-1	60	0	17		0	0.00	0.0	28.040	15	0.9	4.7	8	06			8	5	23
24	100	68	84	2	61	0	19		0	0.00	0.0	27.980	15	3.8	6.0	13	10			4	3	24
25	97	71	84	2	64	0	19	3	0	0.00	0.0	28.030	16	4.9	6.1	15	18			3	2	25
26	95	71	83	1	64	0	18		0	0.00	0.0	28.070	16	5.7	6.3	10	16			4	4	26
27	97	67	82	0	61	0	17		0	0.00	0.0	28.025	18	8.3	8.4	14	19			0	0	27
28	99	75	87	6	62	0	22		0	0.00	0.0	27.990	18	9.3	9.5	14	19			4	2	28
29	99	76	88	7	61	0	23		0	0.00	0.0	27.990	17	7.4	8.1	14	18			2	1	29
30	94	70	82	1	61	0	17		0	T	0.0	28.040	08	3.9	6.5	23	05			8	5	30
31	93	69	81	0	61	0	16		0	0.00	0.0	28.035	12	6.4	7.7	15	10			3	3	31
	SUM 2942	SUM 2190				TOTAL 0	TOTAL 558	NUMBER OF DAYS		TOTAL 0.26	TOTAL 0.0	FOR THE MONTH: 28.010	16	5.1	7.7	32	07	TOTAL	% POSSIBLE	SUM 150	SUM 125	
	AVG. 94.9	AVG. 70.6	AVG. 82.8	DEP. -0.5	AVG. 61.7	DEP. 0	DEP. -9	PRECIPITATION ≥ .01 INCH 2		DEP. -1.59						DATE: 15				AVG. 4.8	AVG. 4.0	

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL
MAXIMUM TEMP.		MINIMUM TEMP.		0	2073
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.
29	0	0	0	0	-34

SNOW, ICE PELLETS ≥ 1.0 INCH 0
THUNDERSTORMS 2
HEAVY FOG 0
CLEAR 12 PARTLY CLOUDY 11 CLOUDY 8

GREATEST IN 24 HOURS AND DATES		
PRECIPITATION		SNOW, ICE PELLETS
0.25	03	0.0

GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE
0

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND NOTED IN SUBSEQUENT PUBLICATIONS.

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Kenneth D. Wadell
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION — NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE — NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

OBSERVATIONS AT 3-HOUR INTERVALS

AUG 1984 SAN ANGELO, TEXAS 23034

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
AUG 1st											
03	0	UNL	12			73	62	54	52	15	6
06	8	75	12			71	62	56	59	20	7
09	10	UNL	7			77	68	63	62	18	9
12	10	250	7			86	71	63	46	18	10
15	6	120	10			90	71	61	38	29	4
18	10	120	10			81	69	63	54	10	9
21	8	120	12			80	68	61	52	15	5
24	7	75	12			80	67	59	49	16	5
AUG 2nd											
03	8	250	12			77	65	57	50	17	10
06	9	75	12			73	63	57	57	06	5
09	10	250	7			77	69	64	64	14	11
12	10	250	10			83	69	61	48	13	11
15	5	UNL	10			92	70	59	33	16	8
18	10	100	10			90	69	58	34	10	3
21	5	UNL	20			83	69	62	49	08	7
24	10	110	20			82	67	59	46	12	8
AUG 3rd											
03	6	UNL	15			78	66	59	52	12	4
06	10	250	15			75	67	62	64	18	8
09	8	100	15			80	71	66	63	17	5
12	7	250	15			90	72	63	41	14	8
15	10	70	10		RW	88	71	63	43	06	7
18	10	90	6		R	72	71	70	94	33	3
21	10	120	10			73	72	71	94	23	5
24	10	90	8			73	72	72	97	07	4
AUG 4th											
03	2	UNL	12			71	70	69	93	00	0
06	6	110	10			70	69	68	93	00	0
09	6	UNL	12			78	73	70	77	18	7
12	5	UNL	15			87	73	67	52	14	6
15	5	UNL	15			91	72	62	38	07	6
18	7	250	15			92	70	59	33	14	10
21	0	UNL	15			82	69	62	51	12	6
24	0	UNL	25			78	71	67	69	14	5
AUG 5th											
03	0	UNL	25			73	69	67	82	18	5
06	0	UNL	20			71	68	67	87	19	5
09	0	UNL	20			79	70	66	65	18	10
12	1	UNL	20			88	72	65	47	18	9
15	3	UNL	20			94	73	63	36	16	6
18	3	UNL	20			94	71	60	32	16	9
21	2	UNL	15			86	70	62	45	15	5
24	2	UNL	20			78	67	61	56	18	7
AUG 6th											
03	0	UNL	20			77	68	63	62	18	8
06	1	UNL	20			74	69	66	76	18	8
09	1	UNL	30			81	72	67	63	18	9
12	0	UNL	30			92	73	64	40	18	13
15	2	UNL	30			97	73	61	30	17	12
18	1	UNL	30			93	71	60	33	17	11
21	0	UNL	25			85	69	61	45	17	6
24	0	UNL	25			78	67	61	56	15	6
AUG 7th											
03	0	UNL	20			77	69	65	67	16	8
06	0	UNL	20			74	69	66	76	17	10
09	0	UNL	20			80	71	66	63	19	12
12	0	UNL	30			91	73	65	42	17	16
15	0	UNL	30			93	71	60	33	17	9
18	0	UNL	30			94	71	59	31	17	12
21	0	UNL	30			85	68	59	42	17	8
24	0	UNL	30			81	68	60	49	15	4
AUG 8th											
03	3	UNL	15			79	69	63	58	15	8
06	2	UNL	15			74	69	66	76	19	5
09	3	UNL	12			79	72	68	69	17	6
12	4	UNL	15			88	74	67	50	15	8
15	3	UNL	20			92	71	60	34	15	16
18	6	250	20			90	70	59	35	16	8
21	10	250	20			81	67	59	47	18	4
24	8	UNL	20			78	69	65	64	16	7
AUG 9th											
03	9	UNL	20			77	70	66	69	17	11
06	10	250	20			74	69	67	79	19	9
09	8	UNL	20			79	70	65	62	16	9
12	10	UNL	25			86	70	61	43	18	10
15	10	250	25			91	71	61	37	17	8
18	10	250	25			91	70	59	34	12	11
21	6	UNL	25			83	68	59	44	13	8
24	4	UNL	25			80	68	62	54	16	8
AUG 10th											
03	10	UNL	25			75	67	63	66	17	5
06	4	UNL	25			72	66	63	73	06	3
09	10	28	20			78	71	67	69	18	12
12	7	120	20			87	72	65	48	18	8
15	10	50	10		RW	83	73	68	61	09	9
18	10	120	20			89	69	58	35	16	8
21	8	100	20			85	69	60	43	11	5
24	10	75	20			78	70	66	67	04	8
AUG 11th											
03	10	75	20			79	70	65	62	02	4
06	9	250	20			72	68	66	82	05	4
09	10	250	20			77	70	67	71	14	3
12	10	100	20			85	73	67	55	04	7
15	10	100	20			86	71	64	48	05	10
18	10	120	20			83	72	66	57	05	12
21	10	90	20			78	69	65	64	06	12
24	10	65	20			76	68	64	67	06	7
AUG 12th											
03	10	110	20			75	69	66	74	09	5
06	8	110	20			73	68	66	79	04	5
09	8	110	15			75	70	67	76	07	13
12	10	110	20			80	71	66	63	09	13
15	7	250	20			80	70	65	60	06	8
18	4	UNL	30			84	69	60	44	07	10
21	0	UNL	25			76	68	64	67	07	6
24	1	UNL	25			72	67	64	76	10	3
AUG 13th											
03	9	110	25			71	67	64	79	00	0
06	6	65	25			69	66	65	87	04	3
09	7	UNL	25			78	70	66	67	21	3
12	8	UNL	25			87	73	66	50	01	4
15	7	UNL	25			90	71	62	39	05	6
18	7	UNL	25			88	68	56	34	06	10
21	6	UNL	25			79	69	63	58	17	7
24	0	UNL	25			70	64	61	73	19	4
AUG 14th											
03	0	UNL	25			66	63	61	84	20	3
06	0	UNL	25			65	63	61	87	21	3
09	0	UNL	25			77	70	66	69	00	0
12	2	UNL	25			88	71	62	42	14	6
15	2	UNL	25			92	69	57	31	06	8
18	7	UNL	25			90	69	57	33	06	9
21	0	UNL	25			83	66	55	38	10	7
24	3	UNL	25			77	64	56	48	16	4
AUG 15th											
03	0	UNL	25			77	69	64	64	18	10
06	8	UNL	25			72	68	65	79	18	7
09	4	UNL	20			77	69	65	67	16	7
12	9	120	20			75	66	60	60	16	14
15	8	250	25			91	69	56	31	22	11
18	6	250	25			81	67	59	47	32	4
21	10	100	25			74	67	63	69	11	3
24	5	UNL	25			71	67	65	81	15	3
AUG 16th											
03	4	UNL	25			69	65	63	81	14	4
06	7	UNL	25			66	63	61	84	20	5
09	0	UNL	20			74	68	64	71	13	4
12	4	UNL	20			86	72	65	50	18	8
15	7	120	25			91	71	60	35	20	8
18	9	250	25			82	70	63	53	07	10
21	8	UNL	25			81	65	54	39	18	9
24	5	UNL	20			77	64	55	47	14	4
AUG 17th											
03	10	UNL	20			69	61	55	61	20	6
06	8	UNL	15			68	61	57	68	23	4
09	3	UNL	15			81	70	64	56	19	8
12	0	UNL	20			89	70	59	36	18	10
15	0	UNL	20			95	68	53	24	18	8
18	0	UNL	30			93	67	52	25	18	9
21	0	UNL	30			80	63	51	37	18	7
24	0	UNL	30			75	62	53	46	18	6
AUG 18th											
03	0	UNL	30			70	61	54	57	19	7
06	0	UNL	30			70	61	55	59	18	8
09	0	UNL	30			83	70	64	53	22	10
12	0	UNL	30			92	70	58	32	19	8
15	0	UNL	30			97	72	59	28	17	11
18	0	UNL	30			96	71	59	29	18	7
21	0	UNL	25			85	67	57	39	18	4
24	0	UNL	25			78	65	57	49	19	5

WEATHER CODES

*	TORNADO	ZL	FREEZING DRIZZLE	IPW	ICE PELLET SHOWERS	BN	BLOWING SAND
T	THUNDERSTORM	S	SNOW	A	HAIL	BS	BLOWING SNOW
Q	SQUALL	SW	SNOW SHOWERS	F	FOG	BY	BLOWING SPRAY
R	RAIN	SG	SNOW GRAINS	IF	ICE FOG	K	SMOKE
RW	RAIN SHOWERS	SP	SNOW PELLETS	GF	GROUND FOG	H	HAZE
ZR	FREEZING RAIN	IC	ICE CRYSTALS	BD	BLOWING DUST	D	DUST
L	DRIZZLE	IP	ICE PELLETS				

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

AUG 1984 SAN ANGELO, TEXAS 23034

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
AUG 19th											
03	1	UNL	25			73	64	59	62	18	6
06	3	UNL	25			71	64	59	66	18	7
09	1	UNL	25			84	69	61	46	30	5
12	2	UNL	25			97	71	58	27	19	8
15	2	UNL	25			101	71	55	22	15	6
18	0	UNL	30			101	71	54	21	13	3
21	0	UNL	30			91	68	55	30	12	5
24	0	UNL	25			80	65	55	42	22	5
AUG 20th											
03	0	UNL	25			75	62	54	48	23	3
06	1	UNL	25			74	64	57	56	20	6
09	7	UNL	20			90	71	61	38	20	10
12	8	UNL	20			100	72	57	24	05	5
15	8	UNL	20			103	71	55	20	21	8
18	5	UNL	20			97	70	56	25	13	12
21	1	UNL	25			87	69	59	39	18	9
24	8	UNL	25			83	69	62	49	18	7
AUG 21st											
03	8	UNL	20			80	68	61	52	17	6
06	5	UNL	25			77	69	64	64	19	6
09	9	UNL	20			84	72	67	57	21	7
12	3	UNL	20			95	74	65	37	19	6
15	3	UNL	20			99	72	59	27	15	5
18	4	UNL	20			93	72	61	35	15	8
21	0	UNL	25			89	70	59	36	17	6
24	2	UNL	25			82	67	59	46	18	4
AUG 22nd											
03	0	UNL	25			80	68	61	52	18	9
06	1	UNL	25			75	70	68	79	18	9
09	0	UNL	20			82	73	68	63	21	8
12	1	UNL	20			91	73	64	41	07	7
15	4	UNL	20			94	72	61	33	12	8
18	4	UNL	25			93	71	60	33	09	5
21	0	UNL	25			86	68	58	39	13	4
24	2	UNL	25			79	65	57	47	18	6
AUG 23rd											
03	0	UNL	25			73	63	57	57	21	6
06	3	UNL	20			68	62	58	71	25	4
09	8	UNL	25			80	70	64	58	25	7
12	9	UNL	25			91	73	64	41	11	4
15	8	UNL	25			95	72	60	31	00	0
18	8	UNL	25			93	71	59	32	06	6
21	2	UNL	25			85	70	63	48	05	6
24	0	UNL	25			79	66	59	51	19	6
AUG 24th											
03	0	UNL	25			73	65	60	64	23	4
06	6	UNL	25			70	63	59	68	19	6
09	3	UNL	20			82	69	62	51	28	4
12	2	UNL	25			92	71	61	36	21	3
15	5	UNL	25			96	72	60	30	07	3
18	7	250	25			95	71	59	30	07	6
21	3	UNL	25			87	70	61	42	13	9
24	0	UNL	25			82	69	62	51	19	6
AUG 25th											
03	1	UNL	25			76	67	61	60	06	5
06	0	UNL	25			73	66	62	69	18	3
09	0	UNL	25			83	72	66	57	20	5
12	1	UNL	30			94	74	65	39	20	5
15	6	60	30			94	73	63	36	10	8
18	6	250	25			85	72	66	53	15	7
21	0	UNL	25			82	71	66	59	17	7
24	1	UNL	20			79	70	65	62	13	5
AUG 26th											
03	7	UNL	15			77	70	66	69	17	3
06	4	UNL	15			73	69	67	82	19	5
09	7	50	12			78	71	67	69	16	9
12	5	UNL	15			89	73	66	47	19	4
15	6	250	15			92	72	63	38	09	5
18	5	UNL	15			92	71	60	34	17	8
21	0	UNL	20			84	68	59	43	14	6
24	0	UNL	20			76	67	62	62	16	4
AUG 27th											
03	0	UNL	15			72	63	58	62	17	5
06	1	UNL	15			68	62	58	71	19	5
09	1	UNL	20			82	73	68	63	19	11
12	1	UNL	20			91	73	64	41	18	10
15	0	UNL	20			97	73	61	30	19	7
18	0	UNL	20			95	71	58	29	18	8
21	0	UNL	20			85	69	60	43	18	6
24	0	UNL	25			80	67	60	51	17	10
AUG 28th											
03	0	UNL	25			77	66	60	56	18	7
06	0	UNL	20			76	69	65	69	18	9
09	5	UNL	15			84	72	67	57	20	10
12	6	UNL	20			94	72	62	35	15	11
15	3	UNL	25			98	73	61	30	16	9
18	1	UNL	25			98	73	60	28	18	7
21	0	UNL	25			87	69	60	40	16	8
24	0	UNL	25			82	68	61	49	18	7
AUG 29th											
03	0	UNL	25			77	66	59	54	17	8
06	0	UNL	25			76	68	63	64	18	7
09	1	UNL	15			84	73	68	59	18	12
12	0	UNL	15			95	73	62	34	19	7
15	1	UNL	20			99	73	60	28	14	7
18	5	UNL	20			97	72	59	28	13	5
21	1	UNL	20			88	70	60	39	14	4
24	0	UNL	20			81	68	60	49	17	5
AUG 30th											
03	0	UNL	20			76	65	59	56	18	3
06	4	UNL	10			74	66	61	64	22	3
09	10	60	12			77	68	63	62	07	10
12	7	UNL	25			82	68	61	49	18	6
15	9	250	25			93	72	61	35	03	9
18	6	120	25			87	69	59	39	07	10
21	0	UNL	25			80	67	60	51	09	6
24	0	UNL	25			77	67	61	58	10	3
AUG 31st											
03	4	UNL	25			74	68	64	71	15	3
06	3	UNL	20			71	66	63	76	00	0
09	0	UNL	12			78	69	64	62	13	4
12	3	UNL	15			88	71	62	42	15	9
15	5	UNL	20			93	69	55	28	13	10
18	3	UNL	20			90	69	57	33	10	13
21	3	UNL	20			84	69	61	46	10	7
24	0	UNL	20			78	68	62	58	15	6

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES: SKY COVER (TENTHS)	AVERAGES: STATION PRESSURE (INCHES)	AVERAGES: TEMPERATURE AIR TEMP °F	AVERAGES: TEMPERATURE WET BULB °F	AVERAGES: TEMPERATURE DEW POINT °F	AVERAGES: REL HUMIDITY %	AVERAGES: WIND SPEED (MPH)	RESULTANT WIND: DIRECTION	RESULTANT WIND: SPEED (MPH)
03	3	28.010	75	66	61	64	6.4	17	5.3
06	4	28.030	72	66	63	73	6.3	18	4.8
09	5	28.070	80	70	66	62	8.9	18	6.6
12	5	28.050	89	72	63	43	9.4	16	7.3
15	5	27.990	93	71	60	34	8.9	14	5.3
18	5	27.955	90	70	60	37	9.4	12	6.3
21	3	27.990	83	68	60	48	7.3	14	5.4
24	3	28.020	78	67	61	57	6.4	16	5.0

SAN ANGELO BASE

WEATHER

PHASE I

SOUTHWEST RESEARCH INSTITUTE

San Antonio, Texas 78284

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Daily Weather Log at San Angelo Proc.

DATE	TIME	Dry Bulb F	Wet Bulb F	RH %	Baro	Temp	RUN	TEST DEPART	TEST RETURN
2-17	0828	62	56	70%	29.92	62	BI 1.1	1	—
2-17	1010	66	60	72%	29.90	66		2	—
2-17	1750	69	61	64	29.72			—	1
2-17	1930	69	62	68%	29.70	69		3	2
2-17	2145	66	60	72	29.70	66		4	—
2-18	0545	52	42	42%	29.88	52			3
2-18	0735	48	39	44%	29.90	48	BI 1.2	1	4
2-18	0950	60	44	26%	29.92	60		2	
2-18	1725	63	48	32%	29.88	63			1
2-18	1930	56	44	37%	29.90	[illegible]			2
2-19	2000	52	45	58%	30.04	52		3	
2-19	2145	50	41	46	30.04	50		4	
2-20	0525	45	42	~~2~~48	30.15	~~20~~45			3
2-20	0740	40	39	92%	30.12	40	BI 2.1	1	4
2-20	1035	55	47	55%	30.14	55		2	
2-20	1825	49	41	50%	30.02	49		3	1
2-20	2000	39	35	66%	30.04	39		4	2
2-21-84	05:30	~~38~~ 40	~~40~~ 38	84%	30.02	~~38~~ 40			3
2-21-84	07:20	42	40	84%	30.02	42			4
2-21-84	0800	43	37	56%	30.01	43	BI 2.2	1	
2-21-84	0955	61	50	46	30.00	61		2	
2-21-84	1730	60	44	26	29.88	60		3	1
2-21-84	1940	56	45	41	29.92	56		4	2
2-22-84	05:00	42	32	30	29.88	42			3
2-22-84	07:10	40	32	40	29.86	40			4
2-22-84	08:00	44	32	50	29.88	44	R 1.1	1	
2-22-84	09:55	64	50	57	29.90	64		2	
2-22	1730	70	48	17	29.78				1
2-22-84	19:40	57	43	30	29.78			3	2
2-22-84	21:45	55	44	40	29.75			4	
2-23-84	05:25	52	42	42%	29.76				3
2-23-84	07:00	48	40	48%	29.78				4
2-23-84	09:10	54	43	40	29.79		R 1.2	1	
2-23-84	09:55	74	54	19%	29.79			2	
2-23-84	17:30	62	48	35	29.80				1

Date: _____ Signature: _____

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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Daily Weather Log

Date	Time	Day Bulb F	Wet Bulb F	RH %	Baro		Run	Test Depart	Test Return
2-23-84	19:25	59	45	32	29.86				2
2-26-84	19:45	45	42	78	29.80			3	
2-26-84	2145	44	41	77	29.90			4	
2-27-84	05:00	43	39	70	30.02				3
2-27-84	07:10	42	40	84	30.08				4
2-27-84	07:55	45	38	52	30.10		R2.1	1	
2-27-84	10:00	55	45	45	30.13			2	
2-27-84	1730	57	44	34	30.09				1
2-27-84	17:30	52	42	47	30.10				2
2-27-84	20:30	46	38	47	30:15			3	
2-27-84	21:40	43	37	56	30:14			4	
2-28-84	06:00	37	32	56	30:20				3
2-28-84	07:10	35	32	71	30:22				4
2-28-84	07:55	39	34	58	30:26		R2.2	1	
2-28-84	09:50	52	40	33	30:26			2	
2-28-84	17:25	51	34	32	30:18				1
2-28-84	19:50	41	34	47	30:19				2
2-28-84	19:51	41	34	47	30:19			3	
2-28-84	21:35	39	35	66	30:20			4	
2-29-84	0515	29	28	84	30:18				3
2-29-84	07:10	33	31	79	30:19				4
2-29-84	0755	34	30	61	30:20		R3.1	1	
2-29-84	09:50	50	39	45	30:20			2	
2-29-84	1825	58	43	27	29:98				1
2-29-84	1940	48	39	39	30:00				2
2-29-84	19:45	49	39	39	30:00			3	
2-29-84	21:20	41	38	75	30:00			4	
3-1-84	05:10	41	36	61	29:94				3
3-1-84	07:05	42	38	69	29.95				4
3-1-84	07:45	43	39	70	29.95		R3.2	1	
3-1-84	09:40	59	49	48	29.96			2	
3-1-84	17:15	70	51	26	29.82				1
3-1-84	19:35	59	41	18	29.85				2
3-1-84	19:36	59	41	18	29.85			3	
3-1-84	[illegible]	58	47	43	29.86			4	

Date: _____ Signature: _____

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San Antonio, Texas 78284

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Project: 08-7928

Daily Weather Log

Date	Time	Dry Bulb F	Wet Bulb F	RH %	BARO		Run	TEST Depart	TEST Return
3-2-84	06:00	50	41	45	29.88				3
3-2-84	07:25	52	48	75	29.89				4
3-2-84	08:00	56	49	61	29.89		R4.1	1	
3-2-84	09:40	73	58	41	29.92			2	
3-2-84	17:30	72	54	30	29.82				1
3-2-84	19:10	65	51	38	29.84				2
3-6-84	19:50	48	40	49	29.99			3	
3-6-84	21:50	43	38	63	30.01			4	
3-7-84	05:40	37	35	82	30.08				3
3-7-84	07:15	41	39	83	30.09				4
3-7-84	07:55	46	41	65	30.10		R4.2	1	
3-7-84	09:55	61	48	38	30:12			2	
3-7-84	17:25	70	49	20	29:99				1
3-7-84	19:40	55	43	36	30:01				2
3-7-84	19:41	55	43	36	30:01			3	
3-7-84	21:30	49	40	44	30:01			4	
3-8-84	05:25	46	38	46	30:02				3
3-8-84	07:05	41	39	83	30:05				4
3-8-84	0845	56	46	46	30.10		R5.1	1	
3-8-84	11:10	64	50	37	30.12			2	
3-8-84	15:15	61	49	42	30:05				1
3-8-84	19:45	51	43	52	30:08				2
3-8-84	19:46	51	43	52	30.08			3	
3-8-84	21:35	41	38	75	30:13			4	
3-9-84	05:20	40	36	57	30.10				3
3-9-84	07:05	42	39	76	30.10				4
3-9-84	07:55	43	38	73	30.10		R5.r	1	
3-9-84	09:45	49	42	61	30.11			2	
3-9-84	17:25	72	59	47	29.90				1
3-9-84	19:20	63	53	52	29.93				2
3-11-84	1940	60	58	88	29.83			3	
3-11-84	2145	58	57	94	29.82			4	
3-12-84	05:20	54	51	81	29.79				3
3-12-84	07:00	57	56	84	29.84				4
3-12-84	0845	65	60	76	29.86		R6.1	1	

Date: _____ Signature: _____

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Project: 08-7728

Daily Weather Log

Date	Time	Dry Bulb F	Wet Bulb F	RH %	BARO		Run	Test Deposit	Test Return
3-12-84	10:10	69	51	27	29.89		R6.1	2	
3-12-84	18:20	73	54	28	29.85				1
3-12-84	19:40	58	48	48	29.85				2
3-12-84	19:41	58	48	48	29.87			3	
3-12-84	2130	53	47	64	29.90			4	
3-13-84	05:20	45	43	85	29.96				3
3-13-84	07:05	44	42	84	30.00				4
3-13-84	07:55	46	44	85	30.05		R6.2	1	
3-13-84	09:45	65	54	49	30.02			2	
3-13-84	17:25	86	61	23	29.90				1
3-13-84	19:20	72	56	36	29.92				2
3-13-84	19:45	67	54	43	29.94			3	
3-13-84	21:30	64	54	53	29.95			4	
3-14-84	05:20	62	54	84	29.95				3
3-14-84	07:05	63	61	90	29.98				4
3-14-84	07:55	64	61	85	29.99		R7.1	1	
3-14-84	09:45	72	64	66	30.00			2	
3-14-84	17:25	83	65	38	29.84				1
3-14-84	19:30	72	61	54	29.86				2
3-14-84	19:31	72	61	54	29.86			3	
3-14-84	21:25	68	61	66	29.89			4	
3-15-84	05:25	68	64	81	29.92				3
3-15-84	07:00	66	64	90	29.94				4
3-15-84	07:55	68	64	81	29.95		R7.2	1	
3-15-84	09:50	74	62	52	29.96			2	
3-15-84	17:30	88	67	33	29.87				1
3-15-84	19:35	73	66	47	29.90				2
3-15-84	2010	73	60	47	29.92			3	
3-15-84	21:25	68	59	60	29.92			4	
3-16-84	07:00	61	60	95	29.95				3
3-16-84	07:01	61	60	95	29.95				4
3-16-84	08:10	64	62	90	29.96		R8.1	1	
3-16-84	10:15	74	62	52	29.96			2	
3-16-84	17:35	79	65	48	29.87				1
3-16-84	19:46	72	62	58	29.87				2

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Date: _____ Signature: _____

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Daily Weather Log

Date	Time	Day Bulb F	Wet Bulb F	RH %	Baro		Run	Test Depart	Test Return
3-18	1930	66	52	38	29.75		Rs. 1	3	
3-18	2135	56	44	37	29.82			4	
3-19-84	05:05	43	37	56	29.96				3
3-19-84	07:00	42	38	69	29.97				4
3-19-84	07:55	43	36	49	29.99		Rs. 2	1	
3-19-84	09:45	50	45	68	29.99			2	
3-19-84	17:20	67	50	29	29.93				1
3-19-84	19:10	58	41	20	29.96				2
3-19-84	19:40	54	43	40	29.98			3	
3-19-84	21:35	48	40	49	29.99			4	
3-20-84	05:10	44	41	77	30.02				3
3-20-84	07:00	44	42	84	30.03				4

Date: _____
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Signature: _____

Ambient Environmental

Measurement Room

PHASE I

SOUTHWEST RESEARCH INSTITUTE
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Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0001 Convoy R101 Candidate Group RS002 Ref.#NRD-002
STD002

Date:	2/20	2/22	2/24	2/29	3/ 8	3/ 8	3/12	3/14	3/16	3/20
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
TIRE	- - - - - - W E A R -									
11102	304.5	306.0	306.6	305.0	305.8	305.0	306.0	306.4	305.9	306.1
									Intercept a	305.32
									Wear Rate b	-0.10
11103	305.5	305.7	305.9	305.2	304.6	304.9	306.0	306.3	305.8	305.9
									Intercept a	305.34
									Wear Rate b	-0.06

Tire Size P195/75R14SL
Dimensions at psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
11102	2/20/84	BI1	800	0.00	0.00	0.0	0
11102	3/20/84	08	8000	0.00	0.00	0.0	0
11103	2/20/84	BI1	800	0.00	0.00	0.0	0
11103	3/20/84	08	8000	0.00	0.00	0.0	0

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M E A S U R E M E N T D A T A F I L E

Test 4S0002 Convoy R201 Candidate Group RS002 Ref.#NRD-002
STD002

Date:	2/20	2/22	2/25	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
TIRE	- - - - - - W E A R -									
11102	304.2	304.9	305.9	304.6	305.7	305.7	305.0	306.9	305.8	305.3
									Intercept a	304.79
									Wear Rate b	-0.16
11103	305.2	304.5	305.9	304.5	305.4	305.8	305.8	306.5	305.5	306.0
									Intercept a	304.92
									Wear Rate b	-0.15

Tire Size P195/75R14SL
Dimensions at psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	CD	CSW	CR%	Hardness
11102	2/20/84	8I1	800	0.00	0.00	0.0	0
11102	3/20/84	08	8000	0.00	0.00	0.0	0
11103	2/20/84	8I1	800	0.00	0.00	0.0	0
11103	3/20/84	08	8000	0.00	0.00	0.0	0

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M E A S U R E M E N T D A T A F I L E

Test 4S0003 Convoy R102 Candidate Group RS002 Ref.#NRD-002
STD002

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
TIRE	- - - - - - W E A R -									
11102	304.5	304.3	305.6	304.3	305.7	305.2	305.8	306.6	305.5	306.0
									Intercept a	304.51
									Wear Rate b	-0.22
11103	305.8	305.7	306.0	305.3	306.0	305.7	306.3	306.3	306.5	306.4
									Intercept a	305.59
									Wear Rate b	-0.11

Tire Size P195/75R14SL
Dimensions at psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
11102	2/20/84	BI1	800	0.00	0.00	0.0	0
11102	3/20/84	08	8000	0.00	0.00	0.0	0
11103	2/20/84	BI1	800	0.00	0.00	0.0	0
11103	3/20/84	08	8000	0.00	0.00	0.0	0

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M E A S U R E M E N T D A T A F I L E

Test 4S0004 Convoy R202 Candidate Group RS002 Ref.#NRD-002
STD002

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
TIRE	- - - - - - W E A R -									
11102	305.8	305.6	306.2	305.5	305.5	305.3	306.2	305.7	306.1	305.8
									Intercept a	305.69
									Wear Rate b	-0.01
11103	305.8	306.5	305.6	305.5	306.0	306.0	306.5	306.7	306.0	306.2
									Intercept a	305.85
									Wear Rate b	-0.06

Tire Size P195/75R14SL
Dimensions at psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
11102	2/20/84	BI1	800	0.00	0.00	0.0	0
11102	3/20/84	08	8000	0.00	0.00	0.0	0
11103	2/20/84	BI1	800	0.00	0.00	0.0	0
11103	3/20/84	08	8000	0.00	0.00	0.0	0

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DATA ROOM MEASUREMENT LOG TEST NO. 450001, 2, 3 + 4

DATE	TIME	Dry Bulb F	Wet Bulb F	RH %	Baro. Hg	Temp F		Reference Tests	Reference INSP
2-20-84	05:35	72	53	~~31~~ 27	30.15	72		182	1
2-20-84	1705	76	57	30	30.02	76		384	1
2-22-84	05:00	76	54	22	29.88	76		182	2
2-22-84	1710	75	54	24	29.78	75		384	2
2-24-84	17:25	72	54	30	30.00	72		182	3
2-25-84	1400	75	58	36	29.68	75		Re 182	3
2-25-84	1545	75	60	42	29.60	75		384	3
2-27-84	1700	77	55	23	30.08	77		182	4
2-29-84	0500	72	51	22	30.18	72		384	4
2-29-84	17:15	75	53	21	29.99	75		384	4
2-29-84	20:50	72	52	24	30.00	72		384	4
3-2-84	0500	75	56	27	29:87	75		182	5
3-2-84	0845	73	58	40	29:90	73		182	5
3-2-84	17:05	77	57	28	29:82	77		384	5
3-2-84	21:10	71	55	36	29.88	71		384	5
3-8-84	05:00	75	53	21	30.01	75		182	6
3-8-84	09:45	71	54	32	30:12	71		182	6
3-8-84	16:55	75	54	26	30.04	75		384	6
3-8-84	20:30	72	53	27	30:10	72		384	6
3-12-84	05:10	73	61	51	29:78	73		182	7
3-12-84	09:50	72	61	54	29.88	72		182	7
3-12-84	17:10	77	59	34	29.84	77		384	7
3-12-84	20:45	73	56	34	29.88	73		384	7
3-14-84	05:00	73	64	62	29.75	73		182	8
3-14-84	09:05	72	64	66	30.00	72		1	8
3-14-84	17:00	78	66	54	29.86	78		384	8
3-14-84	20:50	74	63	55	29.88	74			8
3-16-84	05:00	72	61	54	29.94	72		182	9
3-16-84	10:00	74	67	70	29.97	74			9
3-16-84	17:00	77	68	64	29:88	77		384	9
3-16-84	21:00	73	62	54	29.91	73			9
3-20-84	05:15	72	51	21	30.02	72		182	10
3-20-84	09:15	71	54	32	30.05	71			10
3-20-84	17:00	76	58	33	29:92	76		384	10
3-20-84	20:10	72	55	33	29.93	72			10

Date: _____

Signature: _____

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PRESSURE GAUGE CALIBRATION RECORD

Project: _____

Gauges shown read as indicated when compared to Master SNG-TP.									
Gauge No.						Gauge No.			
Date	Time	17 psi	26 psi	35 psi	By:	17 psi	26 psi	35 psi	By:
2-17-84	08:30	17	26	35	[illegible]				
2-17-84	17:35	17	26	35	[illegible]				
2-18-84	05:20	17	26	35	[illegible]				
2-18-84	05:20	17	26	35	[illegible]				
2-19-84	1945	17	26	35	[illegible]				
2-20-84	04:50	17	26	35	[illegible]				
2-20-84	17:00	17	26	35	[illegible]				
2-21-84	05:15	17	26	35	[illegible]				
2-21-84	17:05	17	26	35	[illegible]				
2-22-84	04:50	17	26	35	[illegible]				
2-22-84	04:55	17	26	35	[illegible]				
2-23-84	04:55	17	26	35	[illegible]				
2-23-84	05:25	17	26	35	[illegible]				
2-24-84	07:10	17	26	35	[illegible]				
2-25-84	17:55	17	26	35	[illegible]				
2-26-84	19:45	17	26	35	[illegible]				
2-27-84	05:10	17	26	35	[illegible]				
2-27-84	17:00	17	26	35	[illegible]				
2-28-84	05:30	17	26	35	[illegible]				
2-28-84	17:50	17	26	35	[illegible]				
2-29-84	[illegible]	17	26	35	[illegible]				
2-29-84	17:00	17	26	35	[illegible]				
3-1-84	04:50	17	26	35	[illegible]				
3-1-84	17:00	17	26	35	[illegible]				
3-2-84	04:55	17	26	35	[illegible]				
3-2-84	17:00	17	26	35	[illegible]				
3-6-84	10:00	17	26	35	[illegible]				
3-6-84	19:40	17	26	35	[illegible]				
3-7-84	04:55	17	26	35	[illegible]				
3-7-84	17:00	17	26	35	[illegible]				
3-8-84	04:55	17	26	35	[illegible]				
3-8-84	16:55	17	26	35	[illegible]				
3-9-84	04:55	17	26	35	[illegible]				
3-9-84	17:00	17	26	35	[illegible]				
			Pressure Gauge Calibration Log						

Date: _____

Signature: _____

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San Antonio, Texas 78284

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PRESSURE GAUGE CALIBRATION RECORD

Gauges shown read as indicated when compared to Master SNG-TP.

Gauge No.						Gauge No.			
Date	Time	17 psi	26 psi	35 psi	By:	17 psi	26 psi	35 psi	By:
3-11-84	1925	17	26	35	PD				
3-12-84	05:00	17	26	35	MO				
3-12-84	16:55	17	26	35	MO				
3-13-84	04:55	17	26	35	MO				
3-13-84	17:00	17	26	35	MO				
3-14-84	04:55	17	26	35	MO				
3-14-84	17:00	17	26	35	MO				
3-15-84	04:55	17	26	35	MO				
3-15-84	17:00	17	26	35	MO				
3-16-84	04:55	17	26	35	MO				
3-16-84	16:55	17	26	35	MO				
3-18-84	1930	17	26	35	PD				
3-19-84	04:55	17	26	35	MO				
3-19-84	17:00	17	26	35	MO				
3-20-84	05:00	17	26	35	MO				
3-20-84	16:55	17	26	35	MO				

Pressure Gauge Calibration Log

Date: _____

Signature: _____

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Buoyancy Effect Corrections Based on —

	T	Temp	+1° =	-.09 g	; -1° =	+.09 g			
TEST 450001		Press	±1.0 =	0.10 g			Correction		
Drop	Date	Time	t °F	Δt °F	patm	Δ patm	t	patm	Net
1	2/20/84	5:35	72	-	14.808				
2	2/22/84	0500	76	+4°	14.676	-.132	-.360	+.0792	-.281
3	2/24/84	0730	72	-4°	14.735	+.059	+.360	-.0354	+.324
4	2/29/84	0500	72	-0	14.823	+.088	0	-.0528	-.053
5	3/2/84	0500	75	+3°	14.671	-.152	-.270	+.0912	-.179
6	3/8/84	0500	75	0	14.740	+.069	0	-.0414	-.041
7	3/12/84	0510	73	-2°	14.627	-.113	+0.180	+.0678	+.248
8	3/14/84	0500	73	0	14.710	+.083	0	-.0498	-.050
9	3/16/84	0500	72	-1°	14.705	-.005	+0.090	+.0030	+.093
10	3/20/84	0515	72	0	14.744	+.039	0	-.0234	-.023
									$\bar{\psi}$ = +.0121
									s = .2072
TEST	450002								6s = 1.2432
1	2/20/84	0535	72	-	14.808				4s = .829
2	2/22/84	0500	76	+4°	14.676	-.132	-.360	+.079	-.282
3	2/25/84	1515	75	-1	14.538	-.138	+.090	+.0828	+.173
4	2/29/84	0500	72	-3	14.823	+.285	+.270	-.171	+.099
5	3/2/84	0845	73	+1	14.686	-.137	-.09	+.0822	-.008
6	3/8/84	0945	71	-2	14.794	+.108	+.18	-.0648	+.115
7	3/12/84	0950	72	+1	14.676	-.118	-.09	+.0708	-.019
8	3/14/84	0905	72	0	14.735	-.059	0	+.0354	+.035
9	3/16/84	1000	74	+2	14.720	-.015	-.18	+.0090	-.171
10	3/20/84	0915	71	-3	14.759	+.039	+.27	-.0234	+.247
	Summary								$\bar{\psi}$ = -.0227
	450001	450002	450003	450004					s = .1657
									6s = .9943
$\bar{\psi}$	+.0121	+.023	+.005	+.103					4s = .6629
s	.2072	.166	.115	.190					
$\bar{\psi}$+2s	+.426	+.355	+.235	+.483					
$\bar{\psi}$-2s	-.402	-.309	-.225	-.277					

Date: _____ Signature: _____ 4/12/84

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project 08-7928-00

Test 450003

Drop	Date	Time	t °F	Δt °F	Pabs	ΔPabs	E	Corr Pabs	[illegible]
1	2/20/84	1205	76		14.745				
2	2/22	1710	75	-1	14.627	-.118	+.09	+.071	[illegible]
3	2/27	1700	77	+2	14.772	+.147	-.18	.088	[illegible]
4	2/29	1715	75	-2	14.735	-.039	+.18	.023	[illegible]
5	3/[illegible]	1705	77	+2	14.646	-.089	-.18	.053	[illegible]
6	3/8	1655	75	-2	14.754	+.108	+.18	-.065	[illegible]
7	3/12	1710	77	+2	[illegible]	-.098	-.18	+.059	-.121
8	3/[illegible]	1700	78	+1	[illegible]	+.010	-.09	-.006	-.096
9	3/12	1700	77	-1	14.676	+.010	+.09	-.006	.094
10	3/20	1700	76	-1	14.676	+.020	+.09	-.012	.102
								$\bar{x}$ = [illegible]	
								S = [illegible]	
								[illegible]	
								[illegible]	

450004

Drop	Date	Time	t °F	Δt °F	Pabs	ΔPabs	E	Corr Pabs	[illegible]
1	2/[illegible]	1205	76		14.745				
2	2/[illegible]	1710	75	-1	[illegible]	-.118	+.09	.011	[illegible]
3	2/27	1700	77	+2	[illegible]	+.147	-.18	-.022	+.268
4	2/29	2050	72	-5	14.735	-.039	+.45	+.023	+.413
5	3/[illegible]	2110	71	-1	14.676	-.059	+.09	+.035	+.125
6	3/8	2030	72	+1	14.78[illegible]	+.108	-.09	.065	-.155
7	3/12	2045	73	+1	14.676	-.108	-.09	.065	-.025
8	3/14	2050	73	+1	14676	-0	-.09	0	-.090
9	3/16	2100	73	-1	14691	+.015	+.09	-.009	.081
10	3/20	2000	72	-1	14.700	+.009	+.09	-.005	.085
								$\bar{x}$ = .1026	
								S = [illegible]	
								[illegible]	
								[illegible]	

4/12/84

Date: _____

Signature: _____

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PHASE II

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: 08-7956

LAB WEATHER DATA AND SOAK LOG

1984 DATE	TIME	START SOAK AFTER RUN	END SOAK AFTER RUN	WALL THER. °F	DB °F	WB °F	RH %	BP	
5-11	1900	1-1		74	79	62	38	29.82	
5-14	0650		1-1	73	73	60	47	30.10	
5-14	1810	1-2		73	75	58	36	30.00	
5-15	0620	M		73	72	58	43	30.02	
5-15	0735		1-2	74	75	62	48	30.06	
5-15	1830	2-1		73	75	59	38	29.94	
5-16	0635		2-1	73	72	58	43	30.00	
5-16	1820	2-2		73	73	63	58	29.99	
5-17	0600	M		74	73	61	51	30.02	
5-17	0755		2-2	74	75	66	63	30.06	
5-17	1845	3-1		73	73	65	66	30.04	
5-18	0635		3-1	74	75	64	56	30.05	
5-18	1825	3-2		74	75	66	63	29.96	
5-21	06:05	M		73	74	60	44	29.80	
5-21	07:05		3-2	74	75	61	45	29.80	
5-21	18:05	4-1		74	77	62	43	29.68	
5-22	06:25		4-1	73	72	59	46	29.76	
5-22	1820	4-2		74	77	61	40	29.78	
5-23	06:05	M		73	73	63	58	30.04	
5-23	07:00		4-2	74	74	65	62	30.06	
5-23	18:35	5-1		74	74	64	59	30.04	
5-24	06:20		5-1	73	73	64	62	30.03	
5-24	18:05	5-2		74	76	64	52	29.88	
5-25	06:05	M		73	74	64	59	29.87	
5-25	08:07		5-2	74	73	63	58	29.84	
5-25	18:10	6-1		74	75	61	45	29.78	
5-28	06:30		6-1	73	74	64	59	30.08	
5-28	18.10	6-2		73	73	64	62	30.16	
5-29	06:00	M		73	72	59	47	30.30	
5-29	07:10		6-2	74	75	62	49	30.31	
5-29	18.25	7-1		73	74	59	41	30.17	
5-30	06:30		7-1	72	73	57	37	30.24	
5-30	18:35	7-2		73	74	59	41	30.07	
5-31	05:55	M		72	73	56	34	30.08	
5-31	08:15		7-2	74	73	59	44	30.08	

M : MEASURE

Date: _____

C47

Signature: _____

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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: 08-7956

LAB Weather Data and Soak Log

1984									
		Start Soak	End Soak	Wall Ther.					
Date	Time	After Run	After Run	°F	DB °F	WB °F	RH %	BP	
5-31	18:50	8-1		74°	75	61	45	29.94	
6-1	06:25		8-1	73°	74	58	38	29.98	
6-1	18:10	8-2		74°	73	59	44	29.89	
6-4	0545	M		73	74	61	48	29.88	
6-4	07:00		8-2	74	73	61	51	29.89	
6-4	18:15	9-1		73	74	61	48	29.80	
6-5	06:20		9-1	73	74	64	59	29.87	
6-5	18:15	9-2		73	73	61	51	29.78	
6-6	05:45		9-2	73	73	63	58	29.88	
6-6	07:50	M		74	74	64	59	29.90	
6-6	18:20	10-1		74	75	65	59	29.83	
6-7	06:00		10-1	73	72	65	70	29.85	
6-7	17:55	10-2		73	75	64	56	29.80	
6-8	05:50		10-2	73	72	65	70	29.87	
6-8	07:10	M		74	75	67	67	29.89	
6-8	18:00	11-1		74	75	67	67	29.85	
6-9	06:00		11-1	73	73	66	70	29.87	
6-9	18:20	11-2		74	77	67	60	29.82	
6-11	05:50		11-2	73	73	65	66	29.96	
6-11	06:55	M		74	74	65	63	29.99	
6-11	17:55	12-1		74	75	65	59	29.90	
6-12	06:15		12-1	73	73	66	70	29.97	
6-12	18:05	12-2		74	74	65	63	29.92	
6-13	05:45		12-2	73	73	65	66	30.02	
6-13	06:45	M		74	74	66	66	30.02	
6-13	18:05	13-1		74	76	65	56	29.96	
6-14	06:05		13-1	73	72	63	62	30.04	
6-14	18:30	13-2		73	74	63	55	29.98	
6-15	05:40		13-2	73	74	65	63	30.04	
6-15	06:40	M		74	74	64	59	30.04	
6-15									

M: Measure

Date: _____

Signature: _____

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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: 08-9

LAB Weather Data and Soak Log

1984								
		Start Soak	End Soak	Wall Ther.				
Date	Time	After Run	After Run	°F	DB °F	WB °F	RH %	BP
6-18	18:00	15-1		74	75	63	52	29.92
6-19	05:55		15-1	73	73	63	58	30.00
6-19	17:55	15-2		75	75	63	52	29.95
6-20	05:45			73	73	63	58	30.02
6-20	06:45		15-2	74	73	63	58	30.02
6-21	15:30			75	74	61	48	29.96
6-22	07:20			73	73	63	58	29.98
6-23	1420			73	73	60	48	29.96
6-23	18.15	16-1		74	72	63	47	29.91
6-25	06:00		16-1	73	72	61	54	30.35
6-25	1840	16-2		76	76	61	42	29.92
6-26	05:50			73	73	63	58	29.95
6-26	07:00		16-2	74	75	61	45	29.94
6-26	19:40	17-1		75	76	62	46	29.29
6-27	05:55		17-1	73	71	60	53	29.91
6-27	18:15	17-2		74	73	61	51	29.90
6-28	05:50			73	73	66	69	29.98
6-28	06:50		17-2	74	73	64	62	29.99
6-28	18:10	18-1		73	73	63	58	29.98
6-29	06:00		18-1	73	73	65	66	30.02
6-29	1810	18-2		74	~~67~~ 74	61	48	29.90
6-30	05:45			73	72	61	54	29.94
6-30	0845		18-2	74	75	62	48	29.98
6-30	1930	19-1		73	75	63	52	29.87
7-2	05:50		19-1	72	72	61	54	30.01
7-2	18:15	19-2		74	74	65	63	29.99
7-3	05:45			72	72	65	70	30.01
7-3	06:45		19-2	73	74	66	67	30.01
7-3	18:05	20-1		74	74	61	48	29.92
7-5	05:50		20-1	73	73	64	62	29.96
7-5								
7-6								

M: Measure

Date: _____ Signature: _____

Corrections:
+1°F → -.09 gm
+1 inch Hg → -0.3 gm

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: _____

After Rinkire	Date	Time	Temp °F	Δ°F	Corr grams	Pressure in Hg / Atm	Δ Pressure	Corr gram	Total Corr gram
1-1	5/14	0650	73°	-	-	30.10	-	-	
1-2	5/15	0735	74	+1°F	-.09	30.06	-.04	+.012	-.08
2-1	5/16	0635	73	-1°F	+.09	30.00	-.06	+.018	+.11
2-2	5/17	0755	74	+1	-.09	30.06	+.06	-.018	-.11
3-1	5/18	0635	74	-	-	30.05	-.01	+.003	+.00
3-2	5/21	0705	74	-	-	29.80	-.25	+.075	+.08
4-1	5/22	0625	73	-1	+.09	29.76	-.04	+.012	+.10
4-2	5/23	0700	74	+1	-.09	30.06	+.30	-.090	-.18
5-1	5/24	0620	73	-1	+.09	30.03	-.03	+.009	+.10
5-2	5/25	0807	74	+1	-.09	29.84	-.19	+.057	-.03
6-1	5/28	0630	73	-1	+.09	30.08	+.24	-.072	+.02
6-2	5/29	0710	74	+1	-.09	30.31	+.23	-.069	-.16
7-1	5/30	0630	72	-2	+.18	30.24	-.07	+.021	+.20
7-2	5/31	0815	74	+2	-.18	30.08	-.16	+.048	-.13
8-1	6/1	0625	73	-1	+.09	29.88	-.20	+.060	+.15
8-2	6/4	0700	74	+1	-.09	29.89	+.01	-.003	-.09
9-1	6/5								
9-2	6/6								
10-1	6/7								
10-2	6/8								

Date: _____

Signature: _____

PHASE III

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: 03-7123-003

LAB WEATHER DATA

1984									
				WALL THER					
DATE	TIME			°F	DB °F	WB °F	RH%	BP	
7-18	18:35			74	75	64	56	30.00	
7-18	21:20			74	73	62	55	30.01	
7-19	04:50			72	73	64	62	30.04	
7-19	08:45			74	74	65	63	30.06	
7-19	09:40			74	75	64	56	30.06	
7-19	16:45			74	72	56	36	29.47	
7-19	19:25			74	76	64	52	29.96	
7-20	07:30			72	73	63	58	30.01	
7-20	20:20			74	74	61	48	29.94	
7-23	05:35			73	73	60	47	30.02	
7-23	07:45			74	73	61	51	30.04	
7-23	09:00			74	75	64	56	30.06	
7-23	17:05			75	77	60	37	29.98	
7-23	20:45			78	80	60	30	29.96	
7-24	05:30			72	72	58	43	30.01	
7-24	07:15			73	74	62	52	30.07	
7-24	10:05			73	74	62	52	30.12	
7-24	16:35			72	70	59	53	30.06	
7-24	20:20			73	74	65	63	30.04	
7-24	21:05			73	72	61	54	30.04	
7-25	04:45			72	72	61	54	30.08	
7-25	09:10			75	75	68	71	30.12	
7-25	10:15			74	73	64	58	30.13	
7-25	16:45			73	71	58	46	30.08	
7-25	20:00			74	74	60	44	30.05	
7-25	20:35			74	73	59	44	30.06	
7-25	21:15			74	74	63	55	30.07	
7-26	04:40			72	71	61	58	30.09	
7-26	05:40			73	73	63	58	30.10	
7-26	07:15			73	72	65	70	30.11	
7-26	09:10			74	75	61	45	30.12	
7-26	16:35			73	72	59	46	30.03	
7-26	19:00			75	76	61	43	30.00	
7-26	21:20			73	74	59	41	30.01	
7-27	04:40			72	73	62	55	30.05	

Date:

Signature:

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San Antonio, Texas 78284

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Project: 01.7723-003

LAB WEATHER DATA

1984									
				WALL THER					
DATE	TIME			°F	DB °F	WB °F	RH%	BP	
7-27	07:35			74	72	62	58	30.07	
7-27	08:20			73	72	61	54	[illegible]	
7-27	09:05			74	74	61	45	30.06	
7-27	16:40			76	75	60	42	29.96	
7-27	[illegible]			77	76	63	50	30.00	
7-27	20:00			77	76	62	46	30.02	
7-27	20:35			76	75	62	48	30.01	
7-30	04:30			72	71	62	61	30.08	
7-30	05:20			73	73	63	58	30.09	
7-30	[illegible]			73	73	64	62	30.09	
7-30	[illegible]			73	73	62	54	30.10	
7-30	16:30			73	72	57	40	30.01	
[illegible]	17:20			[illegible]	73	59	44	30.00	
7-30	19:15			73	74	59	41	[illegible]	
7-30	20:45			73	73	59	44	[illegible]	
7-31	04:30			72	72	[illegible]	50	30.00	
7-31	07:15			75	74	[illegible]	52	30.02	
7-31	08:50			75	74	63	55	30.03	
7-31	09:45			74	75	62	48	[illegible]	
7-31	16:45			74	74	57	35	29.96	
7-31	19:45			77	79	60	32	29.92	
7-31	19:55			77	78	60	34	29.92	
7-31	20:20			77	78	59	32	29.93	
8-1	04:30			72	72	59	46	29.98	
8-1	05:20			73	72	59	46	29.98	
8-1	06:55			73	73	58	40	29.99	
8-1	09:05			74	74	63	55	30.00	
8-1	16:30			77	76	60	39	29.94	
8-1	17:25			78	77	62	43	29.92	
8-1	18:40			77	76	59	36	[illegible]	
8-1	20:35			75	75	61	45	29.94	
8-2	04:30			73	72	60	50	30.00	
8-2	08:15			75	74	63	55	30.06	
8-2	09:15			74	74	64	59	30.08	
8-2	11:00			74	75	63	52	30.08	

Date:

Signature:

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San Antonio, Texas 78284

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Project: 01728-003

LAB WEATHER DATA

1984									
				WALL THER					
DATE	TIME			°F	DB °F	WB °F	RH%	BP	
8-2	16:30			73	73	58	40	30.00	
8-2	19:35			76	77	62	43	29.98	
8-2	20:25			76	75	61	40	29.98	
8-2	21:50			76	76	59	36	30.00	
8-3	05:25			73	73	62	54	30.03	
8-3	09:05			73	74	64	58	30.06	
8-3	10:00			73	73	61	51	30.06	
8-3	16:35			73	72	57	40	30.01	
8-3	17:35			75	74	59	41	30.00	
8-3	19:25			74	72	61	54	30.00	
8-3	20:40			73	74	61	48	30.00	
8-6	04:35			73	73	63	58	30.00	
8-6	07:50			74	73	61	51	30.02	
8-6	09:45			74	74	60	44	30.03	
8-6	16:30			74	73	57	37	29.95	
8-6	19:25			78	78	61	38	[illegible]	
8-6	20:00			78	77	62	35	29.92	
8-7	04:30			72	73	60	47	29.98	
8-7	05:20			73	73	63	58	29.99	
8-7	06:45			74	73	63	58	30.00	
8-7	08:35			73	73	63	58	30.00	
8-7	16:40			74	75	58	35	29.91	
8-7	17:25			76	75	59	38	29.89	
8-7	18:30			76	75	60	42	29.88	
8-7	20:20			76	77	60	37	29.89	
8-8	04:25			72	71	58	46	29.96	
8-8	07:20			74	73	62	54	29.96	
8-8	08:00			74	73	59	44	29.97	
8-8	08:30			73	73	63	58	29.98	
8-8	16:25			75	74	61	48	29.91	
8-8	19:00			78	77	62	43	29.87	
8-8	19:55			78	79	63	41	29.88	
8-8	20:10			78	79	63	41	29.88	
8-9	04:30			72	71	60	53	29.96	
8-9	05:20			73	72	61	54	29.96	

Date: _____ Signature: _____

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San Antonio, Texas 78284

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Project: 08722-003

LAB WEATHER DATA

DATE	TIME			WALL THER °F	DB °F	WB °F	RH%	BP	
8-1	07:00			72	73	62	55	29.99	
8-1	08:35			72	72	61	54	30.01	
8-1	16:20			73	73	58	40	29.94	
8-1	17:10			75	74	59	41	29.92	
8-1	18:35			75	75	60	42	29.93	
8-1	20:40			75	75	60	42	29.95	
8-10	05:50			72	72	59	47	30.03	
8-10	07:20			73	71	62	61	30.03	
8-10	[illegible]			[illegible]	72	60	[illegible]	30.05	
8-10	09:00			73	73	62	55	30.05	
8-10	16:25			72	71	59	42	30.00	
8-10	20:20			[illegible]	77	64	50	29.97	
8-13	04:20			72	73	63	58	30.04	
8-13	05:15			73	73	60	62	30.03	
8-13	06:45			73	73	65	66	30.04	
8-13	08:35			73	73	65	66	30.06	
8-13	16:30			73	73	59	32	30.00	
8-13	17:20			75	74	60	44	29.98	
8-13	18:30			75	75	58	35	29.98	
8-13	20:40			73	74	60	44	30.00	
8-14	04:40			72	72	60	50	30.04	
8-14	07:10			74	72	61	54	30.04	
8-14	08:10			74	73	62	54	30.05	
8-14	08:25			74	73	62	54	30.05	
8-14	16:40			74	73	58	40	29.98	
8-14	18:40			77	78	62	40	29.96	
8-14	19:50			78	78	61	38	29.96	
8-14	20:35			78	78	61	38	29.97	
8-15	04:25			72	73	61	51	30.04	
8-15	05:15			73	73	62	54	30.04	
8-15	06:50			73	73	63	58	30.05	
8-15	08:25			73	73	62	54	30.08	
8-15	16:15			73	72	57	40	30.02	
8-15	17:10			75	74	60	44	30.01	
8-15	18:40			74	74	63	55	30.02	

Date: _____

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Project: 04-7728-003

LAB WEATHER DATA

1984									
				WALL THER					
DATE	TIME			°F	DB °F	WB °F	RH%	BP	
8-15	21:50			73	73	62	54	30.08	
8-16	04:30			72	71	61	57	30.10	
8-16	08:05			72	72	60	50	30.12	
8-16	09:05			72	72	62	58	30.13	
8-16	09:30			72	72	63	62	[illegible]	
8-16	16:30			72	71	57	42	30.06	
[illegible]	20:00			76	75	[illegible]	45	[illegible]	

Date: _____

Signature: _____

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Project: _____

PRESSURE GAUGE CALIBRATION RECORD

Gauges shown read as indicated when compared to Master SNG-TP.									
Gauge No.						Gauge No.			
Date	Time	17 psi	26 psi	35 psi	By:	17 psi	26 psi	35 psi	By:
7-9-84	04:00	17	26	35	[illegible]				
7-10-84	06:40	17	26	35	[illegible]				
7-10-84	07:00	17	26	35	[illegible]				
7-18-84	07:20	17	26	35	[illegible]				
7-18-84	17:10	17	26	35	[illegible]				
7-19-84	04:55	17	26	35	[illegible]				
7-19-84	16:45	17	26	35	[illegible]				
7-20-84	18:30	17	26	35	[illegible]				
7-21-84	08:00	17	26	35	[illegible]				
7-22-84	1950	17	26	35	[illegible]				
7-23-84	05:35	17	26	35	[illegible]				
7-23-84	17:05	17	26	35	[illegible]				
7-24-84	05:35	17	26	35	[illegible]				
7-24-84	16:35	17	26	35	[illegible]				
7-25-84	04:45	17	26	35	[illegible]				
7-25-84	16:45	17	26	35	[illegible]				
7-26-84	04:40	17	26	35	[illegible]				
7-26-84	16:30	17	26	35	[illegible]				
7-27-84	04:40	17	26	35	[illegible]				
7-27-84	16:35	17	26	35	[illegible]				
7-28-84	08:30	17	26	35	[illegible]				
7-29-84	1950	17	26	35	[illegible]				
7-30-84	04:25	17	26	35	[illegible]				
7-30-84	16:35	17	26	35	[illegible]				
7-31-84	04:30	17	26	35	[illegible]				
7-31-84	16:30	17	26	35	[illegible]				
8-1-84	04:25	17	26	35	[illegible]				
8-1-84	16:30	17	26	35	[illegible]				
8-2-84	04:30	17	26	35	[illegible]				
8-2-84	16:30	17	26	35	[illegible]				
8-3-84	05:30	17	26	35	[illegible]				
8-3-84	16:35	17	26	35	[illegible]				
8-5-84	1950	17	26	35	[illegible]				
8-6-84	04:30	17	26	35	[illegible]				
			Pressure Gauge Calibration Log						

Date: _____

Signature: _____

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Job: _____

PRESSURE GAUGE CALIBRATION RECORD

Project: _____

Gauges shown read as indicated when compared to Master SNG-TP.

Gauge No.						Gauge No.			
Date	Time	17 psi	26 psi	35 psi	By:	17 psi	26 psi	35 psi	By:
8-6-84	16:30	17	26	35	[illegible]				
8-7-84	04:30	17	26	35	[illegible]				
8-7-84	16:40	17	26	35	[illegible]				
8-8-84	04:25	17	26	35	[illegible]				
8-8-84	16:20	17	26	35	[illegible]				
8-9-84	04:25	17	26	35	[illegible]				
8-9-84	16:20	17	26	35	[illegible]				
8-10-84	05:45	17	26	35	[illegible]				
8-10-84	16:20	17	26	35	[illegible]				
8-12-84	1940	17	26	35	[illegible]				
8-13-84	04:20	17	26	35	[illegible]				
8-13-84	16:30	17	26	35	[illegible]				
8-14-84	04:25	17	26	35	[illegible]				
8-14-84	16:30	17	26	35	[illegible]				
8-15-84	04:25	17	26	35	[illegible]				
8-15-84	16:20	17	26	35	[illegible]				
8-16-84	04:25	17	26	35	[illegible]				
8-16-84	16:30	17	26	35	[illegible]				

Pressure Gauge Calibration Log

Date: _____

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PHASE III

PRESSURE MEASUREMENT RECORD

PRIOR TO ADJUSTMENT

BUT

AFTER SEVEN (7) HOUR (MIN)

CONDITIONING IN

MEASUREMENT ROOM

SOUTHWEST RESEARCH INSTITUTE
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Project: _____

MEASUREMENT DAYS - PSI PRIOR TO ADJUSTMENT

DATE	7-20-84	7-23-84	7-25-84	7-27-84	7-31-84	8-2-84	8-6-84	8-8-84	8-10-84
3611	26	—	26	26	26	26	26	26	26
3612	26	—	26	26	26	26	26	26	26
3613	25	—	26	26	26	26	26	26	26
3614	26	—	26	26	26	26	26	26	26
3621	26	—	26	26	26	26	26	26	26
3622	26	—	26	26	26	26	26	26	26
3623	26	—	26	26	26	26	26	26	26
3624	25	—	26	26	26	26	26	26	26
3631	26	—	26	26	26	26	26	26	26
3632	25	—	26	26	26	26	26	26	26
3633	25	—	26	26	26	26	26	26	26
3634	25	—	26	26	26	26	26	26	26
3641	25	—	26	26	26	26	26	26	26
3642	26	—	26	26	26	26	26	26	26
3643	25	—	26	26	26	26	26	26	26
3644	26	—	26	26	26	26	26	26	26
3711	—	25	26	26	26	26	26	26	26
3712	—	25	26	26	26	26	26	26	26
3713	—	25	26	26	26	26	26	26	26
3714	—	25	26	26	26	26	26	26	26
3721	—	25	26	26	26	26	26	26	26
3722	—	25	26	26	26	26	26	26	26
3723	—	25	26	26	26	26	26	26	26
3724	—	25	26	26	26	26	26	26	26
3731	—	25	26	26	26	26	26	26	26
3732	—	25	26	26	26	26	26	26	26
3733	—	25	26	26	26	26	26	26	26
3734	—	25	26	26	26	26	26	26	26
3741	—	25	26	26	26	26	26	26	26
3742	—	25	26	26	26	26	25	26	26
3743	—	25	26	26	26	26	25	26	26
3744	—	25	26	26	26	26	25	25	26

Date: _____

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Project:

MEASUREMENT DATE - PSI Prior To Adjustment

DATE	7-23-84	7-25-84	7-27-84	7-31-84	8-2-84	8-6-84	8-8-84	8-10-84
3811	25	26	26	26	26	26	26	26
3812	25	26	26	26	26	26	26	26
3813	25	26	26	26	26	26	26	26
3814	25	26	26	26	26	26	26	26
3821	25	26	26	26	26	26	26	26
3822	25	26	26	26	26	26	26	26
3823	25	26	26	26	26	26	26	26
3824	26	26	26	26	26	26	26	26
3831	25	26	26	26	26	26	26	26
3832	26	26	26	26	26	26	26	26
3833	26	26	26	26	26	26	26	26
3834	25	26	26	26	26	26	26	26
3841	25	26	26	26	26	26	26	26
3842	26	26	26	26	26	26	26	26
3843	25	26	26	26	26	26	26	26
3844	26	26	26	26	26	26	26	26
3911	25	26	26	26	25	26	26	26
3912	25	25	26	26	26	26	26	26
3913	25	26	26	26	26	26	26	26
3914	25	26	26	26	26	26	26	26
3921	25	26	26	26	26	26	26	26
3922	25	26	26	26	26	26	26	26
3923	25	26	26	26	26	26	26	26
3924	25	26	26	26	26	26	26	26
3931	26	26	26	26	26	26	26	26
3932	25	26	26	26	26	26	26	26
3933	25	26	26	26	26	26	26	26
3934	25	26	26	26	26	26	26	26
3941	25	26	26	26	26	26	26	26
3942	25	26	26	26	26	26	26	26
3943	25	26	26	26	26	26	26	26
3944	26	26	26	26	26	26	26	26

Date:

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MEASUREMENT DAYS - PST PRIOR TO ADJUSTMENT

DATE	8-14-84	8-16-84							
3611	26	26							
3612	26	26							
3613	26	26							
3614	26	26							
3621	26	26							
3622	26	26							
3623	26	26							
3624	26	26							
3631	26	26							
3632	26	26							
3633	26	26							
3634	26	26							
3641	26	26							
3642	26	26							
3643	26	26							
3644	26	26							
3711	26	26							
3712	26	26							
3713	26	26							
3714	26	26							
3721	26	26							
3722	26	26							
3723	26	26							
3724	26	26							
3731	26	26							
3732	26	26							
3733	26	26							
3734	26	26							
3741	26	26							
3742	26	26							
3743	26	26							
3744	26	26							

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Project:

MEASUREMENT DAYS - PSI PRIOR TO Adjustment

DATE	8-14-84	8-16-84							
3811	26	26							
3812	26	26							
3813	26	26							
3814	26	26							
3821	26	26							
3822	26	26							
3823	26	26							
3824	26	26							
3831	26	26							
3832	26	26							
3833	26	26							
3834	26	26							
3841	26	26							
3842	26	26							
3843	26	26							
3844	26	26							
3911	26	26							
3912	26	26							
3913	26	26							
3914	26	26							
3921	26	26							
3922	26	26							
3923	26	26							
3924	26	26							
3931	26	26							
3932	26	26							
3933	26	26							
3934	26	26							
3941	26	26							
3942	26	26							
3943	26	26							
3944	26	26							

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Project:

NON-MEASUREMENT DAYS - PSI PRIOR TO ADJUSTMENT AFTER SOAK

Date	7-19-84	7-24-84	7-26-84	7-30-84	8-1-84	8-3-84	8-7-84	8-9-84	8-13-84
3611	24	25	25	25	26	25	26	25	25
3612	25	25	25	25	26	25	25	25	25
3613	25	25	26	25	26	26	25	26	25
3614	24	26	25	25	25	26	25	25	25
3621	24	26	25	25	26	26	25	26	25
3622	24	26	26	25	26	25	26	25	26
3623	24	25	25	26	26	26	25	25	25
3624	24	26	25	25	26	25	26	25	25
3631	24	25	25	25	26	25	26	26	25
3632	24	25	25	25	26	25	26	25	25
3633	24	26	25	25	26	26	26	25	26
3634	24	26	25	25	25	25	25	25	25
3641	24	25	25	25	25	25	26	25	25
3642	24	25	25	25	26	25	25	25	25
3643	24	26	25	25	26	25	25	25	25
3644	24	26	25	25	25	25	26	26	26
3711	24	26	26	25	25	26	25	25	25
3712	24	25	25	25	26	25	25	25	25
3713	25	26	25	25	25	25	26	25	25
3714	24	26	25	26	25	25	25	25	26
3721	24	25	25	25	26	25	26	25	25
3722	24	25	26	25	26	25	25	25	25
3723	24	26	25	25	25	25	26	25	26
3724	24	25	25	25	25	25	26	25	25
3731	24	25	25	26	25	26	25	25	25
3732	24	25	25	25	25	25	25	25	25
3733	24	26	25	26	25	26	25	25	25
3734	23	25	25	25	25	25	25	25	25
3741	24	25	25	25	25	26	25	25	25
3742	23	26	25	25	25	26	26	25	25
3743	24	25	25	25	25	25	26	25	25
3744	23	25	25	25	25	25	26	26	25

Date:

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Non-Measurent Days - PSI Prior To Adjustment After Soak

	7-19-84	7-24-84	7-26-84	7-30-84	8-1-84	8-3-84	8-7-84	8-9-84	8-13-84
3811	24	25	26	25	26	25	25	25	25
3812	24	25	25	25	26	25	25	25	25
3813	24	25	25	25	26	25	25	25	25
3814	24	25	26	25	25	25	25	25	25
3821	24	25	26	25	26	25	26	25	26
3822	24	25	26	25	25	25	26	25	25
3823	24	25	26	25	26	25	26	26	25
3824	24	25	25	25	26	25	25	25	25
3831	25	25	25	25	26	25	26	25	25
3832	25	25	26	25	26	25	26	25	25
3833	24	25	26	25	26	25	26	25	25
3834	25	25	25	25	26	25	26	25	25
3841	24	25	25	25	26	25	25	25	25
3842	24	25	25	25	26	25	25	25	25
3843	24	25	25	25	26	25	26	26	25
3844	24	25	25	25	26	25	25	25	25
3911	24	25	25	25	26	26	25	25	25
3912	24	25	25	26	25	25	26	26	25
3913	24	25	25	25	25	25	25	26	25
3914	24	25	25	25	26	25	25	26	25
3921	24	25	25	25	26	25	25	25	25
3922	24	25	25	25	26	25	26	25	25
3923	24	25	25	26	25	25	26	25	25
3924	24	25	25	25	26	25	25	25	25
3931	24	25	25	26	26	25	25	25	25
3932	25	25	25	25	25	25	25	25	25
3933	24	25	25	26	25	25	25	25	25
3934	24	25	25	25	26	25	25	25	25
3941	23	25	25	25	25	25	25	25	25
3942	23	25	25	25	26	25	25	25	25
3943	24	25	25	25	26	25	25	25	25
3944	24	25	25	25	26	25	25	25	25

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Project:

NON-MEASUREMENT DAYS- PSI PRIOR TO ADJUSTMENT

DATE	8-15-84								
3611	25								
3612	25								
3613	25								
3614	25								
3621	26								
3622	26								
3623	25								
3624	26								
3631	25								
3632	26								
3633	25								
3634	25								
3641	25								
3642	25								
3643	25								
3644	25								
3711	25								
3712	25								
3713	25								
3714	25								
3721	25								
3722	25								
3723	25								
3724	25								
3731	26								
3732	25								
3733	26								
3734	26								
3741	25								
3742	25								
3743	25								
3744	25								

Date:

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Non-Measurement Days - PSI Prior To Adjustment

Date	8-15-84								
3811	25								
3812	26								
3813	26								
3814	25								
3821	25								
3822	25								
3823	25								
3824	25								
3831	25								
3832	25								
3833	25								
3834	26								
3841	25								
3842	26								
3843	25								
3844	25								
3911	26								
3912	25								
3913	26								
3914	25								
3921	25								
3922	26								
3923	26								
3924	25								
3931	25								
3932	25								
3933	25								
3934	25								
3941	25								
3942	26								
3943	26								
3944	25								

Date:

Signature:

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US Department of Transportation

National Highway Traffic Safety Administration

Memorandum

Subject: On the Weighing of Tires

Date: December 3, 1982

From: J.L. Bascunana
Senior Research Engineer
Crash Avoidance Research Division

Reply to Attn of: NRD-11

To: Distribution

For purposes of analyzing tire tread wear, it has been suggested to compare the changes in tire tread depth with the corresponding changes in tire weight. This memorandum addresses some questions regarding the accuracy of measuring changes in tire weight. It refers to the case in which tire weight changes are determined by weighing the tire mounted on its rim (to avoid mounting and dismounting the tire) and inflated. The weighing is done after cleaning the wheel according to specifications, and after adjusting (if needed) the inflation pressure to its specific test value.

To carry out the discussion, let:

g = acceleration of gravity
M = air molecular weight, 28.97 lbm/mole
m = wheel mass indicated by weighing machine, lbm
m_a = tire air mass, lbm
m_s = mass of solid portion of wheel (tire and rim), lbm
p = tire absolute air pressure, psia
p_{atm} = atmospheric pressure, psia
p_g = tire inflation, gage pressure, psi
R = universal gas constant, 1545 lb_f ft/mole ^oR
T = air temperature, ^oR
V = total wheel volume, ft^3
V_a = tire air volume, ft^3
V_s = solid wheel volume, ft^3
ρ_{atm} = atmospheric density, lbm/ft^3.

When weighing the wheel, we have:

$$mg = (m_s + m_a)g - V\rho_{atm}g, \qquad (1)$$

where the last term on the right side of this equation is the buoyant force on the wheel.

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Eliminating g, eqt. (1) can be written as

$$m = m_s + m_a - V\rho_{atm}. \qquad (2)$$

Now, for the temperatures and pressures of the atmosphere and of the inflating air, the ideal gas law holds with insignificant error, and, therefore, we can write

$$m_a = pV_aM/RT, \text{ and also} \qquad (3)$$

$$\rho_{atm} = p_{atm}\, M/RT. \qquad (4)$$

Substituting equations (3) and (4) into equation (2), we get

$$m = m_s + (pV_a\, M/RT) - (Vp_{atm}\, M/RT). \qquad (5)$$

Now, considering that $p = p_{atm} + p_g$, and $V = V_s + V_a$,

equation (5) can be written as

$$m = m_s + (p_{atm}\, V_a\, M/RT) + (p_gV_a\, M/RT) - (V_ap_{atm}\, M/RT) - V_s\, p_{atm}\, M/RT), \text{ or}$$

$$m = m_s + (p_gV_a\, M/RT) - (p_{atm}\, V_s\, M/RT). \qquad (6)$$

The last equation indicates that the only buoyancy that could introduce error is the buoyancy of the solid portion of the wheel, because the buoyancy of the tire air cancels out.

From equation (6), we see that the actual solid mass of the wheel is

$$m_s = m - (p_gV_a\, M/RT) + (p_{atm}\, V_s\, M/RT). \qquad (7)$$

Equation (7) points out that since V_a, M, and R are constants, the variations in m_s can only be caused by tread wear, changes in T and p_{atm}, and errors in the measurements of wheel weight and inflation pressure. If T and p_{atm} do not change, the precision in measuring tread wear depends exclusively on the precision of the balance used for weighing the wheel and on the precision in measuring the inflation pressure. (For a few mils of tread wear, V_s changes insignificantly, and, therefore, the last term on eqt. (7) can be ignored for constant p_{atm} and T. On the other hand, for a large tread wear the change in V_s would also have to be considered).

The magnitude of the errors introduced in the determination of m_s, when the changes in T and p_{atm} are not considered, can be estimated. Consider, for example, a case in which

$V_a = 1\ ft^3$

[illegible] psi = 29.921 inHg

$V_s = 0.25\ ft^3$

$p_g = 25$ psi

$p_{atm_o} = 14.7$ psi

$T_o = 530\ ^oR(70^oF)$,

and suppose that the tire is used and that the atmospheric pressure changes to $p_{atm_1} = 14.2$ psia. Then, although the weighing machine would indicate a change in mass equal to $m_o - m_1$, equation (7) shows that the actual change in mass due to wear would be

$$m_{so} - m_{s1} = m_o - m_1 + (p_{atm_o} - p_{atm_1})\ V_s\ M/RT.$$

That is, if the correction term $(p_{atm_o} - p_{atm_1})\ V_s\ M/RT$ were not considered, the error would be

$(14.7-14.2)x12^2x0.25x28.97/1545x530 = 0.000637$ lbm
≈ 0.3 grams.

Similarly, for instance, if $p_{atm1} = p_{atmo}$ but $T_1 = 550^oR(90^oF)$ instead of $T_o = 530^oR$, we would find

$$m_{so}-m_{s1}=m_o-m_1+(p_gV_aM/R)\left(\frac{1}{T_1}-\frac{1}{T_o}\right)+(p_{atm}V_s\ M/R)\left(\frac{1}{T_o}-\frac{1}{T_1}\right),$$ and

that in this case the error would be

$$(25x12^2x28.97/1545)\left(\frac{1}{550}-\frac{1}{530}\right)$$
$$+(14.7x12^2x0.25x28.96/1545)\left(\frac{1}{530}-\frac{1}{550}\right)$$
$$=-0.004636+0.000682=-0.003954 \text{ lbm} \approx -1.8 \text{ grams.}$$

Overall, it appears that the effect of disregarding the buoyancy component that does not cancel out would be minor for tread wear values that are not very large. On the other hand, there is a need for stabilization and standardization of the wheel temperature. Also, if stabilization of the temperature were not included, equation (7) above should be expanded to distinguish between the temperature of the air in the tire, T_a, and the atmospheric temperature, T_{atm}. Needless to say, the weighing of the wheel (to get the mass m) and the measuring of the inflation pressure, p_g, should both be carried out using instruments and procedures that can provide the required precision.

APPENDIX D

TEST COURSE ENVIRONMENTAL RECORDS

Tire Temperatures

Road Temperatures

Ambient Temperatures

Phase I - 02/17/84 - 03/19/84

Phase II - 05/11/84 - 07/05/84

Phase III - 07/18/84 - 08/15/84

PHASE I

02/17/84 - 03/19/84

TESTS

4S0001
4S0002
4S0003
4S0004

4S 0001

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Temperature Normalization

Ts/8000= 65.993

Circuit	Ta	Tb	Tc	Td	Te	Ts	Ts/800
1	53	64	68	73	70	67.2	
2	44	58	71	68	68	64.6	65.9
3	38	51	54	63	52	54.0	
4	31	50	71	64	65	60.3	57.1
5	38	53	72	75	70	65.1	
6	48	62	80	70	71	69.6	67.3
7	34	51	50	53	48	49.6	
8	31	47	64	55	53	53.9	51.7
9	34	35	59	61	61	51.6	
10	35	36	69	75	72	59.7	55.7
11	47	56	83	86	75	73.3	
12	36	52	80	85	69	69.6	71.5
13	53	65	75	75	62	69.5	
14	40	61	65	72	70	64.2	66.9
15	62	70	81	87	72	77.3	
16	45	65	84	90	84	77.6	77.5
17	64	72	81	82	83	77.8	
18	68	71	84	88	85	80.5	79.2
19	66	68	75	76	79	73.1	
20	43	46	64	77	67	61.3	67.2

4S 0002

Temperature Normalization

Ts/8000= 70.28513

Circuit	Ta	Tb	Tc	Td	Te	Ts	Ts/800
1	62	74	72	76	65	72.0	
2	55	76	75	72	57	71.3	71.7
3	47	55	60	61	52	57.2	
4	51	74	76	73	57	71.0	64.1
5	55	73	75	79	58	72.3	
6	66	79	77	67	60	72.6	72.4
7	43	58	63	58	51	57.8	
8	42	57	59	57	54	56.2	57.0
9	43	59	61	63	58	59.3	
10	52	71	75	74	64	70.9	65.1
11	62	74	83	77	76	76.9	
12	53	79	81	78	60	75.6	76.3
13	66	77	77	62	55	70.4	
14	46	64	67	67	65	64.4	67.4
15	68	88	79	71	65	77.2	
16	72	83	80	85	68	80.2	78.7
17	72	69	79	86	75	77.2	
18	74	75	87	93	88	84.5	80.9
19	69	72	77	83	73	76.2	
20	50	63	66	63	57	62.4	69.3

Temperature Normalization Ts/8000= 53.1785

Circuit	Ta	Tb	Tc	Td	Te	Ts	Ts/800
1	69	66	66	56	52	62.5	
2	47	52	55	45	34	49.2	55.8
3	45	49	42	43	34	43.5	
4	51	56	49	50	40	50.3	46.9
5	53	62	58	46	48	54.7	
6	41	45	57	55	44	51.0	52.9
7	38	37	35	35	38	36.0	
8	40	35	35	35	32	35.1	35.6
9	37	35	35	37	34	35.5	
10	59	60	62	58	53	59.4	47.5
11	47	57	50	47	42	50.1	
12	53	57	54	51	46	53.2	51.6
13	52	59	57	42	45	52.3	
14	56	61	62	58	61	60.2	56.3
15	63	67	59	57	49	59.9	
16	56	75	73	69	67	70.6	65.3
17	72	79	56	69	68	67.4	
18	75	73	72	67	61	70.2	68.8
19	51	59	43	43	46	48.0	
20	57	64	54	46	49	54.3	51.2

4S0004

4S0004

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Temperature Normalization

Ts/8000= 53.30037

Circuit	Ta	Tb	Tc	Td	Te	Ts	Ts/800
1	64	71	63	62	54	64.0	
2	46	55	53	41	52	49.9	57.0
3	36	47	41	35	45	41.1	
4	45	54	55	50	40	51.3	46.2
5	46	67	56	45	48	54.6	
6	40	45	51	43	49	46.5	50.5
7	40	49	50	47	45	47.8	
8	36	33	33	26	33	31.5	39.6
9	43	37	35	44	42	39.0	
10	53	61	58	61	50	58.4	48.7
11	39	53	51	44	48	48.6	
12	46	58	61	50	53	55.6	52.1
13	48	55	49	46	42	49.1	
14	55	68	59	61	63	61.9	55.5
15	57	60	59	59	60	59.2	
16	66	71	67	67	63	67.6	63.4
17	68	70	68	67	75	68.9	
18	68	73	72	67	65	70.1	69.5
19	59	59	45	43	51	49.7	
20	54	63	56	40	32	51.4	50.6

PHASE II

05/11/84 - 07/05/84

TEST

4S0005

Run/Circ	1/1	1/2	2/1	2/2	3/1	3/2	4/1	4/2
Date	5/11	5/14	5/15	5/16	5/17	5/18	5/21	5/22
Amb 1.	86.4	86.9	80.2	72.1	72.7	79.3	88.6	93.6
2.	87.6	86.9	80.9	70.5	71.2	78.5	87.9	94.3
Road	100.9	96.0	88.0	75.8	75.1	87.6	97.6	109.8
Tread								
1111	99.5	102.3	98.3	84.0	80.7	94.0	105.4	110.1
2	104.1	106.4	94.8	81.9	85.5	96.0	101.0	115.7
3	103.3	105.0	99.4	81.4	80.2	94.2	104.6	108.7
4	104.8	98.8	96.1	81.7	84.8	90.2	100.6	108.2
Grp X	103.0	103.1	97.1	82.2	82.8	93.6	102.9	110.7
Cv %	2.29	3.27	2.13	1.43	3.31	2.62	2.37	3.10
1121	101.8	104.8	101.4	86.2	83.8	94.5	106.8	109.1
2	108.4	109.5	99.3	86.4	88.4	99.8	104.5	111.2
3	102.2	106.8	102.1	86.0	82.3	96.6	109.4	108.0
4	110.1	103.7	100.3	88.2	88.6	95.5	106.2	110.2
Grp M	105.6	106.2	100.8	86.7	85.8	96.6	106.7	109.6
Cv %	4.03	2.41	1.23	1.16	3.71	2.37	1.90	1.30
Sidewall								
1111	102.7	105.8	99.9	86.8	83.5	96.3	108.8	116.7
2	105.9	108.6	97.0	85.5	87.1	97.9	105.0	117.5
3	106.4	107.0	100.9	84.3	82.1	96.7	109.9	114.3
4	106.5	102.9	97.8	84.7	86.2	94.5	105.2	111.5
Grp X	105.4	106.1	98.9	85.3	84.7	96.3	107.3	115.0
Cv %	1.74	2.30	1.85	1.29	2.77	1.49	2.32	2.36
1121	103.4	107.2	101.5	88.5	86.6	95.5	108.3	114.1
2	107.3	110.3	100.2	88.2	87.9	100.0	105.5	116.2
3	106.0	108.5	102.1	85.3	84.2	97.7	110.0	109.7
4	110.0	106.2	100.8	88.6	88.3	96.6	108.9	113.8
Grp M	106.7	108.1	101.2	87.7	86.8	97.5	108.2	113.4
Cv %	2.56	1.63	0.83	1.77	2.14	1.99	1.77	2.40

Test		Tire Temperature										
		Ambient Temperature			Group (1403)				Group (1404)			
	Date				Tread		Sidewall		Tread		Sidewall	
RC	-84	Local	Probe	Road	Mean	Cv	Mean	Cv	Mean	Cv	Mean	Cv
11	0511	86.4	87.6	100.9	103.0	2.29	105.4	1.74	105.6	4.03	106.7	2.56
12	0514	86.9	86.9	96.0	103.1	3.27	106.1	2.30	106.2	2.41	108.1	1.63
21	0515	80.2	80.9	88.0	97.1	2.13	98.9	1.85	100.8	1.23	101.2	0.83
22	0516	72.1	70.5	75.8	82.2	1.43	85.3	1.29	86.7	1.16	87.7	1.77
31	0517	72.7	71.2	75.1	82.8	3.31	84.7	2.77	85.8	3.71	86.8	2.14
32	0518	79.3	78.5	87.6	93.6	2.62	96.3	1.49	96.6	2.37	97.5	1.99
41	0521	88.6	87.9	97.6	102.9	2.37	107.3	2.32	106.7	1.90	108.2	1.77
42	0522	93.6	94.3	109.8	110.7	3.10	115.0	2.36	109.6	1.30	113.4	2.40

Run/Circ	5/1	5/2	6/1	6/2	7/1	7/2	8/1	8/2
Date	5/23	5/24	5/25	5/28	5/29	5/30	5/31	6/01
Amb 1.	88.2	89.1	92.8	77.3	74.0	77.3	84.1	83.7
2.	88.0	89.8	93.8	78.2	75.4	79.9	85.4	84.4
Road	96.2	100.8	106.4	83.8	88.8	89.1	97.2	94.2
Tread								
1111	101.6	105.2	109.5	93.9	89.6	92.1	89.8	95.2
2	105.4	108.9	107.5	91.6	89.6	95.5	91.3	93.9
3	104.2	107.7	109.3	89.1	89.6	95.3	94.9	96.1
4	106.4	104.4	109.8	92.3	89.6	91.6	95.9	93.6
Grp X	104.4	106.6	109.0	91.7	89.6	93.6	93.0	94.7
Cv %	1.97	1.96	0.97	2.18	0.02	2.17	3.12	1.22
1121	104.6	107.0	109.8	94.8	92.4	94.5	93.0	94.8
2	108.6	114.3	111.6	97.8	95.7	100.8	94.9	97.6
3	107.5	109.8	114.4	95.2	94.7	91.1	98.2	95.0
4	111.7	108.7	111.6	92.4	93.3	92.4	95.2	98.9
Grp M	108.1	110.0	111.9	95.1	94.0	94.7	95.3	96.6
Cv %	2.70	2.84	1.69	2.34	1.56	4.56	2.25	2.09
Sidewall								
1111	105.2	106.7	111.0	95.3	91.3	89.5	92.6	97.3
2	107.4	110.2	109.8	92.8	91.6	93.5	91.7	97.4
3	107.1	108.4	111.2	90.3	90.7	95.3	94.9	98.1
4	108.1	106.1	112.3	93.4	93.4	88.7	94.5	97.7
Grp X	107.0	107.8	111.1	92.9	91.7	91.8	93.4	97.6
Cv %	1.14	1.71	0.93	2.23	1.25	3.46	1.66	0.40
1121	107.6	108.0	113.3	94.4	94.5	95.4	98.8	98.8
2	108.2	114.3	112.1	97.2	95.7	102.8	95.6	99.0
3	109.6	111.2	116.3	95.5	97.0	93.7	100.2	96.3
4	111.3	108.2	112.2	92.5	96.3	93.0	98.0	101.0
Grp M	109.2	110.4	113.5	94.9	95.9	96.2	98.2	98.8
Cv %	1.52	2.68	1.71	2.06	1.09	4.69	1.97	1.94

Test		Tire Temperature										
		Ambient Temperature			Group (1403)				Group (1404)			
	Date				Tread		Sidewall		Tread		Sidewall	
RC	-84	Local	Probe	Road	Mean	Cv	Mean	Cv	Mean	Cv	Mean	Cv
51	0523	88.2	88.0	96.2	104.4	1.97	107.0	1.14	108.1	2.70	109.2	1.52
52	0524	89.1	89.8	100.8	106.6	1.96	107.8	1.71	110.0	2.84	110.4	2.68
61	0525	92.8	93.8	106.4	109.0	0.97	111.1	0.93	111.9	1.69	113.5	1.71
62	0528	77.3	78.2	83.8	91.7	2.18	92.9	2.23	95.1	2.34	94.9	2.06
71	0529	74.0	75.4	88.8	89.6	0.02	91.7	1.25	94.0	1.56	95.9	1.09
72	0530	77.3	79.9	89.1	93.6	2.17	91.8	3.46	94.7	4.56	96.2	4.69
81	0531	84.1	85.4	97.2	93.0	3.12	93.4	1.66	95.3	2.25	98.2	1.97
82	0601	83.7	84.4	94.2	94.7	1.22	97.6	0.40	96.6	2.09	98.8	1.94

Run/Circ	9/1	9/2	10/1	10/2	11/1	11/2	12/1	12/2
Date	6/04	6/05	6/06	6/07	6/08	6/09	6/11	6/12
Amb 1.	76.9	84.9	87.0	87.6	85.9	88.6	86.4	87.8
2.	77.1	84.9	84.7	86.4	83.1	89.0	84.9	86.9
Road	82.3	89.0	85.9	88.2	84.2	89.8	84.5	87.1
Tread								
1111	80.8	89.2	88.8	86.8	83.2	88.9	85.7	87.8
2	82.2	91.4	87.7	87.3	83.1	90.0	83.9	87.5
3	79.6	93.4	85.7	88.6	84.6	88.7	85.2	86.6
4	83.3	91.4	89.9	86.5	84.1	91.3	85.4	86.4
Grp X	81.5	91.3	88.0	87.3	83.8	89.7	85.0	87.1
Cv %	2.01	1.85	2.05	1.07	0.88	1.32	0.95	0.77
1121	80.1	88.9	87.5	87.1	79.5	89.3	81.5	83.8
2	82.2	94.1	79.7	88.0	81.8	88.2	79.5	85.4
3	81.0	92.7	88.5	83.7	83.0	88.4	82.8	80.0
4	80.9	91.8	88.1	84.6	83.8	85.4	83.7	82.3
Grp M	81.1	91.9	86.0	85.9	82.0	87.8	81.9	82.9
Cv %	1.02	2.39	4.90	2.37	2.28	1.95	2.26	2.77
Sidewall								
1111	82.8	91.2	89.2	87.8	84.1	90.1	85.3	87.4
2	83.4	96.3	87.7	88.6	85.7	91.0	84.8	87.7
3	83.1	91.4	87.2	89.5	85.0	88.8	85.2	86.7
4	85.8	91.9	86.9	87.0	84.0	89.7	86.1	86.8
Grp X	83.8	92.7	87.8	88.2	84.7	89.9	85.4	87.2
Cv %	1.67	2.59	1.13	1.23	0.92	1.03	0.64	0.57
1121	82.5	90.0	89.5	87.6	83.1	89.7	82.1	84.6
2	83.6	93.0	86.5	89.0	82.2	89.1	80.4	85.8
3	83.1	92.2	90.2	86.7	83.9	89.3	83.4	81.0
4	82.9	93.2	92.5	87.6	83.3	87.6	83.6	82.5
Grp M	83.1	92.1	89.7	87.7	83.1	88.9	82.4	83.5
Cv %	0.57	1.58	2.74	1.10	0.84	1.07	1.78	2.55

Test		Tire Temperature										
		Ambient Temperature			Group (1403)				Group (1404)			
	Date				Tread		Sidewall		Tread		Sidewall	
RC	-84	Local	Probe	Road	Mean	Cv	Mean	Cv	Mean	Cv	Mean	Cv
91	604	76.9	77.1	82.3	81.5	2.01	83.8	1.67	81.1	1.02	83.1	0.57
92	605	84.9	84.9	89.0	91.3	1.85	92.7	2.59	91.9	2.39	92.1	1.58
101	606	87.0	84.7	85.9	88.0	2.05	87.8	1.13	86.0	4.90	89.7	2.74
102	607	87.6	86.4	88.2	87.3	1.07	88.2	1.23	85.9	2.37	87.7	1.10
111	608	85.9	83.1	84.2	83.8	0.88	84.7	0.92	82.0	2.28	83.1	0.84
112	609	88.6	89.0	89.8	89.7	1.32	89.9	1.03	87.8	1.95	88.9	1.07
121	611	86.4	84.9	84.5	85.0	0.95	85.4	0.64	81.9	2.26	82.4	1.78
122	612	87.8	86.9	87.1	87.1	0.77	87.2	0.57	82.9	2.77	83.5	2.55

Run/Circ	13/1	13/2	14/1	14/2	15/1	15/2	16/1	16/2
Date	6/13	6/14	6/15	6/16	6/18	6/19	6/20	6/25
Amb 1.	85.9	86.1	86.9	89.0	89.9	89.7	90.2	96.3
2.	84.9	84.1	84.8	88.6	87.2	88.3	89.4	94.0
Road	85.2	84.6	84.7	88.0	88.3	88.8	103.0	113.7
Tread								
1111	85.3	84.4	84.3	88.9	88.2	88.7	115.9	122.0
2	85.4	84.6	83.8	88.5	89.9	89.4	107.9	115.3
3	85.7	84.6	85.2	89.0	88.3	89.2	112.9	113.0
4	85.7	85.0	85.4	88.8	88.8	88.8	108.4	118.3
Grp X	85.5	84.7	84.7	88.8	88.8	89.0	111.3	117.1
Cv %	0.25	0.29	0.92	0.26	0.87	0.40	3.42	3.30
1121	82.5	84.5	81.2	90.0	80.5	87.2	113.9	121.6
2	84.9	84.8	78.8	88.6	85.7	86.9	110.2	121.8
3	85.0	83.6	84.5	84.0	87.3	84.8	112.8	117.7
4	85.2	82.9	84.3	86.2	87.9	80.5	113.4	121.7
Grp M	84.4	84.0	82.2	87.2	85.3	84.9	112.6	120.7
Cv %	1.52	1.02	3.27	3.04	3.94	3.64	1.48	1.65
Sidewall								
1111	85.4	84.4	84.5	89.4	89.2	88.2	114.4	123.8
2	85.6	85.5	83.4	88.8	88.6	89.2	109.1	116.8
3	85.9	84.5	85.8	88.6	88.0	88.2	114.6	115.6
4	85.6	85.5	85.2	89.4	89.6	86.9	107.7	120.0
Grp X	85.6	85.0	84.8	89.0	88.9	88.1	111.5	119.1
Cv %	0.24	0.70	1.20	0.45	0.78	1.08	3.19	3.09
1121	83.1	85.5	82.7	89.1	82.0	87.6	112.1	123.4
2	85.7	86.1	82.1	89.6	86.1	87.9	108.8	121.3
3	85.4	82.9	88.2	85.5	86.3	84.5	113.1	116.9
4	86.2	82.6	84.0	86.9	86.8	82.1	111.8	119.8
Grp M	85.1	84.3	84.3	87.8	85.3	85.5	111.5	120.4
Cv %	1.64	2.15	3.29	2.18	2.61	3.26	1.68	2.27

Test		Tire Temperature										
		Ambient Temperature			Group (1403)				Group (1404)			
	Date				Tread		Sidewall		Tread		Sidewall	
RC	-84	Local	Probe	Road	Mean	Cv	Mean	Cv	Mean	Cv	Mean	Cv
131	0613	85.9	84.9	85.2	85.5	0.25	85.6	0.24	84.4	1.52	85.1	1.64
132	0614	86.1	84.1	84.6	84.7	0.29	85.0	0.70	84.0	1.02	84.3	2.15
141	0615	86.9	84.8	84.7	84.7	0.92	84.8	1.20	82.2	3.27	84.3	3.29
142	0616	89.0	88.6	88.0	88.8	0.26	89.0	0.45	87.2	3.04	87.8	2.18
151	0618	89.9	87.2	88.3	88.8	0.87	88.9	0.78	85.3	3.94	85.3	2.61
152	0619	89.7	88.3	88.8	89.0	0.40	88.1	1.08	84.9	3.64	85.5	3.26
161	0620	90.2	89.4	103.0	111.3	3.42	111.5	3.19	112.6	1.48	111.5	1.68
162	0625	96.3	94.0	113.7	117.1	3.30	119.1	3.09	120.7	1.65	120.4	2.27

Run/Circ	17/1	17/2	18/1	18/2	19/1	19/2	20/1	20/2
Date	6/26	6/27	6/28	6/29	6/30	7/02	7/03	7/05
Amb 1.	100.2	91.4	79.1	90.8	95.0	88.6	90.8	91.5
2.	98.3	89.1	77.4	90.4	94.2	86.7	89.7	89.9
Road	117.0	101.8	83.6	109.8	112.4	102.8	102.8	105.4
Tread								
1111	116.6	111.9	95.0	111.8	112.1	109.2	110.1	112.3
2	118.9	112.4	88.8	112.7	114.9	107.9	102.0	107.5
3	120.1	110.2	95.6	107.4	115.7	105.2	109.4	106.7
4	118.9	108.0	89.6	109.8	118.0	106.8	103.9	110.5
Grp X	118.6	110.6	92.2	110.4	115.2	107.3	106.4	109.2
Cv %	1.24	1.81	3.86	2.14	2.08	1.57	3.77	2.40
1121	118.8	114.9	95.2	116.3	113.9	111.0	112.5	112.6
2	121.6	117.3	93.0	115.7	114.0	111.0	109.7	112.4
3	120.8	112.3	95.4	109.7	117.7	109.0	114.2	109.7
4	126.2	110.3	93.1	115.0	118.2	109.6	108.2	111.5
Grp M	121.8	113.7	94.2	114.2	115.9	110.2	111.2	111.5
Cv %	2.58	2.71	1.37	2.68	1.99	0.91	2.42	1.19
Sidewall								
1111	117.6	111.7	95.4	115.5	113.8	110.6	110.2	114.6
2	120.4	114.2	90.1	112.2	116.6	109.0	104.2	107.4
3	120.3	110.4	97.6	108.8	117.6	106.3	111.1	107.9
4	123.9	109.1	92.1	112.4	117.4	110.1	103.4	111.5
Grp X	120.6	111.3	93.8	112.2	116.4	109.0	107.2	110.4
Cv %	2.16	1.94	3.53	2.47	1.52	1.76	3.71	3.06
1121	120.0	113.9	94.0	118.2	113.4	110.6	111.5	114.8
2	121.4	115.2	91.9	114.0	109.5	112.1	106.8	110.7
3	121.7	111.7	96.7	107.8	118.2	108.4	114.2	107.2
4	124.8	111.2	93.6	113.2	115.6	108.8	106.6	111.1
Grp M	122.0	113.0	94.1	113.3	114.2	110.0	109.8	110.9
Cv %	1.65	1.68	2.14	3.76	3.24	1.55	3.40	2.80

Test		Tire Temperature										
		Ambient Temperature			Group (1403)				Group (1404)			
	Date				Tread		Sidewall		Tread		Sidewall	
RC	-84	Local	Probe	Road	Mean	Cv	Mean	Cv	Mean	Cv	Mean	Cv
171	0626	100.2	98.3	117.0	118.6	1.24	120.6	2.16	121.8	2.58	122.0	1.65
172	0627	91.4	89.1	101.8	110.6	1.81	111.3	1.94	113.7	2.71	113.0	1.68
181	0628	79.1	77.4	83.6	92.2	3.86	93.8	3.53	94.2	1.37	94.1	2.14
182	0629	90.8	90.4	109.8	110.4	2.14	112.2	2.47	114.2	2.68	113.3	3.76
191	0630	95.0	94.2	112.4	115.2	2.08	116.4	1.52	115.9	1.99	114.2	3.24
192	0702	88.6	86.7	103.8	107.3	1.57	109.0	1.76	110.2	0.91	110.0	1.55
201	0703	90.8	89.7	102.8	106.4	3.77	107.2	3.71	111.2	2.42	109.8	3.40
202	0705	91.5	89.9	105.4	109.2	2.40	110.4	3.06	111.5	1.19	110.9	2.80

PHASE III

07/18/84 - 08/15/84

TESTS

4S0006
4S0007
4S0008
4S0009

Run/Circ	B1/1	B1/2	B2/1	B2/2	O1/1	O1/2	O2/1	O2/2
Date	7/18	7/19	7/23	7/24	7/25	7/26	7/27	7/30
Amb 1.	91.6	91.9	93.1	80.0	79.1	88.5	89.6	85.4
2.	90.7	90.9	92.6	78.8	77.6	86.8	88.7	84.4
Road	102.3	101.1	104.4	85.9	80.6	98.7	105.4	101.5
Tread								
3611	108.9	108.6	109.2	87.8	81.8	104.2	110.8	102.5
2	107.8	110.8	108.3	92.0	91.0	107.3	105.8	100.8
3	107.1	109.6	110.4	90.6	85.4	106.4	113.5	99.3
4	109.7	107.1	108.7	91.7	90.2	100.2	109.0	100.7
Grp X	108.4	109.0	109.1	90.5	87.1	104.5	109.8	100.8
Cv %	1.09	1.44	0.81	2.11	4.97	3.04	2.95	1.30
3621	111.3	107.2	112.7	93.6	86.8	103.9	112.5	105.8
2	115.3	109.9	108.0	93.9	89.7	114.7	111.7	105.8
3	109.3	107.5	114.0	91.2	84.8	108.7	114.7	103.1
4	110.2	105.3	106.2	88.6	88.3	102.2	108.7	103.5
Grp M	111.5	107.5	110.2	91.9	87.4	107.4	111.9	104.5
Cv %	2.37	1.76	3.38	2.67	2.38	5.22	2.24	1.38
3631	111.1	105.6	111.8	95.0	85.7	102.7	112.5	105.7
2	111.2	112.8	111.1	90.2	86.7	107.1	107.5	100.3
3	111.6	114.4	114.2	89.6	85.4	108.3	115.6	101.3
4	115.1	109.0	113.2	91.3	88.5	103.3	111.2	106.1
Grp G	112.2	110.4	112.6	91.5	86.6	105.3	111.7	103.4
Cv %	1.69	3.58	1.23	2.63	1.62	2.62	3.03	2.89
3641	107.9	109.3	109.3	92.7	86.6	104.2	107.6	105.5
2	114.2	114.7	113.8	94.6	93.2	109.3	108.3	103.5
3	110.9	111.9	108.9	92.0	85.7	108.2	111.1	99.9
4	113.6	106.6	112.2	90.4	91.2	103.8	108.6	104.0
Grp B	111.7	110.6	111.1	92.4	89.2	106.4	108.9	103.2
Cv %	2.59	3.15	2.13	1.86	4.02	2.59	1.40	2.32
Sidewall								
3611	108.3	109.0	110.2	88.1	83.3	105.8	112.7	104.4
2	109.6	111.3	107.8	90.3	89.8	109.0	107.5	102.4
3	110.8	105.8	110.7	88.8	84.7	107.1	114.6	101.6
4	113.1	107.2	108.7	91.1	88.9	101.8	109.5	101.3
Grp X	110.5	108.3	109.3	89.6	86.7	105.9	111.1	102.4
Cv %	1.84	2.20	1.23	1.52	3.64	2.89	2.85	1.35
3621	108.7	106.4	110.5	91.0	85.2	104.7	111.3	106.3
2	109.3	108.9	106.3	91.9	87.6	111.5	109.1	106.3
3	111.0	102.9	111.7	90.1	85.0	108.1	114.3	103.7
4	110.1	104.8	103.7	87.9	86.3	104.3	110.8	103.9
Grp M	109.8	105.7	108.1	90.2	86.0	107.2	111.4	105.1
Cv %	0.93	2.40	3.43	1.89	1.39	3.15	1.98	1.36
3631	111.9	109.2	110.6	92.2	85.9	107.1	113.4	108.7
2	112.2	114.0	111.0	90.9	85.9	110.1	110.4	104.9
3	114.2	114.2	111.7	91.6	84.3	110.4	116.4	103.4
4	117.4	109.2	113.2	88.5	87.6	105.6	113.7	106.4
Grp G	113.9	111.7	111.6	90.8	85.9	108.3	113.5	105.9
Cv %	2.22	2.54	1.03	1.79	1.57	2.16	2.19	2.16
3641	108.9	106.8	109.5	92.0	87.0	104.7	111.3	107.4
2	112.9	115.2	113.3	94.0	91.9	111.9	110.6	106.1
3	111.6	110.5	109.4	90.3	84.5	109.9	113.8	102.5
4	113.4	106.9	114.1	89.6	90.7	105.9	109.8	103.9
Grp B	111.7	109.8	111.6	91.5	88.6	108.1	111.4	104.9
Cv %	1.81	3.64	2.25	2.11	3.83	3.10	1.53	2.10

Run/Circ	03/1	03/2	04/1	04/2	05/1	05/2	06/1	06/2
Date	7/31	8/01	8/02	8/03	8/06	8/07	8/08	8/09
Amb 1.	86.6	88.8	93.7	87.7	93.8	90.8	89.4	88.9
2.	85.1	87.8	91.8	86.2	91.7	89.9	87.8	86.4
Road	98.0	99.9	105.1	100.6	104.6	103.5	99.0	100.8
Tread								
3611	103.3	105.7	109.1	103.4	107.7	107.7	106.4	107.6
2	104.4	107.6	108.0	104.0	106.4	108.9	100.9	107.0
3	101.9	107.0	110.6	104.9	106.8	107.0	106.2	103.6
4	104.3	106.1	107.5	104.5	108.2	107.1	100.7	109.5
Grp X	103.5	106.6	108.8	104.2	107.3	107.7	103.5	106.9
Cv %	1.11	0.79	1.27	0.66	0.78	0.80	3.10	2.32
3621	104.4	112.1	109.4	106.0	106.4	107.7	106.8	111.5
2	110.8	110.6	110.5	109.1	112.6	112.3	103.6	111.1
3	106.6	108.8	110.9	105.7	109.6	110.6	108.4	107.3
4	107.7	107.6	107.8	103.4	108.1	106.7	103.0	107.3
Grp M	107.4	109.8	109.7	106.0	109.2	109.3	105.4	109.3
Cv %	2.47	1.81	1.29	2.24	2.42	2.37	2.44	2.13
3631	102.6	105.7	113.9	106.6	105.9	110.7	105.8	109.8
2	106.0	110.4	108.4	103.8	106.2	111.6	102.5	106.5
3	103.1	109.6	113.7	104.2	109.9	110.6	108.4	106.0
4	107.5	106.0	110.1	107.3	110.6	105.9	104.6	108.9
Grp G	104.8	107.9	111.5	105.4	108.2	109.7	105.3	107.8
Cv %	2.23	2.25	2.41	1.64	2.25	2.35	2.31	1.72
3641	105.2	104.3	111.9	106.5	104.9	107.8	108.8	109.5
2	104.7	109.5	108.8	109.3	110.9	113.3	105.0	106.2
3	104.6	109.2	113.4	105.9	105.0	109.5	109.3	107.3
4	107.5	105.0	108.4	107.5	110.2	102.6	105.2	107.1
Grp B	105.5	107.0	110.6	107.3	107.7	108.3	107.1	107.5
Cv %	1.27	2.56	2.20	1.36	3.01	4.12	2.15	1.30
Sidewall								
3611	104.0	106.7	109.3	106.0	107.1	106.7	106.4	110.6
2	104.3	109.4	109.4	106.9	106.1	108.3	101.7	108.1
3	103.3	106.1	110.8	105.6	108.2	106.4	107.5	105.3
4	107.0	107.0	110.6	105.1	108.8	105.9	101.7	109.7
Grp X	104.6	107.3	110.0	105.9	107.6	106.8	104.3	108.4
Cv %	1.55	1.33	0.70	0.71	1.07	0.97	2.93	2.16
3621	104.2	109.5	110.2	105.7	106.3	106.4	106.2	111.7
2	108.5	111.1	111.3	109.5	110.5	111.4	103.0	110.3
3	106.3	107.2	110.7	105.2	107.2	109.0	108.7	106.5
4	110.2	106.8	111.0	102.4	108.9	104.2	105.8	109.3
Grp M	107.3	108.6	110.8	105.7	108.2	107.7	105.9	109.5
Cv %	2.43	1.86	0.40	2.74	1.72	2.91	2.21	2.01
3631	105.6	108.0	113.4	108.7	107.2	111.0	107.0	112.8
2	107.2	110.9	111.4	108.2	108.1	112.1	105.2	110.0
3	104.9	109.3	115.5	107.1	110.5	110.3	109.9	107.9
4	108.3	106.4	113.1	107.8	113.7	106.8	107.9	110.9
Grp G	106.5	108.7	113.3	108.0	109.9	110.1	107.5	110.4
Cv %	1.47	1.78	1.50	0.62	2.66	2.06	1.79	1.82
3641	106.3	105.8	111.9	107.6	108.2	107.9	109.4	112.6
2	105.3	110.7	110.7	109.0	111.7	115.4	106.8	108.2
3	106.0	109.9	115.1	107.0	106.0	110.6	110.0	108.2
4	109.8	105.7	110.4	106.8	111.8	103.0	106.0	109.2
Grp B	106.8	108.0	112.0	107.6	109.4	109.2	108.0	109.6
Cv %	1.87	2.45	1.90	0.92	2.59	4.75	1.83	1.89

Run/Circ	07/1	07/2	08/1	08/2
Date	8/10	8/13	8/14	8/15
Amb 1.	86.9	88.3	89.5	85.5
2.	84.9	87.3	88.6	84.6
Road	95.5	103.6	102.4	96.7
Tread				
3611	102.7	109.5	110.3	103.1
2	106.1	112.6	107.0	99.4
3	103.2	110.6	111.0	100.3
4	105.9	105.9	109.6	100.4
Grp X	104.5	109.7	109.5	100.8
Cv %	1.69	2.57	1.61	1.58
3621	104.1	108.2	111.8	106.0
2	109.7	115.6	108.5	103.3
3	104.2	112.3	111.2	101.5
4	105.5	105.2	105.9	104.1
Grp M	105.9	110.3	109.4	103.7
Cv %	2.48	4.15	2.49	1.80
3631	103.4	111.5	111.5	104.1
2	106.4	110.7	106.9	101.2
3	107.5	109.6	113.7	99.7
4	109.6	110.4	109.9	103.9
Grp G	106.7	110.5	110.5	102.2
Cv %	2.42	0.71	2.60	2.13
3641	101.4	112.6	108.3	104.6
2	106.8	115.4	110.5	102.0
3	102.1	112.4	112.3	102.7
4	109.4	110.2	112.2	102.5
Grp B	104.9	112.7	110.8	102.9
Cv %	3.64	1.89	1.68	1.11
Sidewall				
3611	104.4	111.1	110.7	104.5
2	106.5	114.0	108.5	101.9
3	105.9	110.5	113.4	101.2
4	108.5	107.0	112.7	100.8
Grp X	106.3	110.6	111.3	102.1
Cv %	1.60	2.57	1.99	1.64
3621	102.7	108.4	110.7	104.9
2	107.7	114.3	107.0	102.5
3	105.8	111.8	112.6	100.5
4	107.6	106.1	106.4	103.9
Grp M	105.9	110.1	109.2	102.9
Cv %	2.22	3.27	2.71	1.85
3631	106.0	113.2	113.3	108.6
2	109.5	112.2	110.2	104.7
3	107.0	110.1	115.4	102.6
4	111.5	113.1	112.5	106.2
Grp G	108.5	112.1	112.8	105.5
Cv %	2.27	1.29	1.91	2.40
3641	103.1	114.9	108.4	107.1
2	106.5	116.7	110.6	102.6
3	105.2	111.6	113.8	103.0
4	111.0	111.1	114.1	103.1
Grp B	106.4	113.6	111.7	103.9
Cv %	3.11	2.36	2.45	2.03

Run/Circ	B1/1	B1/2	B2/1	B2/2	O1/1	O1/2	O2/1	O2/2
Date	7/18	7/19	7/23	7/24	7/25	7/26	7/27	7/30
Amb 1.	88.5	90.7	97.1	79.0	81.5	92.0	91.6	88.4
2.	85.2	89.0	92.6	76.0	78.4	89.1	89.7	86.9
Road	96.3	97.2	106.7	82.9	88.3	95.7	104.1	101.4
Tread								
3711	104.2	98.6	113.9	90.0	93.1	100.8	109.2	103.1
2	100.0	101.1	110.7	88.4	94.0	103.7	109.8	102.6
3	99.3	101.4	115.1	89.1	92.0	103.4	107.1	104.2
4	99.3	99.5	111.3	88.3	97.1	101.1	108.1	103.8
Grp X	100.7	100.1	112.7	89.0	94.0	102.2	108.5	103.4
Cv %	2.34	1.32	1.86	0.89	2.33	1.49	1.13	0.70
3721	102.6	103.5	120.6	90.5	94.9	107.5	111.3	107.8
2	102.7	100.5	114.0	89.4	92.5	108.6	107.8	104.9
3	102.8	100.8	121.6	90.6	94.9	109.8	112.4	108.5
4	106.6	106.6	121.0	93.9	95.4	113.6	111.0	108.5
Grp M	103.7	102.8	119.3	91.1	94.4	109.9	110.6	107.4
Cv %	1.87	2.78	2.99	2.11	1.36	2.40	1.77	1.58
3731	103.3	104.8	112.3	92.2	94.6	96.9	114.4	107.3
2	107.7	108.0	110.0	93.4	96.4	101.2	112.6	110.0
3	104.0	104.9	114.6	92.8	93.2	100.6	117.5	108.1
4	107.7	105.9	109.3	92.9	97.2	101.4	111.2	106.6
Grp G	105.7	105.9	111.5	92.8	95.4	100.0	113.9	108.0
Cv %	2.24	1.39	2.16	0.55	1.87	2.04	2.37	1.32
3741	104.8	107.7	111.6	87.3	95.3	99.9	106.2	109.0
2	109.3	107.1	114.2	87.3	96.6	107.0	109.3	111.3
3	104.5	106.6	114.5	91.2	97.6	106.2	107.5	111.4
4	109.5	105.1	112.5	89.6	97.1	100.9	107.1	111.1
Grp B	107.0	106.6	113.2	88.8	96.6	103.5	107.5	110.7
Cv %	2.55	1.05	1.20	2.13	1.01	3.49	1.20	1.07
Sidewall								
3711	104.0	101.1	114.6	90.5	97.0	102.7	108.6	105.3
2	100.7	103.8	113.3	94.6	95.3	104.4	112.8	108.1
3	103.7	103.0	118.1	92.7	98.2	103.1	106.3	107.5
4	101.2	100.1	113.6	87.9	97.6	102.4	113.1	103.0
Grp X	102.4	102.0	114.9	91.4	97.0	103.1	110.2	106.0
Cv %	1.65	1.69	1.90	3.18	1.29	0.86	3.00	2.18
3721	104.7	103.4	116.0	92.2	96.6	107.3	110.5	105.6
2	102.0	102.4	115.9	93.9	92.1	110.1	109.5	106.1
3	104.8	102.1	118.9	93.4	96.3	107.5	111.5	108.1
4	102.5	104.4	115.9	91.3	94.1	106.5	112.6	105.4
Grp M	103.5	103.1	116.7	92.7	94.8	107.9	111.0	106.3
Cv %	1.42	1.00	1.27	1.29	2.25	1.44	1.20	1.14
3731	109.9	108.0	113.4	97.6	98.8	100.5	116.0	110.7
2	107.6	109.2	112.8	97.8	95.5	101.8	116.9	112.1
3	109.6	107.3	115.6	98.9	97.5	99.3	116.4	110.7
4	109.9	108.8	112.7	95.7	99.5	101.7	112.7	109.1
Grp G	109.2	108.3	113.6	97.5	97.8	100.8	115.5	110.7
Cv %	1.03	0.81	1.19	1.37	1.81	1.66	1.66	1.10
3741	107.3	106.6	112.8	90.1	96.2	103.4	107.4	109.4
2	106.1	108.8	114.2	90.1	97.3	103.3	110.5	112.2
3	108.9	106.2	116.5	92.7	98.8	102.0	109.0	110.0
4	107.8	105.0	115.3	88.7	97.4	100.0	110.8	108.1
Grp B	107.5	106.6	114.7	90.4	97.4	102.2	109.4	109.9
Cv %	1.05	1.50	1.38	1.86	1.06	1.56	1.44	1.57

Run/Circ	03/1	03/2	04/1	04/2	05/1	05/2	06/1	06/2
Date	7/31	8/01	8/02	8/03	8/06	8/07	8/08	8/09
Amb 1.	90.6	91.5	93.1	86.8	93.7	94.0	91.4	90.9
2.	88.5	89.5	90.3	84.8	92.0	90.5	88.5	88.4
Road	102.4	103.8	103.8	94.3	102.1	102.6	99.4	101.3
Tread								
3711	106.8	107.0	109.3	101.9	103.8	104.5	105.8	105.2
2	108.2	111.8	105.7	104.2	107.8	105.3	106.6	103.3
3	107.9	111.3	111.3	101.5	102.4	104.7	106.6	105.4
4	111.2	107.8	104.5	102.4	107.8	105.6	103.3	103.7
Grp X	108.5	109.5	107.7	102.5	105.4	105.0	105.6	104.4
Cv %	1.75	2.21	2.93	1.19	2.63	0.51	1.51	1.02
3721	112.6	109.5	111.0	101.5	107.7	109.6	106.3	111.4
2	109.5	111.2	110.0	98.9	108.1	107.5	104.3	108.4
3	112.8	111.0	112.7	99.5	110.6	110.2	105.4	109.6
4	117.2	115.8	109.6	103.0	110.6	110.3	103.7	111.0
Grp M	113.0	111.9	110.8	100.7	109.3	109.4	104.9	110.1
Cv %	2.82	2.45	1.26	1.90	1.41	1.18	1.09	1.25
3731	106.7	114.5	109.2	102.3	109.1	110.7	108.0	106.7
2	108.0	117.2	109.5	106.3	109.8	110.1	105.6	99.4
3	107.1	114.7	106.9	99.3	108.1	110.2	107.3	99.5
4	109.6	113.2	111.2	104.1	110.9	109.3	107.1	106.1
Grp G	107.9	114.9	109.2	103.0	109.4	110.1	107.0	102.9
Cv %	1.17	1.44	1.62	2.87	1.07	0.52	0.96	3.91
3741	109.9	106.2	113.3	104.6	106.3	110.0	106.7	110.0
2	110.4	114.0	114.1	108.8	108.3	114.6	107.5	106.5
3	109.1	111.6	113.4	106.2	106.7	112.5	106.5	105.8
4	113.1	109.7	110.5	104.9	109.3	111.3	108.5	110.8
Grp B	110.6	110.4	112.8	106.1	107.7	112.1	107.3	108.3
Cv %	1.57	2.99	1.42	1.83	1.27	1.75	0.84	2.33
Sidewall								
3711	109.4	112.4	109.2	102.0	106.5	107.4	104.6	107.0
2	108.8	112.1	108.4	103.7	106.6	105.3	105.8	106.0
3	113.2	109.5	110.3	101.8	105.5	104.9	106.7	107.5
4	112.1	107.7	106.1	102.1	108.2	107.1	106.8	102.8
Grp X	110.9	110.4	108.5	102.4	106.7	106.2	106.0	105.8
Cv %	1.89	2.01	1.62	0.88	1.05	1.16	0.98	2.02
3721	110.7	112.3	109.3	102.5	106.6	109.9	104.8	108.4
2	110.4	113.5	110.3	100.1	107.4	107.3	104.9	109.1
3	111.5	110.5	112.1	99.4	109.8	108.2	105.3	109.4
4	114.0	109.7	111.9	100.8	109.9	108.9	105.6	108.2
Grp M	111.6	111.5	110.9	100.7	108.4	108.6	105.2	108.8
Cv %	1.47	1.54	1.21	1.31	1.55	1.00	0.34	0.54
3731	107.5	118.3	110.4	105.0	109.9	111.6	104.7	108.2
2	109.3	119.8	112.0	105.9	110.2	109.8	105.1	103.4
3	112.1	115.7	112.7	100.9	105.9	107.7	106.8	103.4
4	112.5	113.7	114.9	103.7	112.6	112.0	105.6	106.3
Grp G	110.3	116.9	112.5	103.9	109.6	110.3	105.5	105.3
Cv %	2.15	2.34	1.65	2.09	2.54	1.80	0.86	2.24
3741	109.8	111.0	111.8	104.7	105.8	108.6	103.3	108.3
2	109.7	111.2	111.5	106.9	109.3	111.9	105.4	108.2
3	112.4	111.7	111.1	103.6	106.6	109.4	104.6	106.2
4	111.7	109.3	111.9	100.5	109.3	111.2	106.4	106.8
Grp B	110.9	110.8	111.6	103.9	107.7	110.3	104.9	107.4
Cv %	1.26	0.95	0.32	2.54	1.70	1.39	1.23	0.98

Run/Circ	07/1	07/2	08/1	08/2
Date	8/10	8/13	8/14	8/15
Amb 1.	86.7	91.1	92.0	81.3
2.	84.5	89.3	89.8	80.4
Road	95.2	102.9	98.0	88.5
Tread				
3711	100.4	106.0	105.2	92.2
2	102.6	107.0	107.1	92.2
3	101.1	105.8	103.2	91.4
4	100.4	105.7	104.6	93.9
Grp X	101.1	106.1	105.0	92.4
Cv %	1.03	0.55	1.51	1.12
3721	104.7	106.1	110.9	96.3
2	104.3	105.0	109.5	92.4
3	104.2	106.1	109.2	92.0
4	108.1	107.0	112.3	98.5
Grp M	105.3	106.0	110.5	94.8
Cv %	1.75	0.76	1.31	3.33
3731	107.2	107.0	107.8	98.9
2	107.4	110.2	106.0	96.9
3	109.3	107.2	107.1	95.6
4	107.4	107.3	100.8	99.3
Grp G	107.8	107.9	105.4	97.7
Cv %	0.93	1.42	3.01	1.78
3741	109.1	108.8	109.4	94.8
2	109.1	108.9	107.3	92.1
3	112.4	110.6	110.2	91.8
4	109.3	108.0	106.5	93.1
Grp B	110.0	109.1	108.4	92.9
Cv %	1.45	1.01	1.58	1.46
Sidewall				
3711	102.4	111.7	108.8	94.7
2	103.0	109.8	104.0	96.6
3	102.1	109.1	108.3	94.4
4	105.0	111.4	110.0	96.9
Grp X	103.1	110.5	107.8	95.7
Cv %	1.28	1.13	2.43	1.31
3721	104.1	108.1	108.4	97.3
2	105.1	105.8	111.5	98.5
3	104.8	105.1	109.4	98.1
4	105.8	108.0	109.9	96.4
Grp M	104.9	106.7	109.8	97.6
Cv %	0.70	1.41	1.18	0.96
3731	109.3	111.8	107.3	102.1
2	108.2	110.5	108.9	101.7
3	111.4	109.7	104.5	101.1
4	109.5	110.9	104.3	100.6
Grp G	109.6	110.7	106.3	101.4
Cv %	1.19	0.78	2.13	0.65
3741	107.7	110.5	103.9	95.0
2	107.8	111.8	109.0	96.0
3	111.9	108.8	104.9	94.9
4	108.8	110.1	109.6	94.8
Grp B	109.0	110.3	106.9	95.2
Cv %	1.79	1.11	2.68	0.58

Run/Circ	B1/1	B1/2	B2/1	B2/2	01/1	01/2	02/1	02/2
Date	7/18	7/22	7/23	7/24	7/25	7/26	7/29	7/30
Amb 1.	76.8	82.2	79.5	69.9	74.2	76.9	74.7	74.6
2.	74.3	79.6	76.8	68.7	72.8	76.4	74.8	74.1
Road	78.1	82.8	79.9	70.2	75.7	82.9	77.7	77.3
Tread								
3811	89.7	98.3	93.7	87.0	90.5	96.4	91.0	91.6
2	89.3	100.7	94.0	84.0	89.0	98.2	90.1	91.4
3	90.9	98.7	95.3	82.2	92.7	93.2	91.5	90.3
4	91.4	97.7	96.1	85.4	91.6	95.5	92.7	89.8
Grp X	90.3	98.8	94.8	84.7	91.0	95.8	91.3	90.8
Cv %	1.07	1.33	1.20	2.45	1.72	2.16	1.16	0.94
3821	94.4	96.0	100.2	91.9	90.6	103.1	96.2	96.1
2	90.0	97.4	95.2	88.2	88.9	98.2	90.6	93.5
3	95.6	97.4	101.3	87.4	93.2	100.4	98.0	95.2
4	96.0	95.5	103.1	89.8	96.0	101.1	96.6	96.1
Grp M	94.0	96.6	99.9	89.3	92.2	100.7	95.3	95.2
Cv %	2.91	1.01	3.39	2.18	3.37	1.99	3.42	1.26
3831	93.1	98.6	94.3	90.0	87.9	98.6	96.2	97.6
2	95.3	98.0	92.1	90.9	90.6	96.5	95.6	94.1
3	96.0	96.9	96.1	87.0	92.5	93.5	97.3	94.1
4	98.4	98.6	96.2	92.7	95.2	96.5	96.3	95.5
Grp G	95.7	98.0	94.7	90.2	91.6	96.3	96.4	95.3
Cv %	2.29	0.81	2.03	2.62	3.32	2.19	0.72	1.72
3841	97.5	104.0	95.1	88.0	94.5	101.0	95.2	99.4
2	101.0	103.5	94.9	86.6	95.7	102.2	94.1	97.9
3	99.2	99.0	96.7	87.9	96.3	97.5	95.1	96.4
4	100.4	100.2	98.9	84.9	99.2	96.5	92.4	94.7
Grp B	99.5	101.6	96.4	86.8	96.4	99.3	94.2	97.1
Cv %	1.58	2.41	1.92	1.64	2.07	2.75	1.37	2.09
Sidewall								
3811	89.5	99.6	91.9	84.1	90.5	97.8	88.8	90.1
2	89.8	99.7	92.0	82.2	89.8	97.4	91.0	90.0
3	90.6	98.4	93.6	83.7	94.4	94.1	91.4	87.5
4	91.0	97.1	92.8	83.0	90.6	93.9	91.4	87.7
Grp X	90.2	98.7	92.6	83.3	91.3	95.8	89.5	88.8
Cv %	0.78	1.23	0.87	1.01	2.28	2.15	2.48	1.60
3821	91.9	95.6	93.6	85.6	88.0	100.7	91.7	91.1
2	88.5	94.7	93.9	84.0	86.5	98.2	91.9	92.7
3	93.1	93.2	93.8	86.6	90.9	95.6	94.4	89.7
4	94.6	92.0	94.2	83.8	89.5	98.3	93.9	91.2
Grp M	92.0	93.9	93.9	85.0	88.7	98.2	93.0	91.2
Cv %	2.81	1.70	0.26	1.57	2.12	2.12	1.46	1.35
3831	92.6	97.6	90.2	88.7	87.1	95.9	94.5	95.3
2	93.9	97.6	90.8	87.3	90.9	96.1	95.7	91.8
3	95.3	94.2	93.5	85.8	91.0	92.5	97.5	91.8
4	97.1	94.3	91.5	87.6	92.7	93.9	97.3	93.2
Grp G	94.7	95.9	91.5	87.4	90.4	94.6	96.2	93.0
Cv %	2.07	2.02	1.57	1.37	2.61	1.81	1.50	1.80
3841	96.5	101.4	93.6	85.8	93.0	99.4	92.4	98.0
2	99.3	101.8	93.0	85.8	92.9	98.0	92.2	95.6
3	99.3	96.8	94.9	83.0	94.1	96.2	94.1	94.3
4	99.3	97.8	95.8	82.4	96.0	94.8	92.1	92.1
Grp B	98.6	99.4	94.3	84.3	94.0	97.1	92.7	95.0
Cv %	1.41	2.53	1.33	2.12	1.50	2.09	1.01	2.60

Run/Circ	03/1	03/2	04/1	04/2	05/1	05/2	06/1	06/2
Date	7/31	8/01	8/02	8/05	8/06	8/07	8/08	8/09
Amb 1.	79.9	79.4	80.6	82.7	82.8	83.6	83.1	81.6
2.	78.1	77.4	79.6	81.3	81.7	84.2	81.1	79.9
Road	81.3	81.9	82.2	85.4	85.0	85.6	84.7	84.3
Tread								
3811	92.7	91.8	94.9	100.5	97.0	96.2	98.5	99.1
2	96.6	96.3	94.6	102.1	98.6	98.0	98.5	98.8
3	94.9	92.8	96.5	99.9	97.7	96.7	100.7	97.7
4	97.5	95.4	96.3	98.7	99.5	95.6	100.3	97.9
Grp X	95.4	94.1	95.6	100.3	98.2	96.6	99.5	98.4
Cv %	2.22	2.26	1.00	1.38	1.13	1.06	1.14	0.69
3821	99.0	99.2	98.9	103.2	103.8	101.2	98.4	106.3
2	95.8	97.2	95.4	97.4	100.8	98.6	96.6	101.2
3	100.8	101.1	102.2	98.2	105.4	99.0	103.1	103.2
4	103.2	99.8	101.2	101.4	107.9	102.6	101.5	104.5
Grp M	99.7	99.3	99.4	100.1	104.5	100.3	99.9	103.8
Cv %	3.13	1.60	3.04	2.70	2.82	1.90	2.96	2.08
3831	94.1	99.9	100.7	103.2	99.9	103.0	99.8	99.7
2	94.9	100.6	99.3	100.4	102.8	102.5	98.8	99.8
3	98.2	99.6	102.3	98.8	104.1	98.1	103.5	96.5
4	100.1	97.6	98.5	100.5	108.3	98.9	101.1	97.9
Grp G	96.8	99.4	100.2	100.7	103.8	100.6	100.8	98.5
Cv %	2.92	1.29	1.67	1.81	3.35	2.49	2.04	1.62
3841	94.5	95.8	102.7	105.2	100.6	105.2	101.2	104.8
2	100.2	97.9	103.5	103.7	100.9	102.9	101.7	103.1
3	98.0	95.6	105.9	101.5	100.5	100.1	105.0	99.9
4	100.9	95.0	103.7	102.1	102.8	102.4	103.9	99.2
Grp B	98.4	96.1	104.0	103.1	101.2	102.7	103.0	101.7
Cv %	2.92	1.31	1.31	1.60	1.07	2.03	1.76	2.60
Sidewall								
3811	92.4	93.8	94.3	100.7	96.3	94.8	97.2	97.9
2	95.3	95.7	94.5	102.5	97.4	95.9	99.1	98.8
3	93.5	93.9	96.1	100.1	98.0	94.7	99.1	97.7
4	95.8	94.0	96.8	99.8	98.8	95.1	100.2	96.7
Grp X	94.2	94.4	95.4	100.8	97.6	95.1	98.9	97.8
Cv %	1.65	0.96	1.26	1.18	1.09	0.56	1.27	0.91
3821	94.1	95.7	95.8	99.4	98.7	98.2	96.1	102.5
2	95.2	96.9	95.5	97.4	98.7	97.0	96.7	101.0
3	97.7	94.8	99.1	95.9	98.3	95.8	98.7	98.9
4	99.9	96.3	99.1	97.6	103.3	97.9	99.0	100.7
Grp M	96.7	95.9	97.4	97.5	99.8	97.2	97.6	100.8
Cv %	2.68	0.93	2.05	1.48	2.39	1.10	1.45	1.50
3831	93.1	97.7	98.8	100.7	97.9	99.6	96.5	97.2
2	94.9	98.6	99.8	99.1	102.0	99.0	98.6	98.9
3	95.6	99.1	101.6	97.6	99.3	98.9	100.2	96.8
4	96.7	97.8	99.8	98.9	104.9	97.5	99.7	93.9
Grp G	95.1	98.3	100.0	99.1	101.0	98.8	98.8	96.7
Cv %	1.58	0.66	1.17	1.27	3.06	0.90	1.64	2.16
3841	95.5	97.6	101.1	103.5	99.5	102.4	99.2	101.9
2	97.4	97.0	99.2	101.7	99.6	101.4	101.8	100.7
3	95.3	93.7	102.5	100.7	99.6	99.8	101.1	99.6
4	98.0	93.5	102.3	101.8	100.3	100.0	103.3	98.2
Grp B	96.5	95.5	101.3	101.9	99.8	100.9	101.3	100.1
Cv %	1.43	2.27	1.48	1.15	0.38	1.23	1.67	1.58

Run/Circ	07/1	07/2	08/1	08/2
Date	8/12	8/13	8/14	8/15
Amb 1.	78.7	74.7	81.4	73.7
2.	76.8	74.0	80.4	72.6
Road	80.7	78.6	82.9	75.6
Tread				
3811	94.4	94.4	96.9	91.6
2	92.9	95.6	97.7	90.7
3	94.6	94.1	98.8	89.3
4	93.9	92.7	100.5	90.0
Grp X	94.0	94.2	98.5	90.4
Cv %	0.82	1.28	1.56	1.12
3821	99.2	95.5	102.0	95.8
2	94.9	90.6	99.1	91.8
3	99.6	92.2	105.0	95.2
4	100.6	93.4	106.0	93.8
Grp M	98.6	92.9	103.0	94.1
Cv %	2.56	2.25	3.00	1.89
3831	99.1	94.2	97.2	97.1
2	98.2	94.6	96.3	92.4
3	100.3	91.9	99.5	91.7
4	99.7	93.7	98.9	92.4
Grp G	99.3	93.6	98.0	93.4
Cv %	0.91	1.27	1.51	2.66
3841	101.3	101.8	100.0	95.0
2	98.5	100.5	100.9	94.2
3	104.0	97.8	102.9	91.5
4	103.0	96.8	103.5	88.5
Grp B	101.7	99.2	101.8	92.3
Cv %	2.39	2.34	1.59	3.22
Sidewall				
3811	93.5	95.1	96.4	90.9
2	92.4	95.3	98.4	90.7
3	95.2	92.2	98.3	90.4
4	92.6	90.7	98.8	88.1
Grp X	93.4	93.3	98.0	90.0
Cv %	1.37	2.39	1.09	1.47
3821	94.8	93.2	97.6	93.1
2	93.5	91.7	99.6	92.6
3	97.0	89.9	99.4	90.7
4	94.5	90.8	99.2	89.3
Grp M	95.0	91.4	98.9	91.4
Cv %	1.53	1.50	0.90	1.91
3831	97.5	93.7	94.9	95.1
2	96.2	94.4	95.9	93.1
3	98.4	92.6	97.5	92.7
4	98.6	91.4	97.6	93.7
Grp G	97.7	93.0	96.5	93.6
Cv %	1.13	1.38	1.36	1.17
3841	98.6	101.0	98.1	91.6
2	98.0	98.3	99.7	94.1
3	102.0	94.7	101.8	90.1
4	101.2	95.7	101.1	89.2
Grp B	99.9	97.4	100.2	91.2
Cv %	1.95	2.93	1.60	2.36

Run/Circ	B1/1	B1/2	B2/1	B2/2	O1/1	O1/2	O2/1	O2/2
Date	7/18	7/22	7/23	7/24	7/25	7/26	7/29	7/30
Amb 1.	76.8	79.4	78.7	69.3	72.9	76.2	73.3	72.1
2.	76.1	79.1	77.8	71.2	75.1	76.1	73.9	71.9
Road	80.5	82.3	83.0	73.3	75.1	78.9	77.6	77.4
Tread								
3911	89.8	95.6	92.2	85.0	88.3	93.0	86.3	89.8
2	91.0	99.3	92.4	89.1	88.0	93.1	88.7	89.5
3	92.6	97.4	93.9	85.0	89.7	92.4	87.9	86.1
4	92.1	94.5	94.7	82.1	88.3	88.8	90.3	86.6
Grp X	91.4	96.7	93.3	85.3	88.6	91.8	88.3	88.0
Cv %	1.37	2.18	1.29	3.33	0.83	2.22	1.87	2.22
3921	94.7	96.2	96.6	89.2	88.4	96.1	96.9	93.4
2	94.8	99.9	97.9	91.5	88.2	102.1	93.5	96.0
3	95.3	96.7	97.5	89.6	89.3	103.2	97.6	93.3
4	94.6	94.3	98.0	87.8	92.2	94.9	97.0	93.1
Grp M	94.8	96.8	97.5	89.5	89.5	99.1	96.2	93.9
Cv %	0.37	2.39	0.66	1.72	2.06	4.22	1.96	1.44
3931	98.3	97.7	90.9	92.6	91.0	93.1	96.0	95.2
2	95.2	100.2	90.9	94.6	87.6	93.8	94.3	95.2
3	95.8	98.1	91.2	91.0	89.3	93.8	99.2	93.6
4	95.6	95.6	93.6	91.1	90.0	91.3	97.5	93.1
Grp G	96.2	97.9	91.7	92.3	89.5	93.0	96.8	94.3
Cv %	1.45	1.94	1.43	1.83	1.62	1.31	2.14	1.17
3941	99.9	98.6	89.5	85.4	90.6	94.6	90.0	95.1
2	95.6	98.4	91.5	88.7	92.0	95.0	88.7	96.6
3	96.2	98.1	93.4	87.3	92.3	96.5	89.8	92.6
4	95.7	96.1	93.8	83.0	91.4	90.4	92.8	93.2
Grp B	96.9	97.8	92.0	86.1	91.6	94.1	90.3	94.4
Cv %	2.12	1.19	2.14	2.88	0.84	2.78	1.93	1.95
Sidewall								
3911	90.1	98.6	93.6	86.8	89.0	93.5	88.0	89.7
2	92.5	101.1	93.2	88.9	90.9	96.0	90.6	91.2
3	92.2	98.7	93.1	85.6	91.4	93.0	91.1	87.4
4	92.7	96.8	95.8	84.7	92.3	91.8	93.2	86.5
Grp X	91.9	98.8	93.9	86.5	90.9	93.6	90.7	88.7
Cv %	1.29	1.77	1.32	2.14	1.54	1.89	2.37	2.38
3921	93.2	94.4	93.9	87.1	86.7	94.1	91.8	91.2
2	92.4	97.6	94.2	90.0	87.7	94.7	91.4	92.6
3	93.2	96.2	93.3	88.2	89.2	93.9	92.5	90.5
4	92.9	93.6	95.6	86.5	89.8	92.7	94.2	89.1
Grp M	92.9	95.4	94.3	87.9	88.4	93.9	92.4	90.9
Cv %	0.39	1.91	1.04	1.79	1.57	0.89	1.33	1.56
3931	99.8	97.3	91.3	95.7	92.4	94.0	97.6	96.3
2	95.8	100.0	92.9	94.5	90.2	95.2	97.9	97.7
3	102.6	99.5	92.0	95.7	93.2	92.6	100.2	97.3
4	100.0	97.3	94.7	92.0	92.8	91.7	97.0	93.4
Grp G	99.6	98.5	92.7	94.5	92.2	93.4	98.2	96.2
Cv %	2.83	1.46	1.60	1.84	1.49	1.66	1.42	2.02
3941	96.6	100.2	90.5	86.7	90.3	94.3	89.1	96.2
2	94.9	97.9	93.5	88.0	90.5	96.2	89.7	95.8
3	96.1	98.8	90.9	85.6	92.8	93.4	90.4	93.3
4	96.2	97.2	95.4	83.9	92.1	90.4	93.1	91.9
Grp B	96.0	98.5	92.6	86.1	91.4	93.5	90.6	94.3
Cv %	0.78	1.29	2.49	2.03	1.34	2.60	1.96	2.17

Run/Circ	03/1	03/2	04/1	04/2	05/1	05/2	06/1	06/2
Date	7/31	8/01	8/02	8/05	8/06	8/07	8/08	8/09
Amb 1.	76.8	79.6	80.6	79.8	80.8	82.3	80.2	79.1
2.	76.4	78.7	79.6	79.4	79.0	80.7	79.9	78.4
Road	78.8	82.0	82.2	81.9	81.0	83.6	85.0	80.6
Tread								
3911	91.5	92.8	94.9	95.0	92.8	90.9	97.6	97.1
2	93.6	92.5	94.6	99.4	89.9	93.7	95.0	95.2
3	93.5	91.4	96.5	95.9	91.7	92.9	96.5	93.8
4	93.6	91.9	96.3	94.6	92.1	92.6	97.5	94.3
Grp X	93.0	92.1	95.6	96.2	91.6	92.5	96.6	95.1
Cv %	1.13	0.70	1.00	2.26	1.32	1.25	1.27	1.54
3921	97.7	97.6	98.9	95.8	96.8	96.0	95.6	101.4
2	97.1	99.3	95.4	96.6	95.0	95.8	94.1	102.1
3	100.4	95.5	102.2	94.8	97.8	95.8	95.9	97.3
4	100.8	97.4	101.2	93.7	96.2	96.8	95.0	99.0
Grp M	99.0	97.4	99.4	95.2	96.5	96.1	95.1	99.9
Cv %	1.88	1.60	3.04	1.35	1.20	0.50	0.82	2.19
3931	93.0	97.4	100.7	96.3	96.1	96.1	93.5	97.1
2	95.3	98.5	99.3	94.3	93.8	96.9	90.5	93.8
3	92.9	96.6	102.3	94.0	97.6	94.0	93.7	93.1
4	97.0	96.8	98.5	94.7	98.1	95.7	92.0	94.8
Grp G	94.5	97.3	100.2	94.8	96.4	95.7	92.4	94.7
Cv %	2.06	0.91	1.67	1.09	2.01	1.27	1.60	1.83
3941	94.0	92.3	102.7	99.6	92.4	99.6	99.6	97.7
2	94.9	95.0	103.5	99.7	92.5	98.6	100.4	96.0
3	92.1	92.2	105.9	99.3	92.6	97.7	100.4	94.8
4	97.1	91.3	103.7	97.9	93.0	98.2	99.3	97.4
Grp B	94.5	92.7	104.0	99.1	92.6	98.5	99.9	96.5
Cv %	2.18	1.72	1.31	0.84	0.29	0.83	0.54	1.42
Sidewall								
3911	93.0	95.3	94.3	97.8	91.9	91.4	98.0	97.2
2	94.6	93.6	94.5	100.0	90.6	92.9	95.7	96.2
3	95.7	91.1	96.1	97.0	92.9	91.8	98.6	95.1
4	96.6	93.5	96.8	95.1	92.9	91.7	97.3	95.2
Grp X	95.0	93.4	95.4	97.5	92.1	92.0	97.4	95.9
Cv %	1.64	1.84	1.26	2.08	1.14	0.73	1.27	1.01
3921	93.8	95.0	95.8	92.7	92.1	94.1	94.2	97.3
2	93.7	95.4	95.5	94.0	90.0	92.3	92.1	97.4
3	95.8	93.4	99.1	92.7	94.6	91.6	95.5	94.6
4	96.2	92.6	99.1	91.1	94.2	93.8	94.6	97.4
Grp M	94.9	94.1	97.4	92.6	92.7	92.9	94.1	96.7
Cv %	1.36	1.38	2.05	1.31	2.30	1.30	1.55	1.42
3931	93.6	102.0	98.8	99.8	97.0	97.7	95.2	97.1
2	95.9	99.3	99.8	97.1	93.9	97.2	91.9	96.1
3	94.1	100.0	101.6	96.3	100.2	94.7	97.9	95.8
4	97.6	94.6	99.8	96.0	97.3	95.3	92.3	93.4
Grp G	95.3	99.0	100.0	97.3	97.1	96.2	94.3	95.6
Cv %	1.91	3.16	1.17	1.77	2.67	1.51	2.95	1.65
3941	94.3	94.5	101.1	99.0	91.8	96.9	98.5	97.7
2	94.1	95.4	99.2	98.7	92.1	96.2	96.6	97.1
3	94.5	92.2	102.5	97.8	93.5	96.6	99.0	95.5
4	96.7	92.5	102.3	95.4	92.2	95.1	96.7	93.7
Grp B	94.9	93.7	101.3	97.7	92.4	96.2	97.7	96.0
Cv %	1.27	1.66	1.48	1.66	0.79	0.80	1.23	1.86

Run/Circ	07/1	07/2	08/1	08/2
Date	8/12	8/13	8/14	8/15
Amb 1.	77.2	73.6	79.7	72.8
2.	76.7	73.1	78.1	71.8
Road	79.8	76.8	80.0	75.8
Tread				
3911	90.7	94.0	92.2	94.1
2	91.9	93.0	93.6	92.6
3	90.6	92.4	93.5	90.9
4	92.9	89.9	94.2	91.2
Grp X	91.5	92.3	93.4	92.2
Cv %	1.17	1.86	0.90	1.61
3921	95.0	93.2	97.2	97.3
2	96.1	94.1	99.2	96.4
3	94.9	91.3	98.7	94.7
4	96.4	91.0	101.0	95.2
Grp M	95.6	92.4	99.0	95.9
Cv %	0.81	1.61	1.58	1.24
3931	93.6	93.6	92.2	96.0
2	95.0	94.3	92.4	91.8
3	94.8	92.7	93.6	92.5
4	96.3	91.1	95.0	94.7
Grp G	94.9	93.0	93.3	93.8
Cv %	1.17	1.48	1.41	2.08
3941	97.6	96.9	93.5	94.6
2	97.0	98.4	93.6	95.0
3	98.9	94.2	98.6	92.2
4	99.3	93.7	95.7	89.8
Grp B	98.2	95.8	95.4	92.9
Cv %	1.08	2.31	2.47	2.62
Sidewall				
3911	91.8	93.2	91.9	92.3
2	91.1	92.5	92.9	93.7
3	93.8	88.6	94.4	90.1
4	91.7	89.5	94.0	89.9
Grp X	92.1	91.0	93.3	91.5
Cv %	1.24	2.46	1.20	2.00
3921	93.1	90.3	94.2	92.5
2	91.1	91.0	93.9	94.6
3	92.9	89.1	94.7	90.8
4	90.3	88.8	93.3	92.4
Grp M	91.8	89.8	94.0	92.6
Cv %	1.52	1.14	0.64	1.68
3931	98.0	95.7	92.6	98.7
2	97.1	95.0	93.7	100.4
3	99.8	94.6	93.0	99.8
4	96.6	91.8	92.8	96.4
Grp G	97.9	94.3	93.0	98.8
Cv %	1.46	1.79	0.53	1.79
3941	96.8	95.5	92.4	91.8
2	95.3	95.8	91.8	92.9
3	97.7	91.3	94.9	91.3
4	97.4	93.0	92.5	89.0
Grp B	96.8	93.9	92.9	91.3
Cv %	1.07	2.30	1.49	1.81

APPENDIX E

THE TIRE MEASUREMENT DATA

Tread Groove Measurement

- Summary of Wear
- Summary of Tread Loss

Measurement Data Files

- By Phase
- By Test

Tire Weight Measurements

PHASE I

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   S U M M A R Y   O F   T R E A D W E A R   T E S T   R E S U L T S
                                                                 PAGE 1
SPONSOR - US/DOT NHTSA                          Project  3-7928-  1
        REF NO. NRD-002           TEST 4S0001    Date     2/16/84
CONVOY R101     COURSE MONITORING TIRES (CMT) RS002  / ST0002

Date:     2/20  2/22  2/24  2/29  3/ 5  3/ 8  3/12  3/14  3/16
Miles:     800  1600  2400  3200  4000  4800  5600  6400  7200
Tire      - - - - - - W E A R - - - - - - - - - - - - - - - - - -
11102    304.5 306.0 306.6 305.0 305.8 305.0 306.0 306.4 305.9
                                                Intercept a 305.31
                                                Wear Rate b -0.11

11103    305.5 305.7 305.9 305.2 304.6 304.9 306.0 306.3 305.8
                                                Intercept a 305.34
                                                Wear Rate b -0.05

Average Intercept          305.330
Average Wear                -0.075  Base Wear Rate -0.07  CSAF   1.000

           CANDIDATE GROUPS   CALCULATIONS AT   7200 MILES (INCL. BI)

                    Calc WR  Intcp.  b * CSAF      PM     P=PM/300 RATING
7928/11
               - 1   1.97    360.67    1.97     152409    508.0      500
               - 2   2.11    361.78    2.11     142876    476.3      470
               - 3   2.00    361.38    2.00     150490    501.6      500
               - 4   2.07    362.04    2.07     145747    485.8      480
7928/12
               - 1   2.33    340.36    2.33     120268    400.9      400
               - 2   2.86    339.71    2.86      97901    326.3      320
               - 3   2.29    341.49    2.29     122849    409.5      400
               - 4   2.92    340.81    2.92      96283    320.9      320
7928/13
               - 1   3.16    293.57    3.16      74082    246.9      240
               - 2   3.53    296.53    3.53      67239    224.1      220
               - 3   3.29    291.99    3.29      70706    235.7      230
               - 4   3.18    301.33    3.18      76061    253.5      250
7928/14
               - 1   5.54    307.33    5.54      45093    150.3      150
               - 2   5.39    302.61    5.39      45440    151.5      150
               - 3   5.35    302.02    5.35      45664    152.2      150
               - 4   5.24    305.28    5.24      47227    157.4      150


                                  ---------------------------
                                  Richard N. Pierce, Manager
                                  Tire Evaluation/Research Sectio
                                  Southwest Research Institute
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S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 1
REF NO. NRD-002 TEST 450001 Date 2/16/84
CONVOY R101 COURSE MONITORING TIRES (CMT) RS002 / STD002

Date:	2/20	2/22	2/24	2/29	3/ 8	3/ 8	3/12	3/14	3/16	3/20
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
Tire	- - - - - - W E A R -									
11102	304.5	306.0	306.6	305.0	305.8	305.0	306.0	306.4	305.9	306.1

Intercept a 305.32
Wear Rate b -0.10

11103	305.5	305.7	305.9	305.2	304.6	304.9	306.0	306.3	305.8	305.9

Intercept a 305.34
Wear Rate b -0.06

Average Intercept 305.335
Average Wear -0.075 Base Wear Rate -0.07 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 8000 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/11							
	- 1	2.19	361.11	2.18	138006	460.0	460
	- 2	2.25	362.07	2.25	134164	447.2	440
	- 3	2.15	361.71	2.15	140200	467.3	460
	- 4	2.20	362.31	2.20	137305	457.7	450
7928/12							
	- 1	2.39	340.48	2.39	117319	391.1	390
	- 2	2.93	339.85	2.93	95629	318.8	310
	- 3	2.37	341.66	2.37	118800	396.0	390
	- 4	3.06	341.13	3.06	92019	306.7	300
7928/13							
	- 1	3.23	293.73	3.23	72543	241.8	240
	- 2	3.60	296.67	3.60	65986	220.0	220
	- 3	3.37	292.19	3.37	69103	230.3	230
	- 4	3.16	301.32	3.19	76058	253.5	250
7928/14							
	- 1	5.48	307.20	5.48	45545	151.8	150
	- 2	5.36	302.56	5.36	45681	152.3	150
	- 3	5.28	301.88	5.28	46232	154.1	150
	- 4	5.27	305.36	5.27	46978	156.6	150

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

M E A S U R E M E N T D A T A F I L E

Test 4S0001 Convoy R101 Candidate Group 101X Ref.#NRD-002
7928/11

Date:	2/20	2/22	2/24	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
X1111	361.1	359.2	357.7	355.9	353.8	352.0	351.0	349.8	348.8	343.5	
									Intercept a		361.11
									Wear Rate b		2.18
X1112	361.5	360.3	358.3	357.5	355.0	353.1	350.9	349.7	348.9	344.6	
									Intercept a		362.07
									Wear Rate b		2.25
X1113	360.9	360.0	357.9	356.7	355.6	353.3	352.9	349.5	348.1	344.8	
									Intercept a		361.71
									Wear Rate b		2.15
X1114	361.7	360.2	358.6	357.4	356.2	353.9	351.7	350.8	348.2	345.3	
									Intercept a		362.31
									Wear Rate b		2.20

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
X1111	2/20/84	BI1	800	25.28	7.85	124.4	62
X1111	3/20/84	08	8000	0.00	0.00	0.0	65
X1112	2/20/84	BI1	800	25.30	7.80	118.9	63
X1112	3/20/84	08	8000	0.00	0.00	0.0	66
X1113	2/20/84	BI1	800	25.29	7.80	120.8	64
X1113	3/20/84	08	8000	0.00	0.00	0.0	66
X1114	2/20/84	BI1	800	25.29	7.80	122.8	63
X1114	3/20/84	08	8000	0.00	0.00	0.0	66

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0001 Convoy R101 Candidate Group 101M Ref.#NRD-002
7928/12

Date:	2/20	2/22	2/24	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
TIRE	- - - - - - W E A R -									
M1121	340.6	338.4	337.2	333.9	333.3	330.9	328.4	327.3	326.1	322.7
									Intercept a	340.48
									Wear Rate b	2.39
M1122	341.1	337.2	334.1	331.7	331.4	327.9	326.1	323.7	321.8	318.2
									Intercept a	339.85
									Wear Rate b	2.93
M1123	342.3	340.0	336.8	335.3	334.7	332.2	330.3	328.3	327.6	323.9
									Intercept a	341.66
									Wear Rate b	2.37
M1124	342.0	338.1	335.3	333.2	331.5	329.9	326.6	324.2	322.6	317.7
									Intercept a	341.13
									Wear Rate b	3.06

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
M1121	2/20/84	BI1	800	25.41	8.00	157.6	64
M1121	3/20/84	08	8000	0.00	0.00	0.0	67
M1122	2/20/84	BI1	800	25.43	8.00	159.0	64
M1122	3/20/84	08	8000	0.00	0.00	0.0	70
M1123	2/20/84	BI1	800	25.41	8.00	157.6	64
M1123	3/20/84	08	8000	0.00	0.00	0.0	66
M1124	2/20/84	BI1	800	25.43	8.00	155.6	64
M1124	3/20/84	08	8000	0.00	0.00	0.0	69

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 450001 Convoy R101 Candidate Group 101G Ref.#NRD-002
7928/13

Date:	2/20	2/22	2/24	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
G1131	295.0	290.5	288.0	285.4	282.6	281.5	278.2	276.5	273.4	269.8	
									Intercept a		293.73
									Wear Rate b		3.23
G1132	297.5	292.7	290.6	287.8	285.2	283.1	279.4	277.2	273.5	270.1	
									Intercept a		296.67
									Wear Rate b		3.60
G1133	293.4	288.8	286.1	283.4	281.8	278.9	275.6	273.3	271.9	267.1	
									Intercept a		292.18
									Wear Rate b		3.37
G1134	301.7	298.9	296.4	292.9	291.2	288.2	286.3	283.5	281.3	278.5	
									Intercept a		301.32
									Wear Rate b		3.18

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
G1131	2/20/84	BI1	800	25.26	7.80	157.6	61
G1131	3/20/84	08	8000	0.00	0.00	0.0	68
G1132	2/20/84	BI1	800	25.25	7.80	154.3	61
G1132	3/20/84	08	8000	0.00	0.00	0.0	68
G1133	2/20/84	BI1	800	25.26	7.80	161.8	61
G1133	3/20/84	08	8000	0.00	0.00	0.0	67
G1134	2/20/84	BI1	800	25.26	7.80	152.5	63
G1134	3/20/84	08	8000	0.00	0.00	0.0	68

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0001 Convoy R101 Candidate Group 101B Ref.#NRD-002
7928/14

Date:	2/20	2/22	2/24	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
TIRE	- - - - - - W E A R -									
B1141	309.3	302.3	297.5	292.8	289.5	285.2	281.0	276.6	272.3	268.3
									Intercept a	307.20
									Wear Rate b	5.48
B1142	305.2	297.6	291.5	288.4	286.0	282.0	276.8	272.6	268.2	264.2
									Intercept a	302.56
									Wear Rate b	5.36
B1143	304.4	297.5	291.4	289.1	283.7	280.8	276.6	271.5	269.2	264.5
									Intercept a	301.88
									Wear Rate b	5.28
B1144	306.8	300.5	295.8	292.0	288.2	285.5	280.4	275.5	272.0	267.1
									Intercept a	305.36
									Wear Rate b	5.27

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
B1141	2/20/84	BI1	800	25.32	7.80	137.2	66
B1141	3/20/84	08	8000	0.00	0.00	0.0	72
B1142	2/20/84	BI1	800	25.32	7.80	135.2	67
B1142	3/20/84	08	8000	0.00	0.00	0.0	72
B1143	2/20/84	BI1	800	25.32	7.80	138.8	66
B1143	3/20/84	08	8000	0.00	0.00	0.0	72
B1144	2/20/84	BI1	800	25.32	7.80	137.2	68
B1144	3/20/84	08	8000	0.00	0.00	0.0	74

T R E A D L O S S S U M M A R Y

Group 101X (2) Sponsor Code 7928/11

Test No. 450001 Convoy R101

Inv.No. X1111 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LR	SNG-8	376.5	346.6	346.1	0.0	0.0	0.0	0.0	0.0	0.0	375.0	361.1	
2	800	2/22	26	RR	SNG-8	373.5	344.6	344.8	0.0	0.0	0.0	0.0	0.0	0.0	373.6	359.2	1.9
3	800	2/24	25	LR	SNG-8	370.8	343.8	344.5	0.0	0.0	0.0	0.0	0.0	0.0	371.6	357.7	1.5
4	800	2/29	26	RR	SNG-8	368.5	342.6	343.0	0.0	0.0	0.0	0.0	0.0	0.0	369.3	355.9	1.8
5	800	3/ 2	26	LR	SNG-8	365.5	340.1	341.8	0.0	0.0	0.0	0.0	0.0	0.0	367.8	353.8	2.1
6	800	3/ 8	25	RR	SNG-8	363.6	339.1	339.6	0.0	0.0	0.0	0.0	0.0	0.0	365.5	352.0	1.8
7	800	3/12	26	LR	SNG-8	363.0	336.6	339.0	0.0	0.0	0.0	0.0	0.0	0.0	363.5	351.0	1.0
8	800	3/14	26	RR	SNG-8	362.0	336.6	337.0	0.0	0.0	0.0	0.0	0.0	0.0	363.6	349.8	1.2
9	800	3/16	25	LR	SNG-8	360.1	337.3	337.3	0.0	0.0	0.0	0.0	0.0	0.0	360.5	348.8	1.0
10	800	3/20	25	RR	SNG-8	354.8	331.6	332.0	0.0	0.0	0.0	0.0	0.0	0.0	355.6	343.5	5.3

Comments:

2 52 WET MILES
7 6 WET MILES.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 101X (2) Sponsor Code 7928/11 Test No. 450001 Convoy R101

Inv.No. X1112 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	RR	SNG-8	375.5	346.8	346.1	0.0	0.0	0.0	0.0	0.0	0.0	377.3	361.5	
2	800	2/22	26	LR	SNG-8	371.8	346.8	346.3	0.0	0.0	0.0	0.0	0.0	0.0	376.0	360.3	1.2
3	800	2/24	26	RR	SNG-9	371.8	343.6	344.0	0.0	0.0	0.0	0.0	0.0	0.0	373.5	358.3	2.0
4	800	2/29	26	LR	SNG-8	369.9	344.5	343.8	0.0	0.0	0.0	0.0	0.0	0.0	372.0	357.5	0.8
5	800	3/ 2	25	RR	SNG-8	366.5	340.5	341.1	0.0	0.0	0.0	0.0	0.0	0.0	371.8	355.0	2.5
6	800	3/ 8	25	LR	SNG-9	363.0	340.5	340.0	0.0	0.0	0.0	0.0	0.0	0.0	368.8	353.1	1.9
7	800	3/12	26	RR	SNG-9	360.3	338.5	338.5	0.0	0.0	0.0	0.0	0.0	0.0	366.3	350.9	2.2
8	800	3/14	25	LR	SNG-9	360.6	336.8	336.0	0.0	0.0	0.0	0.0	0.0	0.0	365.3	349.7	1.2
9	800	3/16	26	RR	SNG-8	360.6	336.3	335.1	0.0	0.0	0.0	0.0	0.0	0.0	363.5	348.9	0.8
10	800	3/20	25	LR	SNG-9	356.0	331.5	332.5	0.0	0.0	0.0	0.0	0.0	0.0	358.3	344.6	4.3

Comments:

2 52 WET MILES
7 6 WET MILES.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 101X (2) Sponsor Code 7929/11

Test No. 450001 Convoy R101

Inv.No. X1113 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	24	RF	SNG-8	374.3	347.6	346.6	0.0	0.0	0.0	0.0	0.0	0.0	375.0	360.9	
2	800	2/22	27	LF	SNG-8	372.5	346.0	347.1	0.0	0.0	0.0	0.0	0.0	0.0	374.5	360.0	0.9
3	800	2/24	26	RF	SNG-8	369.3	344.3	346.3	0.0	0.0	0.0	0.0	0.0	0.0	371.5	357.9	2.1
4	800	2/29	25	LF	SNG-8	367.1	344.0	344.8	0.0	0.0	0.0	0.0	0.0	0.0	370.8	356.7	1.2
5	800	3/ 2	26	RF	SNG-8	365.8	342.6	344.3	0.0	0.0	0.0	0.0	0.0	0.0	369.6	355.6	1.1
6	800	3/ 8	26	LF	SNG-8	364.8	340.0	341.3	0.0	0.0	0.0	0.0	0.0	0.0	367.1	353.3	2.3
7	800	3/12	26	RF	SNG-8	362.3	339.6	342.8	0.0	0.0	0.0	0.0	0.0	0.0	366.6	352.9	0.4
8	800	3/14	26	LF	SNG-8	360.1	337.6	337.8	0.0	0.0	0.0	0.0	0.0	0.0	362.5	349.5	3.4
9	800	3/16	25	RF	SNG-8	357.6	336.8	337.6	0.0	0.0	0.0	0.0	0.0	0.0	360.1	348.1	1.4
10	800	3/20	25	LF	SNG-8	354.3	332.8	334.6	0.0	0.0	0.0	0.0	0.0	0.0	357.3	344.8	3.3

Comments:

2 52 WET MILES
7 4 WET MILES.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 101X (2) Sponsor Code 7328/11 Test No. 450001 Convoy 0101

Inv.No. X1114 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/22	24	LF	SNG-8	375.2	347.1	348.3	0.0	0.0	0.0	0.0	0.0	0.0	374.2	361.7	
2	800	2/22	26	RF	SNG-8	373.0	344.8	347.3	0.0	0.0	0.0	0.0	0.0	0.0	375.5	361.2	1.5
3	800	2/24	25	LF	SNG-9	371.0	343.8	346.1	0.0	0.0	0.0	0.0	0.0	0.0	373.3	358.8	1.5
4	800	2/29	25	RF	SNG-8	369.5	344.3	344.5	0.0	0.0	0.0	0.0	0.0	0.0	371.3	357.4	1.2
5	800	3/ 2	26	LF	SNG-8	367.3	343.0	344.0	0.0	0.0	0.0	0.0	0.0	0.0	370.3	356.2	1.2
6	800	3/ 6	26	RF	SNG-8	365.0	339.3	342.3	0.0	0.0	0.0	0.0	0.0	0.0	369.2	353.9	2.3
7	800	3/12	25	LF	SNG-8	361.0	339.1	340.3	0.0	0.0	0.0	0.0	0.0	0.0	366.3	351.7	2.2
8	800	3/14	26	RF	SNG-8	360.0	339.3	340.3	0.0	0.0	0.0	0.0	0.0	0.0	363.6	350.8	2.9
9	800	3/16	25	LF	SNG-9	356.5	338.0	337.8	0.0	0.0	0.0	0.0	0.0	0.0	360.9	348.2	2.6
10	800	3/20	25	RF	SNG-8	353.1	333.6	335.1	0.0	0.0	0.0	0.0	0.0	0.0	358.8	345.3	2.9

Comments:

2 52 WET MILES
7 6 WET MILES.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 101M (3) Soonsor Code 7928/12 Test No. 4S0001 Convoy R101

Inv.No. M1121 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LR	SNG-8	338.3	343.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.6	340.6	
2	800	2/22	26	RR	SNG-8	335.0	342.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.6	338.4	2.2
3	800	2/24	25	LR	SNG-8	334.8	339.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.3	337.2	1.2
4	800	2/29	26	RR	SNG-8	330.1	338.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.5	333.9	3.3
5	800	3/ 2	25	LR	SNG-8	329.6	338.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.6	333.3	0.6
6	800	3/ 8	26	RR	SNG-8	327.3	335.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.3	330.9	2.4
7	800	3/12	25	LR	SNG-8	325.5	334.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.5	328.4	2.5
8	800	3/14	26	RR	SNG-8	324.1	331.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.5	327.3	1.1
9	800	3/16	25	LR	SNG-8	321.1	331.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.6	326.1	1.2
10	800	3/20	25	RR	SNG-8	319.1	328.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.5	322.7	3.4

Comments:
2 52 WET MILES.
7 5 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 131M (2) Sponsor Code 7928/12 Test No. 450C01 Convoy R101

Inv.No. M1122 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	26	RR	SNG-8	338.3	344.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	340.0	341.1	
2	800	2/22	27	LR	SNG-8	336.0	340.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.8	337.2	3.9
3	800	2/24	26	RF	SNG-8	332.5	338.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.8	334.1	3.1
4	800	2/29	26	LR	SNG-8	329.3	336.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.3	331.7	2.4
5	800	3/ 2	25	RF	SNG-9	328.3	337.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.0	331.4	0.3
6	800	3/ 8	26	LR	SNG-8	323.8	324.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.0	327.9	3.5
7	800	3/12	25	RF	SNG-9	323.6	331.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.1	326.1	1.8
8	800	3/14	26	LR	SNG-8	321.5	330.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	319.3	323.7	2.4
9	800	3/16	25	RF	SNG-9	318.0	327.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	319.5	321.8	1.9
10	800	3/20	25	LR	SNG-8	315.3	324.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.6	318.2	3.6

Comments:

2 52 WET MILES.

7 6 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 101M (3) Sponsor Code 7929/12

Test No. 450001 Convoy R101

Inv.No. M1123 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	RF	SNG-8	340.6	343.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	342.5	342.3	
2	800	2/22	27	LF	SNG-8	338.6	341.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.6	340.0	2.3
3	800	2/24	26	RF	SNG-8	323.0	340.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.0	336.8	3.2
4	800	2/29	26	LF	SNG-8	321.3	337.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.1	335.3	1.5
5	800	3/ 2	25	RF	SNG-8	331.1	337.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.3	334.7	0.6
6	800	3/ 8	26	LF	SNG-8	329.1	334.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.8	332.2	2.5
7	800	3/12	26	RF	SNG-8	326.3	333.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.0	330.3	1.9
8	800	3/14	25	LF	SNG-8	325.3	331.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.5	323.3	2.0
9	800	3/16	26	RF	SNG-8	323.0	332.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.6	327.6	0.7
10	800	3/20	25	LF	SNG-8	318.3	327.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.6	323.9	3.7

Comments:

2 52 WET MILES.

7 5 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 101M (3) Sponsor Code 7929/12 Test No. 450001 Convoy R101

Inv.No. M1124 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LF	SNG-8	340.6	345.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	340.0	342.0	
2	800	2/22	26	RF	SNG-8	335.6	340.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.8	338.1	3.9
3	800	2/24	26	LF	SNG-8	332.1	339.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.3	335.3	2.8
4	800	2/25	26	RF	SNG-9	330.8	337.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.6	333.2	2.1
5	800	3/ 2	26	LF	SNG-8	328.1	335.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.0	331.5	1.7
6	800	3/ 3	25	RF	SNG-8	326.8	325.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.1	329.9	1.6
7	800	3/12	25	LF	SNG-8	323.0	330.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.1	326.6	3.3
8	800	3/14	25	RF	SNG-9	320.8	329.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.5	324.2	2.4
9	800	3/16	26	LF	SNG-8	318.8	328.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.1	322.6	1.6
10	800	3/20	25	RF	SNG-8	313.6	323.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.3	317.7	4.9

Comments:

2 52 WET MILES.

7 6 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1010 (4) Sponsor Code 7928/13 Test No. 450001 Convoy R101

Inv.No. G1131 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	500	2/20	24	LR	SNG-8	298.1	289.3	291.5	0.0	0.0	0.0	0.0	0.0	0.0	301.1	295.0	
2	800	2/22	26	RR	SNG-8	293.8	285.3	296.1	0.0	0.0	0.0	0.0	0.0	0.0	296.8	290.5	4.5
3	800	2/24	25	LR	SNG-8	290.5	281.8	284.6	0.0	0.0	0.0	0.0	0.0	0.0	294.6	288.0	2.5
4	800	2/29	26	RR	SNG-8	288.6	279.3	292.1	0.0	0.0	0.0	0.0	0.0	0.0	291.3	285.4	2.6
5	800	3/ 2	25	LR	SNG-8	286.3	276.0	282.0	0.0	0.0	0.0	0.0	0.0	0.0	286.1	282.6	2.8
6	800	3/ 8	25	RR	SNG-8	285.8	274.8	278.8	0.0	0.0	0.0	0.0	0.0	0.0	286.6	281.5	1.1
7	800	3/12	26	LR	SNG-8	280.6	271.5	276.3	0.0	0.0	0.0	0.0	0.0	0.0	284.1	278.2	3.3
8	800	3/14	25	RR	SNG-8	280.0	269.0	275.3	0.0	0.0	0.0	0.0	0.0	0.0	281.5	276.5	1.7
9	800	3/16	26	LR	SNG-8	276.8	267.5	271.3	0.0	0.0	0.0	0.0	0.0	0.0	278.0	273.4	3.1
10	800	3/20	25	RR	SNG-8	272.8	263.8	269.2	0.0	0.0	0.0	0.0	0.0	0.0	273.3	269.8	3.6

Comments:
2 52 WET MILES.
7 6 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1015 (4) Sponsor Code 7928/13 Test No. 450001 Convoy R101

Inv.No. G1132 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	RR	SNG-8	305.3	288.5	289.3	0.0	0.0	0.0	0.0	0.0	0.0	307.0	297.5	
2	800	2/22	26	LR	SNG-8	301.3	282.8	287.6	0.0	0.0	0.0	0.0	0.0	0.0	298.8	292.7	4.8
3	800	2/24	26	RR	SNG-8	300.8	283.1	282.9	0.0	0.0	0.0	0.0	0.0	0.0	295.6	290.6	2.1
4	800	2/28	25	LR	SNG-8	295.8	278.0	281.8	0.0	0.0	0.0	0.0	0.0	0.0	295.6	287.8	2.8
5	800	3/ 2	26	RR	SNG-8	292.5	275.1	282.1	0.0	0.0	0.0	0.0	0.0	0.0	291.0	285.2	2.6
6	800	3/ 9	25	LR	SNG-8	292.6	273.6	278.3	0.0	0.0	0.0	0.0	0.0	0.0	287.6	283.1	2.1
7	800	3/12	25	RR	SNG-8	289.3	269.0	273.5	0.0	0.0	0.0	0.0	0.0	0.0	285.8	279.4	3.7
8	800	3/14	26	LR	SNG-9	287.8	267.9	271.3	0.0	0.0	0.0	0.0	0.0	0.0	281.6	277.2	2.2
9	800	3/16	25	RR	SNG-8	283.8	262.0	269.8	0.0	0.0	0.0	0.0	0.0	0.0	278.1	273.5	3.7
10	800	3/20	25	LR	SNG-8	279.3	261.1	266.5	0.0	0.0	0.0	0.0	0.0	0.0	273.5	270.1	3.4

Comments:

2 52 WET MILES.

7 6 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1010 (4) Sponsor Code 7928/12 Test No. [illegible] Convoy [illegible]

Inv.No. 51123 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	24	RF	SNG-8	298.1	288.3	289.1	0.0	0.0	0.0	0.0	0.0	0.0	300.5	293.4	
2	800	2/22	26	LF	SNG-8	294.6	281.0	283.0	0.0	0.0	0.0	0.0	0.0	0.0	296.4	288.8	4.6
3	800	2/24	25	RF	SNG-8	292.5	278.1	281.6	0.0	0.0	0.0	0.0	0.0	0.0	292.1	286.1	2.7
4	800	2/29	26	LF	SNG-8	290.0	276.0	278.5	0.0	0.0	0.0	0.0	0.0	0.0	288.8	283.-	2.7
5	800	3/ 2	25	RF	SNG-8	287.3	272.5	272.8	0.0	0.0	0.0	0.0	0.0	0.0	286.3	281.8	1.6
6	800	3/ 8	25	LF	SNG-8	285.8	270.6	274.5	0.0	0.0	0.0	0.0	0.0	0.0	284.4	278.9	2.9
7	800	3/12	25	RF	SNG-8	282.6	266.3	272.5	0.0	0.0	0.0	0.0	0.0	0.0	281.0	275.6	3.3
8	800	3/14	26	LF	SNG-8	281.1	263.8	270.5	0.0	0.0	0.0	0.0	0.0	0.0	277.8	273.3	3.3
9	800	3/16	26	RF	SNG-8	280.0	261.6	269.5	0.0	0.0	0.0	0.0	0.0	0.0	274.5	271.9	1.-
10	800	3/20	25	LF	SNG-8	274.1	258.3	264.6	0.0	0.0	0.0	0.0	0.0	0.0	270.3	267.1	4.8

Comments:
2 52 WET MILES.
7 6 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1016 (4) Sponsor Code 7928/13 Test No. 4S0001 Convoy R101

Inv.No. G1134 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LF	SNG-8	308.8	292.6	293.8	0.0	0.0	0.0	0.0	0.0	0.0	311.3	301.7	
2	800	2/22	26	RF	SNG-8	307.1	289.3	291.0	0.0	0.0	0.0	0.0	0.0	0.0	308.0	295.9	2.8
3	800	2/24	26	LF	SNG-8	306.0	286.1	288.3	0.0	0.0	0.0	0.0	0.0	0.0	305.1	296.4	2.5
4	800	2/26	25	RF	SNG-8	300.8	281.1	287.5	0.0	0.0	0.0	0.0	0.0	0.0	302.1	292.9	3.5
5	800	3/ 2	26	LF	SNG-8	300.1	281.0	284.5	0.0	0.0	0.0	0.0	0.0	0.0	299.0	291.2	1.7
6	800	3/ 8	25	RF	SNG-8	297.1	277.1	281.1	0.0	0.0	0.0	0.0	0.0	0.0	297.3	289.2	3.0
7	800	3/12	25	LF	SNG-8	295.8	273.5	280.8	0.0	0.0	0.0	0.0	0.0	0.0	294.8	286.3	1.9
8	800	3/14	25	RF	SNG-8	293.8	271.6	279.0	0.0	0.0	0.0	0.0	0.0	0.0	289.6	283.5	2.8
9	800	3/16	26	LF	SNG-8	291.0	269.3	276.6	0.0	0.0	0.0	0.0	0.0	0.0	288.3	281.3	2.2
10	800	3/20	25	RF	SNG-8	269.0	267.1	273.3	0.0	0.0	0.0	0.0	0.0	0.0	284.3	279.5	2.9

Comments:
2 52 WET MILES.
7 6 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1018 (5) Sponsor Code 7928/14

Test No. 450001 Convoy R101

Inv.No. 81141 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	24	LR	SNG-8	306.3	313.5	311.5	0.0	0.0	0.0	0.0	0.0	0.0	306.0	309.3	
2	800	2/22	27	RR	SNG-8	297.8	306.0	306.3	0.0	0.0	0.0	0.0	0.0	0.0	293.8	302.3	7.0
3	800	2/24	26	LR	SNG-8	293.5	301.8	302.0	0.0	0.0	0.0	0.0	0.0	0.0	292.5	297.5	4.8
4	800	2/29	25	RF	SNG-8	287.0	293.5	296.5	0.0	0.0	0.0	0.0	0.0	0.0	289.3	292.8	4.7
5	800	3/ 2	26	LR	SNG-8	284.3	294.8	292.6	0.0	0.0	0.0	0.0	0.0	0.0	286.0	289.5	3.3
6	800	3/ 8	25	RR	SNG-8	279.5	291.3	290.1	0.0	0.0	0.0	0.0	0.0	0.0	279.3	285.2	4.3
7	800	3/12	26	LR	SNG-8	274.5	287.3	285.3	0.0	0.0	0.0	0.0	0.0	0.0	276.5	281.0	4.2
8	800	3/14	25	RF	SNG-8	271.0	282.1	283.5	0.0	0.0	0.0	0.0	0.0	0.0	269.6	276.6	4.4
9	800	3/16	26	LR	SNG-8	266.0	278.3	279.5	0.0	0.0	0.0	0.0	0.0	0.0	265.5	272.3	4.3
10	800	3/20	25	RR	SNG-8	262.0	275.0	274.5	0.0	0.0	0.0	0.0	0.0	0.0	261.5	268.3	4.0

Comments:

2 52 WET MILES.

7 6 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1013 (5) Sponsor Code 7928/14 Test No. 4S0001 Convoy R101

Inv.No. 51142 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	RR	SNG-8	299.5	307.8	310.0	0.0	0.0	0.0	0.0	0.0	0.0	303.3	305.2	
2	800	2/22	26	LR	SNG-8	293.0	302.6	302.0	0.0	0.0	0.0	0.0	0.0	0.0	292.6	297.6	7.6
3	800	2/24	26	RR	SNG-8	284.1	297.1	298.1	0.0	0.0	0.0	0.0	0.0	0.0	286.5	291.5	6.1
4	800	2/29	25	LR	SNG-8	290.6	294.3	295.1	0.0	0.0	0.0	0.0	0.0	0.0	283.3	289.4	3.1
5	800	3/ 2	26	RR	SNG-8	278.6	290.5	293.1	0.0	0.0	0.0	0.0	0.0	0.0	281.6	286.0	2.4
6	800	3/ 9	25	LR	SNG-8	274.0	287.5	289.6	0.0	0.0	0.0	0.0	0.0	0.0	276.6	282.0	4.0
7	800	3/12	25	RR	SNG-8	267.0	283.5	285.1	0.0	0.0	0.0	0.0	0.0	0.0	271.6	276.8	5.2
8	800	3/14	26	LR	SNG-8	263.1	279.8	281.6	0.0	0.0	0.0	0.0	0.0	0.0	265.6	272.6	4.2
9	800	3/16	25	RR	SNG-8	256.6	275.6	277.1	0.0	0.0	0.0	0.0	0.0	0.0	263.3	268.2	4.4
10	800	3/20	25	LR	SNG-8	252.3	272.1	274.3	0.0	0.0	0.0	0.0	0.0	0.0	258.0	264.2	4.0

Comments:
2 52 WET MILES.
7 6 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1018 (5) Sponsor Code 7928/14 Test No. 450001 Convoy R101

Inv.No. 81143 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	RF	SNG-8	300.8	308.6	306.6	0.0	0.0	0.0	0.0	0.0	0.0	301.5	304.4	
2	800	2/22	26	LF	SNG-8	294.3	303.1	300.5	0.0	0.0	0.0	0.0	0.0	0.0	292.1	297.5	6.9
3	800	2/24	25	RF	SNG-8	286.3	299.0	294.1	0.0	0.0	0.0	0.0	0.0	0.0	286.1	291.4	6.1
4	800	2/29	25	LF	SNG-8	292.5	295.5	293.8	0.0	0.0	0.0	0.0	0.0	0.0	284.5	289.1	2.3
5	800	3/ 2	26	RF	SNG-8	276.0	292.2	288.5	0.0	0.0	0.0	0.0	0.0	0.0	277.3	283.7	5.4
6	800	3/ 5	25	LF	SNG-8	274.1	289.0	284.6	0.0	0.0	0.0	0.0	0.0	0.0	275.1	280.8	2.9
7	800	3/12	25	RF	SNG-8	269.5	284.3	282.6	0.0	0.0	0.0	0.0	0.0	0.0	269.8	276.6	4.2
8	800	3/14	26	LF	SNG-8	264.0	280.5	278.1	0.0	0.0	0.0	0.0	0.0	0.0	263.3	271.5	5.1
9	800	3/16	25	RF	SNG-8	261.5	279.0	276.0	0.0	0.0	0.0	0.0	0.0	0.0	260.3	269.2	2.3
10	800	3/20	25	LF	SNG-8	257.0	273.5	272.0	0.0	0.0	0.0	0.0	0.0	0.0	255.8	264.5	4.7

Comments:

2 52 WET MILES

7 6 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 101E (5) Sponsor Code 7928/14 Test No. 4S0001 Convoy R101

Inv.No. B1144 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	500	2/20	24	LF	SNG-8	304.1	310.0	310.5	0.0	0.0	0.0	0.0	0.0	0.0	302.6	306.3	
2	800	2/22	26	RF	SNG-8	296.3	305.0	305.6	0.0	0.0	0.0	0.0	0.0	0.0	294.3	300.5	6.3
3	800	2/24	25	LF	SNG-8	289.5	301.6	302.0	0.0	0.0	0.0	0.0	0.0	0.0	290.1	295.9	4.7
4	500	2/29	25	RF	SNG-8	295.1	297.1	298.1	0.0	0.0	0.0	0.0	0.0	0.0	287.3	292.0	3.8
5	800	3/ 2	25	LF	SNG-8	280.3	292.1	294.3	0.0	0.0	0.0	0.0	0.0	0.0	284.8	289.2	3.8
6	800	3/ 8	25	RF	SNG-8	277.8	291.0	292.8	0.0	0.0	0.0	0.0	0.0	0.0	280.5	285.5	2.7
7	800	3/12	25	LF	SNG-8	273.0	287.8	287.5	0.0	0.0	0.0	0.0	0.0	0.0	273.3	280.4	5.1
8	800	3/14	25	RF	SNG-8	267.8	280.5	282.5	0.0	0.0	0.0	0.0	0.0	0.0	270.0	275.5	4.9
9	800	3/16	26	LF	SNG-8	263.6	276.8	279.1	0.0	0.0	0.0	0.0	0.0	0.0	266.3	272.0	3.5
10	800	3/20	25	RF	SNG-8	256.5	273.6	277.0	0.0	0.0	0.0	0.0	0.0	0.0	261.3	267.1	4.9

Comments:
2 52 WET MILES
7 6 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project B-7928- 1
REF NO. NRC-008 TEST 450002 Date 2/16/84
CONVOY R201 COURSE MONITORING TIRES (CMT) RS002 / STC002

Date:	2/20	2/22	2/25	2/29	3/ 2	3/ 8	3/12	3/14	3/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
Tire	- - - - - - W E A R - - - - - - - - - - - - - - - - - -									
11102	304.2	304.9	305.9	304.6	305.7	305.7	305.0	306.9	305.8	Intercept a 304.63 Wear Rate b -0.23
11103	305.2	304.5	305.9	304.5	305.4	305.8	305.8	304.5	305.5	Intercept a 304.90 Wear Rate b -0.16

Average Intercept 304.770
Average Wear -0.190 Base Wear Rate -0.19 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 7200 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PW	bPW/300	RATING
7928/21							
	- 1	2.28	361.57	2.28	132190	440.6	440
	- 2	2.16	361.04	2.16	139244	464.1	460
	- 3	2.12	361.16	2.12	141923	473.1	470
	- 4	2.12	362.01	2.12	142314	474.4	470
7928/22							
	- 1	2.11	341.72	2.11	133369	444.6	440
	- 2	3.06	339.57	3.06	91509	305.0	300
	- 3	2.19	339.36	2.19	127446	424.8	420
	- 4	2.94	340.63	2.94	95572	318.6	310
7928/23							
	- 1	3.19	297.69	3.19	74913	249.7	240
	- 2	3.20	295.44	3.20	73730	245.8	240
	- 3	3.28	288.68	3.28	69910	233.0	230
	- 4	3.24	290.44	3.24	71306	237.7	230
7928/24							
	- 1	5.39	304.02	5.39	45785	152.6	150
	- 2	5.61	301.87	5.61	43558	145.2	140
	- 3	5.36	301.72	5.36	45526	151.8	150
	- 4	5.58	304.94	5.58	44339	147.8	140

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA
REF NO. NRD-002 TEST 450002 Project 8-7928- 1
Date 2/16/84
CONVOY R201 COURSE MONITORING TIRES (CMT) RS002 / ST0002

Date:	2/20	2/22	2/25	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
Tire	- - - - - - W E A R -									
11102	304.2	304.9	305.9	304.6	305.7	305.7	305.0	306.9	305.8	305.3
									Intercept a	304.79
									Wear Rate b	-0.16
11103	305.2	304.5	305.9	304.5	305.4	305.9	305.6	306.5	305.5	306.0
									Intercept a	304.92
									Wear Rate b	-0.15

Average Intercept 304.860
Average wear -0.150 Base Wear Rate -0.15 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 8000 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/21							
	- 1	2.34	361.70	2.34	128877	429.6	420
	- 2	2.25	361.23	2.25	133791	446.0	440
	- 3	2.21	361.37	2.21	136262	454.2	450
	- 4	2.20	362.19	2.20	137250	457.5	450
7928/22							
	- 1	2.25	342.03	2.25	125258	417.5	410
	- 2	3.01	339.47	3.01	92933	309.9	300
	- 3	2.22	339.45	2.22	125777	419.3	410
	- 4	2.90	340.54	2.90	96348	322.8	320
7928/23							
	- 1	3.24	297.33	3.24	73587	245.3	240
	- 2	3.09	295.21	3.09	76272	254.2	250
	- 3	3.15	288.42	3.15	72679	242.3	240
	- 4	3.19	290.35	3.19	72383	241.3	240
7928/24							
	- 1	5.30	303.35	5.30	46432	154.8	150
	- 2	5.43	301.49	5.43	44905	149.7	140
	- 3	5.27	301.53	5.27	46252	154.2	150
	- 4	5.46	304.70	5.46	45251	150.8	150

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0002 Convoy R201 Candidate Group 201X Ref.#NRD-002
7928/21

Date:	2/20	2/22	2/25	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
X1211	362.6	358.4	357.3	355.7	354.8	353.6	351.0	349.6	345.5	344.3	
									Intercept a		361.70
									Wear Rate b		2.34
X1212	362.0	358.2	357.0	355.3	354.4	353.7	350.7	350.2	345.6	344.2	
									Intercept a		361.23
									Wear Rate b		2.25
X1213	361.6	358.5	357.1	355.8	355.0	354.6	351.3	349.8	345.9	344.6	
									Intercept a		361.37
									Wear Rate b		2.21
X1214	363.2	359.2	357.6	357.1	355.5	354.5	351.5	350.5	348.0	345.5	
									Intercept a		362.19
									Wear Rate b		2.20

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
X1211	2/20/84	BI1	800	25.29	7.80	122.0	62
X1211	3/20/84	08	8000	0.00	0.00	0.0	67
X1212	2/20/84	BI1	800	25.29	7.80	120.8	63
X1212	3/20/84	08	8000	0.00	0.00	0.0	66
X1213	2/20/84	BI1	800	25.29	7.80	122.4	63
X1213	3/20/84	08	8000	0.00	0.00	0.0	67
X1214	2/20/84	BI1	800	25.29	7.80	122.8	63
X1214	3/20/84	08	8000	0.00	0.00	0.0	66

M E A S U R E M E N T D A T A F I L E

Test 4S0002 Convoy R201 Candidate Group 201M Ref.#NRD-002
7928/22

Date:	2/20	2/22	2/25	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - -		W E A R	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - -		
M1221	343.4	338.7	337.2	336.6	334.9	334.6	331.2	330.3	327.9	324.4	
									Intercept a		342.03
									Wear Rate b		2.25
M1222	340.8	336.4	333.2	331.9	329.8	329.4	325.2	321.5	319.9	318.3	
									Intercept a		339.47
									Wear Rate b		3.01
M1223	341.4	336.6	335.1	332.6	332.3	331.5	329.3	327.0	325.5	323.1	
									Intercept a		339.45
									Wear Rate b		2.22
M1224	341.6	338.7	334.6	333.1	330.6	329.3	326.6	324.6	321.8	320.1	
									Intercept a		340.54
									Wear Rate b		2.90

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
M1221	2/20/84	BI1	800	25.41	8.00	157.0	65
M1221	3/20/84	08	8000	0.00	0.00	0.0	67
M1222	2/20/84	BI1	800	25.43	8.00	160.4	64
M1222	3/20/84	08	8000	0.00	0.00	0.0	71
M1223	2/20/84	BI1	800	25.41	8.00	161.0	64
M1223	3/20/84	08	8000	0.00	0.00	0.0	67
M1224	2/20/84	BI1	800	25.42	8.00	157.6	64
M1224	3/20/84	08	8000	0.00	0.00	0.0	70

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0002 Convoy R201 Candidate Group 201G Ref.#NRD-002
7928/23

Date:	2/20	2/22	2/25	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
G1231	300.6	294.3	291.0	287.8	286.7	286.3	283.5	280.6	276.9	273.8	
									Intercept a		297.83
									Wear Rate b		3.24
G1232	298.3	291.8	289.3	285.9	284.1	284.0	279.9	278.6	275.0	274.0	
									Intercept a		295.21
									Wear Rate b		3.09
G1233	290.5	285.0	283.0	279.7	277.6	276.6	272.6	271.6	267.2	266.9	
									Intercept a		288.42
									Wear Rate b		3.15
G1234	292.8	286.7	283.8	281.1	279.9	279.4	275.0	273.3	268.8	267.8	
									Intercept a		290.35
									Wear Rate b		3.19

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	CD	CSW	CR%	Hardness
G1231	2/20/84	BI1	800	25.26	7.80	153.7	61
G1231	3/20/84	08	8000	0.00	0.00	0.0	68
G1232	2/20/84	BI1	800	25.26	7.80	155.6	62
G1232	3/20/84	08	8000	0.00	0.00	0.0	69
G1233	2/20/84	BI1	800	25.25	7.80	155.6	63
G1233	3/20/84	08	8000	0.00	0.00	0.0	69
G1234	2/20/84	BI1	800	25.28	7.80	148.8	61
G1234	3/20/84	08	8000	0.00	0.00	0.0	67

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San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0002 Convoy R201 Candidate Group 201B Ref.#NRD-002
7928/24

Date:	2/20	2/22	2/25	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
TIRE	- - - - - - W E A R -									
B1241	307.7	298.3	294.5	289.4	285.7	283.2	278.7	274.9	269.9	266.5
									Intercept a	303.85
									Wear Rate b	5.30
B1242	305.0	296.0	292.4	286.4	283.4	279.2	274.3	272.5	266.2	264.1
									Intercept a	301.49
									Wear Rate b	5.43
B1243	303.8	296.9	292.9	286.8	284.1	280.7	275.5	272.5	268.0	264.5
									Intercept a	301.53
									Wear Rate b	5.27
B1244	307.5	299.5	295.4	289.5	286.5	283.4	277.9	274.9	269.3	266.5
									Intercept a	304.70
									Wear Rate b	5.46

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
B1241	2/20/84	BI1	800	25.32	7.85	131.0	67
B1241	3/20/84	08	8000	0.00	0.00	0.0	73
B1242	2/20/84	BI1	800	25.31	7.85	137.2	65
B1242	3/20/84	08	8000	0.00	0.00	0.0	72
B1243	2/20/84	BI1	800	25.32	7.85	136.2	65
B1243	3/20/84	08	8000	0.00	0.00	0.0	72
B1244	2/20/84	BI1	800	25.31	7.80	131.0	67
B1244	3/20/84	08	8000	0.00	0.00	0.0	74

T R E A D L O S S S U M M A R Y

Group 201X (2) Sponsor Code 7928/21 Test No. 4S0002 Convoy R201

Inv.No. X1211 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LR	SNG-8	377.5	346.3	349.1	0.0	0.0	0.0	0.0	0.0	0.0	377.5	362.6	
2	800	2/22	26	RR	SNG-8	371.8	344.3	344.1	0.0	0.0	0.0	0.0	0.0	0.0	373.1	358.4	4.2
3	800	2/25	26	LR	SNG-8	370.6	342.0	343.8	0.0	0.0	0.0	0.0	0.0	0.0	372.5	357.3	1.1
4	800	2/29	25	RR	SNG-8	367.6	341.3	343.1	0.0	0.0	0.0	0.0	0.0	0.0	370.6	355.7	1.6
5	800	3/ 2	26	LR	SNG-8	366.5	340.5	342.6	0.0	0.0	0.0	0.0	0.0	0.0	369.5	354.8	0.9
6	800	3/ 8	25	RR	SNG-8	365.1	338.8	342.3	0.0	0.0	0.0	0.0	0.0	0.0	368.0	353.6	1.2
7	800	3/12	26	LR	SNG-8	361.3	338.0	339.6	0.0	0.0	0.0	0.0	0.0	0.0	364.8	351.0	2.6
8	800	3/14	25	RR	SNG-8	361.6	337.3	337.5	0.0	0.0	0.0	0.0	0.0	0.0	361.8	349.6	1.4
9	800	3/16	26	LR	SNG-8	356.1	332.5	334.1	0.0	0.0	0.0	0.0	0.0	0.0	359.3	345.5	4.1
10	800	3/20	25	RR	SNG-8	355.0	329.8	334.8	0.0	0.0	0.0	0.0	0.0	0.0	357.5	344.3	1.2

Comments:

2 7 WET MILES.
5 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
5 CENTER RIB,ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

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T R E A D L O S S S U M M A R Y

Group 201X (2) Sponsor Code 7928/21 Test No. 450002 Convoy R201

Inv.No. X1212 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	RR	SNG-8	375.8	346.5	348.8	0.0	0.0	0.0	0.0	0.0	0.0	377.0	362.0	
2	800	2/22	26	LR	SNG-8	371.5	343.3	344.5	0.0	0.0	0.0	0.0	0.0	0.0	373.3	358.2	3.8
3	800	2/25	26	RR	SNG-8	369.8	340.8	344.8	0.0	0.0	0.0	0.0	0.0	0.0	372.6	357.0	1.2
4	800	2/29	25	LR	SNG-8	367.5	341.6	342.6	0.0	0.0	0.0	0.0	0.0	0.0	369.5	355.3	1.7
5	800	3/ 2	26	RR	SNG-8	365.5	340.3	341.3	0.0	0.0	0.0	0.0	0.0	0.0	370.5	354.4	0.9
6	800	3/ 8	25	LR	SNG-8	364.6	340.1	341.1	0.0	0.0	0.0	0.0	0.0	0.0	368.6	353.7	0.7
7	800	3/12	26	RR	SNG-8	361.8	336.1	336.6	0.0	0.0	0.0	0.0	0.0	0.0	366.0	350.7	3.0
8	800	3/14	25	LR	SNG-8	361.8	337.0	337.0	0.0	0.0	0.0	0.0	0.0	0.0	365.0	350.2	0.5
9	800	3/16	26	RR	SNG-8	357.8	332.5	332.0	0.0	0.0	0.0	0.0	0.0	0.0	360.1	345.6	4.6
10	800	3/20	25	LR	SNG-8	356.3	330.9	331.5	0.0	0.0	0.0	0.0	0.0	0.0	358.0	344.2	1.4

Comments:

2 7 WET MILES.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB,ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 201X (2) Sponsor Code 7928/21 Test No. 450002 Convoy R201

Inv.No. X1213 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	26	RF	SNG-8	375.6	347.8	347.1	0.0	0.0	0.0	0.0	0.0	0.0	375.6	361.6	
2	800	2/22	26	LF	SNG-8	372.1	344.5	344.8	0.0	0.0	0.0	0.0	0.0	0.0	372.6	358.5	3.1
3	800	2/25	26	RF	SNG-8	370.1	341.3	343.5	0.0	0.0	0.0	0.0	0.0	0.0	373.3	357.1	1.4
4	800	2/29	25	LF	SNG-8	367.3	342.1	341.5	0.0	0.0	0.0	0.0	0.0	0.0	372.1	355.8	1.3
5	800	3/ 2	26	RF	SNG-8	365.6	340.1	342.0	0.0	0.0	0.0	0.0	0.0	0.0	371.3	355.0	0.8
6	800	3/ 8	25	LF	SNG-8	365.0	341.6	342.1	0.0	0.0	0.0	0.0	0.0	0.0	369.5	354.6	0.4
7	800	3/12	25	RF	SNG-8	361.8	339.0	338.6	0.0	0.0	0.0	0.0	0.0	0.0	365.8	351.3	3.3
8	800	3/14	26	LR	SNG-8	360.0	337.6	336.0	0.0	0.0	0.0	0.0	0.0	0.0	363.6	349.8	1.5
9	800	3/16	25	RF	SNG-8	356.1	334.8	333.0	0.0	0.0	0.0	0.0	0.0	0.0	359.5	345.9	3.9
10	800	3/20	25	LF	SNG-8	354.1	332.3	332.8	0.0	0.0	0.0	0.0	0.0	0.0	359.1	344.6	1.3

Comments:

2 7 WET MILES.
5 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
5 CENTER RIB,ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 231X (2) Sponsor Code 7928/21 Test No. 4S0002 Convoy R201

Inv.No. X1214 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LF	SNG-8	377.6	350.0	348.5	0.0	0.0	0.0	0.0	0.0	0.0	376.6	363.2	
2	800	2/22	26	RF	SNG-8	372.6	345.6	345.3	0.0	0.0	0.0	0.0	0.0	0.0	373.0	359.2	4.0
3	800	2/25	26	LF	SNG-8	369.8	343.8	344.8	0.0	0.0	0.0	0.0	0.0	0.0	371.8	357.6	1.6
4	800	2/29	25	RF	SNG-8	368.3	344.0	344.5	0.0	0.0	0.0	0.0	0.0	0.0	371.5	357.1	0.5
5	800	3/ 2	26	LF	SNG-8	367.1	344.1	342.6	0.0	0.0	0.0	0.0	0.0	0.0	368.1	355.5	1.6
6	800	3/ 6	25	RF	SNG-8	365.3	342.5	342.5	0.0	0.0	0.0	0.0	0.0	0.0	367.8	354.5	1.0
7	800	3/12	26	LF	SNG-8	363.5	339.6	339.0	0.0	0.0	0.0	0.0	0.0	0.0	363.6	351.5	3.0
8	800	3/14	25	RF	SNG-8	362.0	338.6	338.3	0.0	0.0	0.0	0.0	0.0	0.0	363.1	350.5	1.0
9	800	3/16	26	LF	SNG-8	360.0	336.0	336.6	0.0	0.0	0.0	0.0	0.0	0.0	359.3	348.0	2.5
10	800	3/20	25	RF	SNG-8	357.8	333.8	333.5	0.0	0.0	0.0	0.0	0.0	0.0	356.8	345.5	2.5

Comments:

2 7 WET MILES.
5 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB,ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 201M (3) Sponsor Code 7928/22 Test No. 4S0002 Convoy R201

Inv.No. M1221 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	25	LR	SNG-8	342.5	346.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	341.6	343.4	
2	800	2/22	25	RR	SNG-8	336.6	342.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.5	338.7	4.7
3	800	2/25	26	LR	SNG-8	334.5	339.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.5	337.2	1.5
4	800	2/29	25	RR	SNG-8	333.8	340.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.6	336.6	0.6
5	800	3/ 2	26	LR	SNG-8	332.1	339.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.5	334.9	1.7
6	800	3/ 8	25	RR	SNG-8	331.6	338.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	333.6	334.6	0.3
7	800	3/12	25	LR	SNG-8	329.0	334.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.5	331.2	3.4
8	800	3/14	25	RR	SNG-8	327.6	334.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.3	330.3	0.9
9	800	3/16	26	LR	SNG-8	325.1	332.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.0	327.9	2.4
10	800	3/20	25	RR	SNG-8	321.3	329.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.6	324.4	3.5

Comments:
2 7 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 201M (3) Sponsor Code 7929/22

Test No. 450002 Convoy R201

Inv.No. M1222 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	26	RR	SNG-8	339.6	344.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.8	340.8	
2	800	2/22	26	LR	SNG-8	335.6	339.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.6	336.4	4.4
3	800	2/25	26	RR	SNG-8	332.5	336.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.8	333.2	3.2
4	800	2/29	25	LR	SNG-8	330.8	335.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.1	331.9	1.3
5	800	3/ 2	26	RR	SNG-8	329.0	333.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.1	329.8	2.1
6	800	3/ 8	25	LR	SNG-8	327.0	334.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.1	329.4	0.4
7	800	3/12	26	RR	SNG-8	323.8	326.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.0	325.2	4.2
8	800	3/14	25	LR	SNG-8	322.6	328.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.6	321.5	3.7
9	800	3/16	26	RR	SNG-8	318.1	325.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.0	319.9	1.6
10	800	3/20	25	LR	SNG-8	315.3	324.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.6	318.3	1.6

Comments:
2 7 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 201M (3) Sponsor Code 7928/22 Test No. 4S0002 Convoy R201

Inv.No. M1223 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	26	RF	SNG-8	340.1	345.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.8	341.4	
2	800	2/22	26	LF	SNG-8	332.1	340.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.0	336.6	4.8
3	800	2/25	26	RF	SNG-8	331.5	339.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.3	335.1	1.5
4	800	2/29	25	LF	SNG-8	328.3	337.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.6	332.6	2.5
5	800	3/ 2	26	RF	SNG-8	327.6	336.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.3	332.3	0.3
6	800	3/ 6	25	LF	SNG-8	329.0	336.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.8	331.5	0.8
7	800	3/12	26	RF	SNG-8	324.8	335.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.1	329.3	2.2
8	800	3/14	25	LF	SNG-8	322.5	332.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.8	327.0	2.3
9	800	3/16	26	RF	SNG-8	320.5	331.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.1	325.5	1.5
10	800	3/20	25	LF	SNG-8	318.0	328.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.5	323.1	2.4

Comments:
2 7 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 201M (3) Sponsor Code 7928/22

Test No. 450002 Convoy R201

Inv.No. M1224 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	24	LF	SNG-8	341.1	344.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.5	341.6	
2	800	2/22	26	RF	SNG-8	337.8	341.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.0	338.7	2.9
3	800	2/25	26	LF	SNG-8	332.6	337.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	333.5	334.6	4.1
4	800	2/29	25	RF	SNG-8	330.8	337.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3	333.1	1.5
5	800	3/ 2	26	LF	SNG-8	329.8	334.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.6	330.6	2.5
6	800	3/ 8	25	RF	SNG-8	327.8	331.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.1	329.3	1.3
7	800	3/12	26	LF	SNG-8	324.6	331.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.0	326.6	2.7
8	800	3/14	25	RF	SNG-8	322.8	329.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.0	324.6	2.0
9	800	3/16	26	LF	SNG-8	321.0	326.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.1	321.8	2.8
10	800	3/20	25	RF	SNG-8	317.3	326.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.3	320.1	1.7

Comments:

2 7 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 201G (4) Sponsor Code 7928/23 Test No. 4S0002 Convoy R201

Inv.No. G1231 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	24	LR	SNG-8	308.0	292.5	292.5	0.0	0.0	0.0	0.0	0.0	0.0	309.5	300.6	
2	800	2/22	25	RR	SNG-8	303.0	284.5	289.0	0.0	0.0	0.0	0.0	0.0	0.0	301.6	294.3	6.3
3	800	2/25	26	LR	SNG-8	301.0	283.1	283.0	0.0	0.0	0.0	0.0	0.0	0.0	296.8	291.0	3.3
4	800	2/29	25	RR	SNG-8	296.1	276.8	280.8	0.0	0.0	0.0	0.0	0.0	0.0	295.1	287.8	3.2
5	800	3/ 2	25	LR	SNG-8	294.8	277.8	280.5	0.0	0.0	0.0	0.0	0.0	0.0	293.6	286.7	1.1
6	800	3/ 8	25	RR	SNG-8	294.8	276.8	281.3	0.0	0.0	0.0	0.0	0.0	0.0	292.0	286.3	0.4
7	800	3/12	25	LR	SNG-8	293.6	273.5	278.5	0.0	0.0	0.0	0.0	0.0	0.0	288.1	283.5	2.8
8	800	3/14	25	RR	SNG-8	291.3	269.3	275.3	0.0	0.0	0.0	0.0	0.0	0.0	286.3	280.6	2.9
9	800	3/16	25	LR	SNG-8	288.1	267.6	271.3	0.0	0.0	0.0	0.0	0.0	0.0	280.5	276.9	3.7
10	800	3/20	25	RR	SNG-8	283.6	264.0	269.1	0.0	0.0	0.0	0.0	0.0	0.0	278.1	273.8	3.1

Comments:
2 7 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2016 (4) Sponsor Code 7928/23 Test No. 450002 Convoy R201

Inv.No. G1232 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	RR	SNG-8	303.6	288.6	291.6	0.0	0.0	0.0	0.0	0.0	0.0	309.0	298.3	
2	800	2/22	25	LR	SNG-8	297.1	281.6	287.0	0.0	0.0	0.0	0.0	0.0	0.0	301.5	291.6	6.5
3	800	2/25	26	RR	SNG-8	292.1	280.1	285.3	0.0	0.0	0.0	0.0	0.0	0.0	299.3	289.3	2.5
4	800	2/29	25	LR	SNG-8	291.6	276.0	281.0	0.0	0.0	0.0	0.0	0.0	0.0	295.0	285.9	3.4
5	800	3/ 2	26	RR	SNG-8	288.6	273.3	280.3	0.0	0.0	0.0	0.0	0.0	0.0	294.0	284.1	1.8
6	800	3/ 8	26	LR	SNG-8	290.6	275.1	277.5	0.0	0.0	0.0	0.0	0.0	0.0	292.5	284.0	0.1
7	800	3/12	25	RR	SNG-8	266.1	270.0	276.0	0.0	0.0	0.0	0.0	0.0	0.0	287.3	279.9	4.1
8	800	3/14	25	LR	SNG-8	285.3	266.8	275.5	0.0	0.0	0.0	0.0	0.0	0.0	286.8	278.6	1.3
9	800	3/16	26	RR	SNG-8	282.0	264.3	271.6	0.0	0.0	0.0	0.0	0.0	0.0	282.1	275.0	3.6
10	800	3/20	25	LR	SNG-8	280.6	263.5	270.1	0.0	0.0	0.0	0.0	0.0	0.0	281.8	274.0	1.0

Comments:
1 YC
2 7 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 201G (4) Sponsor Code 7928/23 Test No. 450002 Convoy R201

Inv.No. G1233 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	RF	SNG-8	294.0	287.0	289.0	0.0	0.0	0.0	0.0	0.0	0.0	292.1	290.5	
2	800	2/22	26	LF	SNG-8	290.5	280.8	283.3	0.0	0.0	0.0	0.0	0.0	0.0	285.1	285.0	5.5
3	800	2/25	26	RF	SNG-8	287.5	279.1	282.0	0.0	0.0	0.0	0.0	0.0	0.0	283.3	283.0	2.0
4	800	2/29	25	LF	SNG-8	285.6	276.1	277.3	0.0	0.0	0.0	0.0	0.0	0.0	279.5	279.7	3.3
5	800	3/ 2	26	RF	SNG-8	282.5	274.0	276.8	0.0	0.0	0.0	0.0	0.0	0.0	277.0	277.6	2.1
6	800	3/ 8	25	LF	SNG-8	282.1	272.8	276.5	0.0	0.0	0.0	0.0	0.0	0.0	274.8	276.6	1.0
7	800	3/12	26	RF	SNG-9	279.3	268.8	270.5	0.0	0.0	0.0	0.0	0.0	0.0	271.8	272.6	4.0
8	800	3/14	25	LF	SNG-8	277.1	265.5	271.5	0.0	0.0	0.0	0.0	0.0	0.0	272.1	271.6	1.0
9	800	3/16	26	RF	SNG-8	271.8	263.0	267.6	0.0	0.0	0.0	0.0	0.0	0.0	266.3	267.2	4.4
10	800	3/20	25	LF	SNG-8	273.0	260.8	265.0	0.0	0.0	0.0	0.0	0.0	0.0	268.6	266.9	0.3

Comments:
2 7 WET MILES.
4 Y
8 Y
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2016 (4) Sensor Code 7923/23

Test No. 450002 Convoy R201

Inv.No. G1234 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	LF	SNG-8	295.0	286.6	288.3	0.0	0.0	0.0	0.0	0.0	0.0	301.0	292.8	
2	800	2/22	26	RF	SNG-8	290.5	280.0	282.8	0.0	0.0	0.0	0.0	0.0	0.0	293.3	286.7	6.1
3	800	2/25	25	LF	SNG-8	287.8	277.0	280.1	0.0	0.0	0.0	0.0	0.0	0.0	290.3	283.8	2.9
4	800	2/29	25	RF	SNG-8	284.6	276.0	277.0	0.0	0.0	0.0	0.0	0.0	0.0	286.8	281.1	2.7
5	800	3/ 2	26	LF	SNG-8	284.5	274.5	275.6	0.0	0.0	0.0	0.0	0.0	0.0	284.8	279.9	1.2
6	800	3/ 8	25	RF	SNG-8	284.8	272.5	276.1	0.0	0.0	0.0	0.0	0.0	0.0	284.1	279.4	0.5
7	800	3/12	25	LF	SNG-8	279.0	270.3	271.5	0.0	0.0	0.0	0.0	0.0	0.0	279.1	275.0	4.4
8	800	3/14	25	RF	SNG-8	278.3	266.3	269.8	0.0	0.0	0.0	0.0	0.0	0.0	278.8	273.3	1.7
9	800	3/16	26	LF	SNG-8	274.8	263.0	265.5	0.0	0.0	0.0	0.0	0.0	0.0	271.8	268.8	4.5
10	800	3/20	25	RF	SNG-8	273.0	261.0	265.1	0.0	0.0	0.0	0.0	0.0	0.0	271.8	267.8	1.0

Comments:

2 7 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 201c (5) Sponsor Code 7929/24 Test No. 450002 Convoy R201

Inv.No. 61241 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LR	SNG-8	302.3	312.5	309.1	0.0	0.0	0.0	0.0	0.0	0.0	306.8	307.7	
2	800	2/22	26	RR	SNG-8	291.6	304.3	301.0	0.0	0.0	0.0	0.0	0.0	0.0	296.3	298.3	9.4
3	800	2/25	26	LR	SNG-8	289.1	300.5	298.5	0.0	0.0	0.0	0.0	0.0	0.0	289.6	294.5	3.8
4	800	2/29	25	RR	SNG-8	281.5	293.8	293.1	0.0	0.0	0.0	0.0	0.0	0.0	285.1	288.4	6.1
5	800	3/ 2	26	LR	SNG-8	277.8	292.0	291.1	0.0	0.0	0.0	0.0	0.0	0.0	281.6	285.7	2.7
6	800	3/ 6	25	RR	SNG-8	275.8	288.5	288.1	0.0	0.0	0.0	0.0	0.0	0.0	280.1	283.2	2.5
7	800	3/12	25	LR	SNG-8	270.6	284.8	284.1	0.0	0.0	0.0	0.0	0.0	0.0	275.1	278.7	4.5
8	800	3/14	25	RR	SNG-8	267.0	280.8	281.3	0.0	0.0	0.0	0.0	0.0	0.0	270.5	274.9	3.8
9	800	3/16	26	LR	SNG-8	261.8	276.6	276.3	0.0	0.0	0.0	0.0	0.0	0.0	264.8	269.9	5.0
10	800	3/20	25	RR	SNG-8	257.6	273.0	272.8	0.0	0.0	0.0	0.0	0.0	0.0	262.5	266.5	3.4

Comments:
2 7 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 201b (5) Sponsor Code 7928/24 Test No. 450002 Convoy R201

Inv.No. B1242 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	26	RR	SNG-8	300.0	309.5	309.8	0.0	0.0	0.0	0.0	0.0	0.0	300.8	305.0	
2	800	2/22	25	LR	SNG-8	292.3	301.1	301.1	0.0	0.0	0.0	0.0	0.0	0.0	289.1	296.0	9.0
3	800	2/25	26	RR	SNG-8	288.1	296.3	298.2	0.0	0.0	0.0	0.0	0.0	0.0	284.8	292.4	3.6
4	800	2/29	25	LR	SNG-8	281.6	292.3	293.1	0.0	0.0	0.0	0.0	0.0	0.0	276.3	286.4	6.0
5	800	3/ 2	26	RR	SNG-8	280.0	289.8	290.6	0.0	0.0	0.0	0.0	0.0	0.0	273.0	283.4	3.0
6	800	3/ 6	25	LR	SNG-8	273.5	286.6	286.2	0.0	0.0	0.0	0.0	0.0	0.0	270.1	279.2	4.2
7	800	3/12	25	RR	SNG-8	269.0	282.0	281.8	0.0	0.0	0.0	0.0	0.0	0.0	264.1	274.3	4.9
8	800	3/14	25	LR	SNG-8	266.8	281.1	280.5	0.0	0.0	0.0	0.0	0.0	0.0	261.6	272.5	1.8
9	800	3/16	26	RR	SNG-8	260.5	276.1	275.0	0.0	0.0	0.0	0.0	0.0	0.0	253.1	266.2	6.3
10	800	3/20	25	LR	SNG-8	258.1	274.3	271.8	0.0	0.0	0.0	0.0	0.0	0.0	252.0	264.1	2.1

Comments:
2 7 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2018 (5) Sponsor Code 7928/24 Test No. 4S0002 Convoy R201

Inv.No. B1243 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	RF	SNG-8	298.5	308.6	309.0	0.0	0.0	0.0	0.0	0.0	0.0	299.1	303.6	
2	800	2/22	26	LF	SNG-8	290.6	301.8	300.8	0.0	0.0	0.0	0.0	0.0	0.0	294.1	296.9	6.9
3	800	2/25	26	RF	SNG-8	285.6	297.0	297.6	0.0	0.0	0.0	0.0	0.0	0.0	291.1	292.9	4.0
4	800	2/29	25	LF	SNG-8	279.0	292.5	292.3	0.0	0.0	0.0	0.0	0.0	0.0	284.1	286.8	6.1
5	800	3/ 2	26	RF	SNG-8	275.8	286.8	290.5	0.0	0.0	0.0	0.0	0.0	0.0	281.1	284.1	2.7
6	800	3/ 5	25	LF	SNG-8	270.8	287.8	287.1	0.0	0.0	0.0	0.0	0.0	0.0	276.8	280.7	3.4
7	800	3/12	25	RF	SNG-8	265.0	281.6	283.0	0.0	0.0	0.0	0.0	0.0	0.0	272.5	275.5	5.2
8	800	3/14	25	LF	SNG-8	261.5	280.1	281.0	0.0	0.0	0.0	0.0	0.0	0.0	267.3	272.5	3.0
9	800	3/16	26	RF	SNG-8	256.3	276.3	277.0	0.0	0.0	0.0	0.0	0.0	0.0	262.5	269.0	4.5
10	800	3/20	25	LF	SNG-8	254.1	272.3	272.3	0.0	0.0	0.0	0.0	0.0	0.0	259.1	264.5	3.5

Comments:
2 7 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2018 (5) Sponsor Code 7928/24

Test No. 450002 Convoy R201

Inv.No. 81244 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	LF	SNG-8	305.6	312.0	309.0	0.0	0.0	0.0	0.0	0.0	0.0	303.5	307.5	
2	800	2/22	26	RF	SNG-8	295.1	302.5	302.5	0.0	0.0	0.0	0.0	0.0	0.0	297.6	299.5	8.0
3	800	2/25	26	LF	SNG-8	290.3	299.5	299.3	0.0	0.0	0.0	0.0	0.0	0.0	292.3	295.4	4.1
4	800	2/25	25	RF	SNG-8	281.6	292.8	294.8	0.0	0.0	0.0	0.0	0.0	0.0	286.5	289.5	5.9
5	800	3/ 3	26	LF	SNG-8	278.6	289.6	293.3	0.0	0.0	0.0	0.0	0.0	0.0	284.3	286.5	3.0
6	800	3/ 8	25	RF	SNG-8	274.5	287.3	289.0	0.0	0.0	0.0	0.0	0.0	0.0	282.8	283.4	3.1
7	800	3/12	25	LF	SNG-8	267.0	282.1	285.1	0.0	0.0	0.0	0.0	0.0	0.0	277.3	277.9	5.5
8	800	3/14	25	RF	SNG-8	265.5	279.5	282.3	0.0	0.0	0.0	0.0	0.0	0.0	272.1	274.9	3.0
9	800	3/16	26	LF	SNG-8	259.0	273.6	276.0	0.0	0.0	0.0	0.0	0.0	0.0	268.6	269.3	5.6
10	800	3/20	25	RF	SNG-8	253.8	271.8	274.5	0.0	0.0	0.0	0.0	0.0	0.0	266.0	266.5	2.8

Comments:
2 7 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

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   SUMMARY  OF  TREADWEAR  TEST  RESULTS
                                                                PAGE 1
SPONSOR - US/DOT NHTSA                            Project  8-7928-  1
        REF NO. NPO-002            TEST 4S0003     Date      2/16/84
CONVOY R102      COURSE MONITORING TIRES (CMT) RS002  / ST0002

Date:     2/20  2/22  2/27  2/29  3/ 2  3/ 8  3/12  3/14  3/16
Miles:     800  1600  2400  3200  4000  4800  5600  6400  7200
Tire      - - - - - - W E A R - - - - - - - - - - - - - - - - - -
11102    304.5 304.3 305.6 304.3 305.7 305.2 305.9 306.6 305.5
                                                  Intercept a 304.46
                                                  Wear Rate b -0.24

11103    305.8 305.7 306.0 305.3 306.0 305.7 306.3 306.3 306.5
                                                  Intercept a 305.59
                                                  Wear Rate b -0.11

Average Intercept          305.025
Average Wear               -0.170  Base Wear Rate -0.17  CSAF   1.000

               CANDIDATE GROUPS   CALCULATIONS AT   7200 MILES (INCL. BI)

                      Calc WP  Intcp.  b * CSAF     PM     p=PM/300 RATING
7929/31
                 - 1   2.16    363.69   2.16      140471   468.2     460
                 - 2   2.27    363.61   2.27      133668   445.6     440
                 - 3   2.27    362.90   2.27      133355   444.5     440
                 - 4   2.34    363.03   2.34      129445   431.5     430
7928/32
                 - 1   2.64    340.77   2.64      106395   354.7     350
                 - 2   2.64    340.91   2.64      106448   354.8     350
                 - 3   2.37    341.31   2.37      118652   395.5     390
                 - 4   3.18    341.31   3.18       88633   295.4     290
7928/33
                 - 1   4.01    298.72   4.01       59832   199.4     190
                 - 2   3.57    298.14   3.57       66946   223.2     220
                 - 3   3.45    300.69   3.45       69986   233.3     230
                 - 4   3.24    293.38   3.24       72214   240.7     240
7928/34
                 - 1   5.47    305.12   5.47       45246   150.8     150
                 - 2   5.39    304.01   5.39       45700   152.3     150
                 - 3   5.38    303.21   5.38       45635   152.1     150
                 - 4   4.74    303.34   4.74       51821   172.7     170


                                        ---------------------------
                                        Richard N. Pierce, Manager
                                        Tire Evaluation/Research Section
                                        Southwest Research Institute
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S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 1
REF NO. NRD-002 TEST 4S0003 Date 2/16/84
CONVOY R102 COURSE MONITORING TIRES (CMT) RS002 / STD002

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
Tire	- - - - - - - W E A R -										
11102	304.5	304.3	305.6	304.3	305.7	305.2	305.8	306.6	305.5	306.0	
									Intercept a		304.51
									Wear Rate b		-0.22
11103	305.8	305.7	306.0	305.3	306.0	305.7	306.3	306.3	306.5	306.4	
									Intercept a		305.59
									Wear Rate b		-0.11

Average Intercept 305.055
Average Wear -0.160 Base Wear Rate -0.16 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 8000 MILES (INCL. SI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING	
7928/31								
	- 1	2.23	363.85	2.23	136159	453.9	450	
	- 2	2.32	363.74	2.32	130860	436.2	430	
	- 3	2.39	363.15	2.39	126804	422.7	420	
	- 4	2.50	363.39	2.50	121356	404.5	400	
7928/32								
	- 1	2.72	340.94	2.72	103351	344.5	340	
	- 2	2.64	340.91	2.64	106448	354.8	350	(1)
	- 3	2.40	341.37	2.40	117204	390.7	390	
	- 4	3.13	341.22	3.13	90008	300.0	300	
7928/33		(1)	REMOVED - 2 AFTER INSPECTION 9 WITH 6,925 TEST MILES.					
	- 1	3.87	298.42	3.87	61890	206.3	200	
	- 2	3.54	299.09	3.54	67492	225.0	220	
	- 3	3.37	300.54	3.37	71533	238.6	230	
	- 4	3.17	293.23	3.17	73743	245.8	240	
7928/34								
	- 1	5.33	304.83	5.33	46359	154.5	150	
	- 2	5.19	303.59	5.19	47349	157.8	150	
	- 3	5.17	302.75	5.17	47367	157.9	150	
	- 4	4.70	303.76	4.70	52238	174.1	170	

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

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San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0003 Convoy R102 Candidate Group 102X Ref.#NRD-002
7928/31

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
X1311	363.0	361.6	360.4	358.6	358.3	356.2	352.3	350.8	349.8	347.1	
									Intercept a		363.85
									Wear Rate b		2.23
X1312	363.9	360.9	359.9	357.7	357.7	355.9	351.9	350.3	349.1	346.5	
									Intercept a		363.74
									Wear Rate b		2.32
X1313	362.7	360.2	358.3	357.9	357.7	355.9	351.1	348.8	348.1	344.8	
									Intercept a		363.15
									Wear Rate b		2.39
X1314	362.5	360.3	359.8	357.6	356.6	354.4	352.0	349.8	347.0	343.8	
									Intercept a		363.39
									Wear Rate b		2.50

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
X1311	2/20/84	BI1	800	25.29	7.80	125.7	62
X1311	3/20/84	08	8000	0.00	0.00	0.0	63
X1312	2/20/84	BI1	800	25.29	7.80	121.2	62
X1312	3/20/84	08	8000	0.00	0.00	0.0	63
X1313	2/20/84	BI1	800	25.29	7.80	117.8	62
X1313	3/20/84	08	8000	0.00	0.00	0.0	64
X1314	2/20/84	BI1	800	25.29	7.80	122.0	62
X1314	3/20/84	08	8000	0.00	0.00	0.0	65

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Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0003 Convoy R102 Candidate Group 102M Ref.#NRD-002
7928/32

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
M1321	340.4	338.0	336.5	335.4	332.7	331.2	327.8	324.9	323.9	320.6	
									Intercept a		340.94
									Wear Rate b		2.72
M1322	341.2	338.6	336.1	334.8	333.1	330.5	328.3	324.6	324.4	0.0	
									Intercept a		384.64
									Wear Rate b		23.93
M1323	341.1	338.9	337.3	335.7	335.0	332.2	329.8	328.3	325.2	323.8	
									Intercept a		341.37
									Wear Rate b		2.40
M1324	341.9	338.5	335.7	332.7	332.2	329.5	325.4	323.3	321.1	319.1	
									Intercept a		341.22
									Wear Rate b		3.13

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
M1321	2/20/84	BI1 1	800	25.42	8.00	155.6	63
M1321	3/20/84	08	8000	0.00	0.00	0.0	65
M1322	2/20/84	BI1 1	800	25.43	8.00	158.3	62
M1322	3/20/84	08	7450		0.00		0
M1323	2/20/84	BI1 1	800	25.41	8.00	17.3	62
M1323	3/20/84	08	8000	0.00	0.00	0.0	64
M1324	2/20/84	BI1 1	800	25.42	8.00	160.4	62
M1324	3/20/84	08	8000	0.00	0.00	0.0	67

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Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0003 Convoy R102 Candidate Group 102G Ref.#NRD-002
7928/33

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
G1331	300.8	294.7	290.9	288.6	285.7	282.9	279.0	277.5	272.9	272.0	
									Intercept a		298.42
									Wear Rate b		3.87
G1332	300.0	294.5	290.2	288.9	287.8	284.3	281.5	279.0	274.3	272.8	
									Intercept a		298.09
									Wear Rate b		3.54
G1333	301.9	297.6	293.2	291.7	291.2	287.5	284.4	281.1	278.3	277.0	
									Intercept a		300.54
									Wear Rate b		3.37
G1334	294.4	290.4	287.0	285.2	283.7	281.0	277.5	275.5	272.5	271.1	
									Intercept a		293.23
									Wear Rate b		3.17

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
G1331	2/20/84	BI1	800	25.28	7.80	145.9	62
G1331	3/20/84	08	8000	0.00	0.00	0.0	66
G1332	2/20/84	BI1	800	25.26	7.85	161.0	62
G1332	3/20/84	08	8000	0.00	0.00	0.0	66
G1333	2/20/84	BI1	800	25.26	7.75	152.5	60
G1333	3/20/84	08	8000	0.00	0.00	0.0	63
G1334	2/20/84	BI1	800	25.27	7.80	160.4	61
G1334	3/20/84	08	8000	0.00	0.00	0.0	66

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Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 4S0003 Convoy R102 Candidate Group 102B Ref.#NRD-002
7928/34

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
B1341	307.7	300.1	293.5	291.5	288.3	283.8	278.5	274.8	270.5	267.8	
									Intercept a		304.83
									Wear Rate b		5.33
B1342	306.7	298.6	293.5	289.3	288.2	282.6	278.0	274.2	269.7	268.1	
									Intercept a		303.59
									Wear Rate b		5.19
B1343	305.6	298.9	292.3	289.3	286.2	281.1	277.3	273.9	269.3	267.6	
									Intercept a		302.75
									Wear Rate b		5.17
B1344	305.4	299.8	294.1	292.5	288.0	286.0	281.4	278.3	272.6	270.3	
									Intercept a		303.76
									Wear Rate b		4.70

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
B1341	2/20/84	BI1	800	25.31	7.90	135.7	65
B1341	3/20/84	08	8000	0.00	0.00	0.0	70
B1342	2/20/84	BI1	800	25.32	7.80	125.3	64
B1342	3/20/84	08	8000	0.00	0.00	0.0	69
B1343	2/20/84	BI1	800	25.32	7.80	133.3	63
B1343	3/20/84	08	8000	0.00	0.00	0.0	68
B1344	2/20/84	BI1	800	25.32	7.80	133.8	64
B1344	3/20/84	08	8000	0.00	0.00	0.0	68

T R E A D L O S S S U M M A R Y

Group 102A (2) Sponsor Code 7928/21 Test No. 450003 Convoy R102

Inv.No. X1311 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	25	LR	SNG-8	377.8	349.6	350.1	0.0	0.0	0.0	0.0	0.0	0.0	375.1	363.0	
2	800	2/22	25	RR	SNG-8	373.0	347.6	349.3	0.0	0.0	0.0	0.0	0.0	0.0	376.3	361.6	1.4
3	800	2/27	26	LR	SNG-8	372.5	346.6	347.5	0.0	0.0	0.0	0.0	0.0	0.0	375.0	360.4	1.2
4	800	2/29	25	RR	SNG-8	369.6	346.0	346.0	0.0	0.0	0.0	0.0	0.0	0.0	372.8	358.6	1.8
5	800	3/ 2	26	LR	SNG-8	368.8	344.1	346.8	0.0	0.0	0.0	0.0	0.0	0.0	373.3	358.3	0.3
6	800	3/ 8	25	RR	SNG-8	366.6	343.8	343.5	0.0	0.0	0.0	0.0	0.0	0.0	370.6	356.2	2.1
7	800	3/12	26	LR	SNG-8	361.3	340.3	341.1	0.0	0.0	0.0	0.0	0.0	0.0	366.5	352.3	3.9
8	800	3/14	25	RR	SNG-8	359.8	338.8	340.1	0.0	0.0	0.0	0.0	0.0	0.0	364.3	350.8	1.5
9	800	3/18	26	LR	SNG-8	359.0	336.5	340.0	0.0	0.0	0.0	0.0	0.0	0.0	363.6	349.8	1.0
10	800	3/20	25	RR	SNG-8	355.8	335.5	336.8	0.0	0.0	0.0	0.0	0.0	0.0	360.3	347.1	2.7

Comments:

1 35 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
7 SLIGHT CIRCUMFERENTIAL FLOW CRACK, CENTE
7 RIB, ITC.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

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T R E A D L O S S S U M M A R Y

Group 102X (2) Sponsor Code 7928/31 Test No. 450003 Convoy R102

Inv.No. X1312 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	24	RR	SNG-8	376.8	350.8	351.0	0.0	0.0	0.0	0.0	0.0	0.0	376.8	363.9	
2	800	2/22	26	LR	SNG-8	371.8	347.5	348.5	0.0	0.0	0.0	0.0	0.0	0.0	375.6	360.9	3.0
3	800	2/27	26	RR	SNG-8	371.1	347.3	348.3	0.0	0.0	0.0	0.0	0.0	0.0	372.6	359.9	1.0
4	800	2/29	25	LR	SNG-8	368.6	344.1	346.0	0.0	0.0	0.0	0.0	0.0	0.0	372.0	357.7	2.2
5	800	3/ 2	26	RR	SNG-8	367.5	347.0	345.8	0.0	0.0	0.0	0.0	0.0	0.0	370.5	357.7	0.0
6	800	3/ 8	25	LR	SNG-8	367.0	343.8	344.3	0.0	0.0	0.0	0.0	0.0	0.0	368.5	355.9	1.8
7	800	3/12	26	RR	SNG-8	360.5	340.8	341.0	0.0	0.0	0.0	0.0	0.0	0.0	365.1	351.9	4.0
8	800	3/14	25	LR	SNG-9	359.3	340.0	339.8	0.0	0.0	0.0	0.0	0.0	0.0	362.0	350.3	1.6
9	800	3/16	26	RR	SNG-8	356.8	339.3	340.0	0.0	0.0	0.0	0.0	0.0	0.0	360.3	349.1	1.2
10	800	3/20	25	LR	SNG-8	356.1	336.1	336.5	0.0	0.0	0.0	0.0	0.0	0.0	357.0	346.5	2.6

Comments:

1 95 WET MILES.
3 61 WET MILES.
7 231 WET MILES.
7 SLIGHT CIRCUMFERENTIAL FLOW CRACK, CENTE
7 RIB, ITC.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

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T R E A D L O S S S U M M A R Y

Group 102x (2) Sponsor Code 7928/31 Test No. 4S0003 Convoy R102

Inv.No. X1313 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	GSS	Avg	Loss
1	600	2/20	24	RF	SNG-8	378.0	348.6	345.0	0.0	0.0	0.0	0.0	0.0	0.0	379.1	362.7	
2	800	2/22	26	LF	SNG-8	375.3	343.8	345.9	0.0	0.0	0.0	0.0	0.0	0.0	375.8	360.2	2.5
3	800	2/27	25	RF	SNG-8	372.1	342.8	343.5	0.0	0.0	0.0	0.0	0.0	0.0	374.6	358.3	1.9
4	800	2/29	25	LF	SNG-8	371.0	343.5	343.5	0.0	0.0	0.0	0.0	0.0	0.0	372.6	357.9	0.4
5	800	3/ 2	26	RF	SNG-8	371.8	343.8	343.1	0.0	0.0	0.0	0.0	0.0	0.0	371.8	357.7	0.2
6	800	3/ 8	25	LF	SNG-8	370.1	341.9	341.5	0.0	0.0	0.0	0.0	0.0	0.0	370.1	355.9	1.8
7	800	3/12	26	RF	SNG-8	364.0	337.8	336.5	0.0	0.0	0.0	0.0	0.0	0.0	366.0	351.1	4.8
8	800	3/14	25	LF	SNG-8	362.0	335.0	335.0	0.0	0.0	0.0	0.0	0.0	0.0	363.1	348.8	2.3
9	800	3/16	26	RF	SNG-8	360.6	334.5	334.1	0.0	0.0	0.0	0.0	0.0	0.0	363.0	348.1	0.7
10	800	3/20	25	LF	SNG-8	358.6	331.3	330.6	0.0	0.0	0.0	0.0	0.0	0.0	358.6	344.8	3.3

Comments:

1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
7 SLIGHT CIRCUMFERENTIAL FLOW CRACK, CENTE
7 RIB, ITC.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 102X (2) Sponsor Code 7928/31 Test No. 450003 Convoy R102

Inv.No. X1314 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	24	LF	SNG-8	377.5	349.3	348.0	0.0	0.0	0.0	0.0	0.0	0.0	375.3	362.5	
2	800	2/22	26	RF	SNG-8	374.0	346.0	346.8	0.0	0.0	0.0	0.0	0.0	0.0	374.5	360.3	2.2
3	800	2/27	25	LF	SNG-8	372.3	346.1	347.0	0.0	0.0	0.0	0.0	0.0	0.0	373.5	359.8	0.5
4	800	2/29	26	RF	SNG-8	369.3	343.8	345.0	0.0	0.0	0.0	0.0	0.0	0.0	372.1	357.6	2.2
5	800	3/ 2	26	LF	SNG-8	370.0	344.3	343.6	0.0	0.0	0.0	0.0	0.0	0.0	368.5	356.6	1.0
6	800	3/ 8	25	RF	SNG-8	365.6	340.5	343.3	0.0	0.0	0.0	0.0	0.0	0.0	368.1	354.4	2.2
7	800	3/12	25	LF	SNG-8	362.6	340.2	340.6	0.0	0.0	0.0	0.0	0.0	0.0	364.3	352.0	2.4
8	800	3/14	25	RF	SNG-8	362.8	338.0	337.0	0.0	0.0	0.0	0.0	0.0	0.0	361.3	349.9	2.2
9	800	3/16	26	LF	SNG-8	356.6	334.6	336.8	0.0	0.0	0.0	0.0	0.0	0.0	359.6	347.0	2.8
10	800	3/20	24	RF	SNG-8	354.8	331.6	332.6	0.0	0.0	0.0	0.0	0.0	0.0	356.0	343.9	3.2

Comments:

1 93 WET MILES.
3 61 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
7 SLIGHT CIRCUMFERENTIAL FLOW CRACK, CENTE
7 RIB, ITC.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 102M (3) Sponsor Code 7928/32 Test No. 450003 Convoy R102

Inv.No. M1321 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	LR	SNG-8	341.3	341.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.3	340.4	
2	800	2/22	26	RR	SNG-8	334.3	341.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.5	338.0	2.4
3	800	2/27	25	LR	SNG-8	332.8	340.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.3	336.5	1.5
4	800	2/29	26	RR	SNG-8	329.8	340.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.3	335.4	1.1
5	800	3/ 2	26	LR	SNG-8	326.3	337.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.5	332.7	2.7
6	800	3/ 6	25	RR	SNG-8	328.0	334.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3	331.2	1.5
7	800	3/12	26	LR	SNG-8	322.6	332.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.5	327.8	3.4
8	800	3/14	25	RR	SNG-8	320.0	329.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.3	324.9	2.9
9	800	3/16	26	LR	SNG-8	317.3	330.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.3	323.9	1.0
10	800	3/20	25	RR	SNG-8	314.1	326.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.3	320.6	3.3

Comments:
1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 102M (3) Sponsor Code 7928/32 Test No. 450003 Convoy R102

Inv.No. M1322 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	25	RR	SNG-8	341.3	342.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.6	341.2	
2	800	2/22	26	LR	SNG-8	336.3	342.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.0	338.6	2.6
3	800	2/27	26	RR	SNG-8	333.3	340.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.5	336.1	2.5
4	800	2/29	26	LR	SNG-8	331.0	340.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.8	334.8	1.3
5	800	3/ 2	26	RR	SNG-8	329.5	338.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.6	333.1	1.7
6	800	3/ 8	25	LR	SNG-8	327.8	335.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.5	330.5	2.6
7	800	3/12	25	RR	SNG-8	324.8	333.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.3	328.3	2.2
8	800	3/14	0	LR	SNG-8	321.8	331.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.6	324.6	3.7
9	525	3/16	0	RR	SNG-8	321.0	330.0	330.1	0.0	0.0	0.0	0.0	0.0	0.0	322.0	325.8	-1.2
10																	

Comments:

1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
8 PUNCTURE SHOULDER GROOVE DSS SIDE
8 BETWEEN MEASUREMENT POINTS 1 & 2.
8 REPAIRED. NO MILEAGE LOSS.
9 PUNCTURE DSS SIDE BETWEEN MEASURING
9 POINT 1 & 2. TIRE REMOVED. 275 SHORT
9 MILES. REPLACED BY TIRE 1125.
10 SEE INSPECTION 9 NOTE.

Psi: Post run inflation. Inspection Psi = .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 102M (3) Sponsor Code 7929/32 Test No. 4S0003 Convoy R102

Inv.No. M1323 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	300	2/20	25	RF	SNG-8	341.3	342.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.5	341.1	
2	600	2/22	26	LF	SNG-8	337.0	340.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.5	338.9	2.2
3	800	2/27	25	RF	SNG-9	336.0	339.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.3	337.3	1.6
4	800	2/29	26	LF	SNG-8	334.0	338.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.8	335.7	1.6
5	800	3/ 2	26	RF	SNG-9	332.1	336.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.1	335.0	0.7
6	800	3/ 6	25	LF	SNG-9	330.1	335.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.5	332.2	2.8
7	800	3/12	26	RF	SNG-8	325.8	334.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.0	329.6	2.4
8	800	3/14	25	LF	SNG-6	324.8	333.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.3	328.3	1.5
9	800	3/16	26	RF	SNG-8	320.1	330.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.0	325.2	3.1
10	800	3/20	25	LF	SNG-9	321.5	329.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.8	323.8	1.4

Comments:

1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 . .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1024 (3) Sponsor Code 7928/32 Test No. 450003 Convoy R102

Inv.No. M1324 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	GSS	Avg	Loss
1	800	2/20	24	LF	SNG-9	342.0	343.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	340.1	341.9	
2	800	2/22	25	RF	SNG-9	338.0	341.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.0	338.5	3.4
3	800	2/27	26	LF	SNG-9	334.8	339.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.5	335.7	2.8
4	800	2/28	25	RF	SNG-9	331.5	336.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.5	332.7	3.0
5	800	3/ 2	26	LF	SNG-9	329.5	333.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.6	332.2	0.5
6	800	3/ 6	25	RF	SNG-9	327.1	334.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.0	329.5	2.7
7	800	3/12	26	LF	SNG-9	324.0	331.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.1	325.4	4.1
8	800	3/14	26	RF	SNG-9	322.1	328.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.8	323.3	2.1
9	800	3/16	25	LF	SNG-9	319.3	327.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.3	321.1	2.2
10	800	3/20	25	RF	SNG-9	317.0	324.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.9	319.1	2.0

Comments:

1 95 MET MILES.
3 61 MET MILES.
7 232 MET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 102G (4) Sponsor Code T928/33 Test No. 450003 Convoy R102

Inv.No. G1331 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	26	LR	SNG-8	306.0	288.1	294.3	0.0	0.0	0.0	0.0	0.0	0.0	314.6	300.8	
2	800	2/22	26	RR	SNG-8	299.8	283.3	289.0	0.0	0.0	0.0	0.0	0.0	0.0	306.6	294.7	6.1
3	800	2/27	26	LR	SNG-8	297.5	279.1	285.0	0.0	0.0	0.0	0.0	0.0	0.0	302.0	290.9	3.8
4	800	2/29	26	RR	SNG-8	293.6	275.8	283.0	0.0	0.0	0.0	0.0	0.0	0.0	302.0	288.6	2.3
5	800	3/ 2	25	LR	SNG-8	293.6	272.1	278.6	0.0	0.0	0.0	0.0	0.0	0.0	298.1	285.7	2.9
6	800	3/ 5	25	RR	SNG-8	289.1	270.3	277.5	0.0	0.0	0.0	0.0	0.0	0.0	294.6	282.9	2.8
7	800	3/12	26	LR	SNG-8	286.6	265.8	272.3	0.0	0.0	0.0	0.0	0.0	0.0	291.0	279.0	3.9
8	800	3/14	26	RR	SNG-8	283.3	264.3	272.8	0.0	0.0	0.0	0.0	0.0	0.0	289.3	277.5	1.5
9	800	3/16	26	LR	SNG-8	281.0	260.6	266.5	0.0	0.0	0.0	0.0	0.0	0.0	283.3	272.9	4.6
10	800	3/20	25	RR	SNG-8	280.0	256.8	267.1	0.0	0.0	0.0	0.0	0.0	0.0	284.1	272.0	0.9

Comments:
1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1000 (-) Sponsor Code 7929/23 Test No. 450003 Convoy R102

Inv.No. G1332 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	27	RR	SNG-8	306.6	288.3	294.5	0.0	0.0	0.0	0.0	0.0	0.0	310.3	300.0	
2	800	2/22	26	LR	SNG-8	302.6	282.8	289.1	0.0	0.0	0.0	0.0	0.0	0.0	303.3	294.5	5.5
3	800	2/27	26	RR	SNG-8	298.3	278.0	286.5	0.0	0.0	0.0	0.0	0.0	0.0	298.0	290.2	4.3
4	800	2/29	26	LR	SNG-8	297.3	277.3	285.1	0.0	0.0	0.0	0.0	0.0	0.0	295.6	288.9	1.3
5	800	3/ 2	26	RR	SNG-8	297.3	275.6	284.5	0.0	0.0	0.0	0.0	0.0	0.0	293.6	287.8	1.1
6	800	3/ 8	25	LR	SNG-8	293.0	273.0	279.8	0.0	0.0	0.0	0.0	0.0	0.0	291.1	284.3	3.5
7	800	3/12	26	RR	SNG-8	292.1	269.6	277.3	0.0	0.0	0.0	0.0	0.0	0.0	296.8	281.5	2.8
8	800	3/14	26	LR	SNG-8	286.6	267.3	275.6	0.0	0.0	0.0	0.0	0.0	0.0	284.1	279.0	2.5
9	800	3/16	26	RR	SNG-8	283.5	263.1	270.5	0.0	0.0	0.0	0.0	0.0	0.0	275.8	274.3	4.7
10	800	3/20	26	LR	SNG-8	282.6	260.1	269.8	0.0	0.0	0.0	0.0	0.0	0.0	278.3	272.8	1.5

Comments:

1 35 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1030 (4) Sponsor Code 7929/33 Test No. 450003 Convoy R102

Inv.No. G1333 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	27	RF	SNG-8	311.3	289.0	295.8	0.0	0.0	0.0	0.0	0.0	0.0	311.3	301.9	
2	800	2/22	26	LF	SNG-8	306.6	283.8	291.0	0.0	0.0	0.0	0.0	0.0	0.0	308.8	297.6	4.3
3	800	2/27	26	RF	SNG-8	303.6	278.3	285.6	0.0	0.0	0.0	0.0	0.0	0.0	305.0	293.2	4.4
4	800	2/29	25	LF	SNG-8	300.5	276.6	286.0	0.0	0.0	0.0	0.0	0.0	0.0	303.6	291.7	1.5
5	800	3/ 2	26	RF	SNG-8	301.6	276.3	283.3	0.0	0.0	0.0	0.0	0.0	0.0	303.5	291.2	0.5
6	800	3/ 8	25	LF	SNG-8	297.1	271.3	281.8	0.0	0.0	0.0	0.0	0.0	0.0	299.8	287.5	3.7
7	800	3/12	25	RF	SNG-8	293.5	268.5	279.0	0.0	0.0	0.0	0.0	0.0	0.0	296.5	284.4	3.1
8	800	3/14	26	LF	SNG-8	291.8	263.8	274.3	0.0	0.0	0.0	0.0	0.0	0.0	294.3	281.1	3.3
9	800	3/16	26	RF	SNG-8	287.8	262.5	272.6	0.0	0.0	0.0	0.0	0.0	0.0	290.1	278.3	2.8
10	800	3/20	25	LF	SNG-8	286.3	259.1	272.1	0.0	0.0	0.0	0.0	0.0	0.0	290.1	277.0	1.3

Comments:
1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
Psi: Post run inflation. Inspection Psi = 26

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1326 (-) Sponsor Code 7928/33 Test No. 450003 Convoy R102

Inv.No. G1334 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	26	LF	SNG-8	296.5	286.1	291.5	0.0	0.0	0.0	0.0	0.0	0.0	303.5	294.4	
2	800	2/22	25	RF	SNG-8	293.0	281.6	288.1	0.0	0.0	0.0	0.0	0.0	0.0	298.6	290.4	4.0
3	800	2/27	26	LF	SNG-8	290.0	279.0	284.8	0.0	0.0	0.0	0.0	0.0	0.0	294.0	287.0	3.4
4	800	2/29	26	RF	SNG-8	287.5	276.6	284.5	0.0	0.0	0.0	0.0	0.0	0.0	292.1	285.2	1.8
5	800	3/ 2	26	LF	SNG-8	285.1	274.8	282.6	0.0	0.0	0.0	0.0	0.0	0.0	292.0	283.7	1.5
6	800	3/ 8	25	RF	SNG-8	284.0	271.6	280.0	0.0	0.0	0.0	0.0	0.0	0.0	289.5	281.0	2.7
7	800	3/12	26	LF	SNG-8	280.8	267.8	276.1	0.0	0.0	0.0	0.0	0.0	0.0	285.1	277.5	3.5
8	800	3/14	26	RF	SNG-8	279.6	266.0	274.5	0.0	0.0	0.0	0.0	0.0	0.0	281.6	275.5	2.0
9	800	3/16	26	LF	SNG-8	274.6	263.6	270.6	0.0	0.0	0.0	0.0	0.0	0.0	281.0	272.5	3.0
10	800	3/20	25	RF	SNG-8	272.8	262.0	271.3	0.0	0.0	0.0	0.0	0.0	0.0	278.3	271.1	1.4

Comments:

1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1025 (5) Sponsor Code 7928/34

Test No. 4SC003 Convoy R102

Inv.No. 31341 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LR	SNG-9	302.3	311.6	314.6	0.0	0.0	0.0	0.0	0.0	0.0	302.0	307.7	
2	800	2/22	25	RR	SNG-8	291.0	304.6	307.5	0.0	0.0	0.0	0.0	0.0	0.0	297.1	300.1	7.6
3	800	2/27	26	LR	SNG-8	284.5	300.6	301.1	0.0	0.0	0.0	0.0	0.0	0.0	287.6	293.5	6.6
4	800	2/29	26	RR	SNG-8	279.6	297.6	302.1	0.0	0.0	0.0	0.0	0.0	0.0	286.1	291.5	2.0
5	800	3/ 2	25	LR	SNG-8	276.3	293.3	299.0	0.0	0.0	0.0	0.0	0.0	0.0	284.6	288.3	3.2
6	800	3/ 8	25	RR	SNG-8	269.6	290.3	294.6	0.0	0.0	0.0	0.0	0.0	0.0	280.6	283.8	4.5
7	800	3/12	26	LR	SNG-8	263.6	283.6	290.3	0.0	0.0	0.0	0.0	0.0	0.0	276.0	278.5	5.3
8	800	3/14	26	RR	SNG-9	259.8	280.8	289.0	0.0	0.0	0.0	0.0	0.0	0.0	270.5	274.8	3.7
9	800	3/16	25	LR	SNG-9	254.0	277.5	284.3	0.0	0.0	0.0	0.0	0.0	0.0	266.1	270.5	4.3
10	800	3/20	25	RR	SNG-9	250.0	274.5	282.3	0.0	0.0	0.0	0.0	0.0	0.0	264.5	267.8	2.7

Comments:

1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 102= (5) Sponsor Code 7928/34 Test No. 450003 Convoy R102

Inv.No. B1342 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	23	RR	SNG-8	301.3	308.3	311.0	0.0	0.0	0.0	0.0	0.0	0.0	306.0	306.7	
2	800	2/22	25	LR	SNG-5	292.5	301.3	302.5	0.0	0.0	0.0	0.0	0.0	0.0	298.0	298.6	8.1
3	800	2/27	25	RR	SNG-8	288.3	295.8	298.5	0.0	0.0	0.0	0.0	0.0	0.0	291.5	293.5	5.1
4	800	2/29	26	LR	SNG-8	280.6	293.1	294.6	0.0	0.0	0.0	0.0	0.0	0.0	288.5	289.3	4.2
5	800	3/ 2	26	RR	SNG-8	282.6	290.0	293.6	0.0	0.0	0.0	0.0	0.0	0.0	286.3	288.2	1.1
6	800	3/ 8	25	LR	SNG-8	274.6	286.1	287.0	0.0	0.0	0.0	0.0	0.0	0.0	282.5	282.6	5.6
7	800	3/12	26	RR	SNG-8	270.8	280.5	284.8	0.0	0.0	0.0	0.0	0.0	0.0	275.8	278.0	4.6
8	800	3/14	25	LR	SNG-8	267.3	276.3	280.5	0.0	0.0	0.0	0.0	0.0	0.0	272.5	274.2	3.8
9	800	3/16	25	RR	SNG-8	260.3	272.0	278.3	0.0	0.0	0.0	0.0	0.0	0.0	268.1	269.7	4.5
10	800	3/20	25	LR	SNG-8	259.3	270.3	275.0	0.0	0.0	0.0	0.0	0.0	0.0	267.8	268.1	1.6

Comments:
1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 102E (5) Sponsor Code 7928/34 Test No. 450003 Convoy R102

Inv.No. 81343 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	23	RF	SNG-8	300.0	310.6	310.6	0.0	0.0	0.0	0.0	0.0	0.0	301.0	305.6	
2	800	2/22	25	LF	SNG-8	294.3	304.0	304.0	0.0	0.0	0.0	0.0	0.0	0.0	293.3	298.9	6.7
3	800	2/27	25	RF	SNG-8	287.1	297.3	298.8	0.0	0.0	0.0	0.0	0.0	0.0	285.6	292.3	6.6
4	800	2/29	26	LF	SNG-8	282.3	296.8	297.1	0.0	0.0	0.0	0.0	0.0	0.0	281.0	289.3	3.0
5	800	3/ 2	26	RF	SNG-8	280.3	294.0	292.3	0.0	0.0	0.0	0.0	0.0	0.0	278.0	286.2	3.1
6	800	3/ 8	25	LF	SNG-8	274.6	289.1	287.1	0.0	0.0	0.0	0.0	0.0	0.0	273.5	281.1	5.1
7	800	3/12	25	RF	SNG-8	270.3	285.6	285.1	0.0	0.0	0.0	0.0	0.0	0.0	268.0	277.3	3.8
8	800	3/14	25	LF	SNG-8	267.0	281.6	282.6	0.0	0.0	0.0	0.0	0.0	0.0	264.1	273.9	3.4
9	800	3/16	25	RF	SNG-8	261.1	278.0	279.0	0.0	0.0	0.0	0.0	0.0	0.0	258.8	269.3	4.6
10	800	3/20	25	LF	SNG-8	261.5	274.8	276.6	0.0	0.0	0.0	0.0	0.0	0.0	257.3	267.6	1.7

Comments:
1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 1025 (5) Sponsor Code 7928/34 Test No. 450003 Convoy R102

Inv.No. B1344 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	GSS	Avg	Loss
1	800	2/20	23	LF	SNG-8	302.1	311.3	307.8	0.0	0.0	0.0	0.0	0.0	0.0	300.1	305.4	
2	800	2/22	26	RF	SNG-8	292.6	306.6	302.5	0.0	0.0	0.0	0.0	0.0	0.0	297.1	299.8	5.6
3	800	2/27	25	LF	SNG-8	287.8	300.0	298.0	0.0	0.0	0.0	0.0	0.0	0.0	290.6	294.1	5.7
4	800	2/29	26	RF	SNG-8	292.6	300.1	296.8	0.0	0.0	0.0	0.0	0.0	0.0	290.5	292.5	1.6
5	800	3/ 2	26	LF	SNG-8	280.3	296.3	291.6	0.0	0.0	0.0	0.0	0.0	0.0	283.6	288.0	4.5
6	800	3/ 8	25	RF	SNG-8	278.0	293.6	290.1	0.0	0.0	0.0	0.0	0.0	0.0	282.1	286.0	2.0
7	800	3/12	25	LF	SNG-8	271.6	289.8	287.0	0.0	0.0	0.0	0.0	0.0	0.0	277.0	281.4	4.6
8	800	3/14	26	RF	SNG-8	267.8	286.5	283.6	0.0	0.0	0.0	0.0	0.0	0.0	275.3	278.3	3.1
9	800	3/16	24	LF	SNG-8	261.6	281.0	278.6	0.0	0.0	0.0	0.0	0.0	0.0	269.0	272.6	5.7
10	800	3/20	24	RF	SNG-8	260.6	276.5	276.5	0.0	0.0	0.0	0.0	0.0	0.0	265.5	270.3	2.3

Comments:
1 95 WET MILES.
3 61 WET MILES.
7 232 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 1
REF NO. NRD-002 TEST 4S0004 Date 2/16/84
CONVOY R202 COURSE MONITORING TIRES (CMT) RS002 / STD002

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
Tire	- - - - - - W E A R - - - - - - - - - - - - - - - - - -									
11102	305.8	305.6	306.2	305.5	305.5	305.3	306.2	305.7	306.1	
										Intercept a 305.68
										Wear Rate b -0.02
11103	305.8	306.5	305.6	305.5	306.0	306.0	306.5	306.7	306.0	
										Intercept a 305.82
										Wear Rate b -0.07

Average Intercept 305.755
Average Wear -0.040 Base Wear Rate -0.04 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 7200 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/41							
	- 1	2.40	362.81	2.40	126138	420.5	420
	- 2	2.30	363.32	2.30	131809	439.4	430
	- 3	2.20	364.06	2.20	138100	460.3	460
	- 4	2.22	363.71	2.22	136705	455.7	450
7928/42							
	- 1	2.41	341.34	2.41	116709	389.0	380
	- 2	3.27	342.80	3.27	86672	288.9	280
	- 3	2.49	343.42	2.49	113820	379.4	370
	- 4	2.82	344.62	2.82	101020	336.7	330
7928/43							
	- 1	3.51	290.66	3.51	65945	219.8	210
	- 2	3.41	289.42	3.41	67492	225.0	220
	- 3	3.31	292.41	3.31	70410	234.7	230
	- 4	3.25	300.71	3.25	74249	247.5	240
7928/44							
	- 1	5.50	305.02	5.50	44985	150.0	150
	- 2	5.29	304.52	5.29	46645	155.5	150
	- 3	4.88	303.15	4.88	50216	167.4	160
	- 4	4.91	302.30	4.91	49741	165.8	160

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 1
RSF NO. NRO-002 TEST 4S0004 Date 2/16/94
CONVOY R202 COURSE MONITORING TIRES (CMT) RS002 / STD002

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
Tire	- - - - - - W E A R -										
11102	305.8	305.6	306.2	305.5	305.5	305.3	306.2	305.7	306.1	305.8	
									Intercept a		305.69
									Wear Rate b		-0.01
11103	305.5	306.5	305.6	305.5	306.0	306.0	306.5	306.7	306.0	306.2	
									Intercept a		305.85
									Wear Rate b		-0.06

Average Intercept 305.775
Average Wear -0.030 Base Wear Rate -0.03 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 8000 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/41							
	- 1	2.46	362.93	2.46	123129	410.4	410
	- 2	2.31	363.34	2.31	131250	437.5	430
	- 3	2.29	364.25	2.29	132787	442.6	440
	- 4	2.28	363.35	2.28	133190	444.0	440
7928/42							
	- 1	2.50	341.52	2.50	112608	375.4	370
	- 2	3.24	342.74	3.24	87448	291.5	290
	- 3	2.46	343.35	2.46	115170	383.9	380
	- 4	2.78	344.53	2.78	102429	341.4	340
7928/43							
	- 1	3.51	290.67	3.51	65948	219.8	210
	- 2	3.36	289.35	3.35	68063	226.9	220
	- 3	3.36	292.50	3.36	69401	231.3	230
	- 4	3.20	300.60	3.20	75363	251.2	250
7928/44							
	- 1	5.32	304.63	5.32	46407	154.7	150
	- 2	5.20	304.32	5.20	47400	158.0	150
	- 3	4.76	302.91	4.76	51411	171.4	170
	- 4	4.79	302.05	4.79	50915	169.7	160

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 79284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 450004 Convoy 8202 Candidate Group 202X Ref.#NRD-002
7928/41

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R - - - - - - - - - - - - - - - - - -										
X1411	364.2	359.2	358.3	356.5	356.3	353.2	352.8	349.1	346.5	344.7	
									Intercept a		362.93
									Wear Rate b		2.46
X1412	364.2	359.5	359.0	358.6	357.1	354.2	352.8	351.3	346.9	346.6	
									Intercept a		363.34
									Wear Rate b		2.31
X1413	364.0	361.3	359.7	359.3	358.5	356.6	353.5	351.8	346.5	346.9	
									Intercept a		364.25
									Wear Rate b		2.29
X1414	363.6	361.4	359.6	358.9	356.5	356.5	353.7	351.2	346.2	346.8	
									Intercept a		363.85
									Wear Rate b		2.28

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	CD	CSW	CR%	Hardness
X1411	2/20/84	BI1	800	25.29	7.80	122.4	61
X1411	3/20/84	08	8000	0.00	0.00	0.0	64
X1412	2/20/84	BI1	800	25.30	7.80	119.7	62
X1412	3/20/84	08	8000	0.00	0.00	0.0	65
X1413	2/20/84	BI1	800	25.29	7.80	124.8	61
X1413	3/20/84	08	8000	0.00	0.00	0.0	64
X1414	2/20/84	BI1	800	25.29	7.80	124.0	62
X1414	3/20/84	08	8000	0.00	0.00	0.0	64

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 450004 Convoy R202 Candidate Group 202M Ref.#NRD-002
7929/42

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
M1421	341.2	339.1	336.8	335.9	333.7	333.6	330.3	326.8	325.3	322.7	
										Intercept a	341.52
										Wear Rate b	2.50
M1422	343.1	339.8	337.6	335.3	331.2	330.2	327.3	325.8	320.8	319.7	
										Intercept a	342.74
										Wear Rate b	3.24
M1423	343.3	341.5	340.1	338.1	334.2	332.4	332.2	329.6	327.7	326.0	
										Intercept a	343.35
										Wear Rate b	2.46
M1424	344.3	342.7	339.4	338.7	334.9	333.5	332.2	329.2	325.5	324.9	
										Intercept a	344.53
										Wear Rate b	2.78

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	CD	CSW	CR%	Hardness
M1421	2/20/84	BI1	800	25.40	8.00	161.0	62
M1421	3/20/84	08	8000	0.00	0.00	0.0	64
M1422	2/20/84	BI1	800	25.41	8.00	159.7	63
M1422	3/20/84	08	8000	0.00	0.00	0.0	68
M1423	2/20/84	BI1	800	25.41	8.00	152.5	63
M1423	3/20/84	08	8000	0.00	0.00	0.0	65
M1424	2/20/84	BI1	800	25.41	8.00	164.6	64
M1424	3/20/84	08	8000	0.00	0.00	0.0	67

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 450004 Convoy F202 Candidate Group 202G Ref.#NRD-002
7928/43

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
G1431	292.9	287.5	283.1	281.4	279.4	276.0	275.2	271.0	268.5	265.4	
										Intercept a	290.67
										Wear Rate b	3.51
G1432	291.5	286.1	282.5	280.9	277.8	275.6	273.3	271.2	267.7	265.3	
										Intercept a	289.35
										Wear Rate b	3.35
G1433	293.6	289.7	285.7	283.8	281.9	279.2	277.5	274.0	270.9	267.9	
										Intercept a	292.50
										Wear Rate b	3.36
G1434	301.4	298.7	294.0	292.9	290.0	288.2	284.7	282.4	280.4	278.1	
										Intercept a	300.60
										Wear Rate b	3.20

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
G1431	2/20/84	BI1	800	25.27	7.80	148.8	60
G1431	3/20/84	08	8000	0.00	0.00	0.0	66
G1432	2/20/84	BI1	800	25.26	7.80	154.3	60
G1432	3/20/84	08	8000	0.00	0.00	0.0	65
G1433	2/20/84	BI1	800	25.26	7.80	152.5	60
G1433	3/20/84	08	8000	0.00	0.00	0.0	64
G1434	2/20/84	BI1	800	25.27	7.75	155.6	61
G1434	3/20/84	08	8000	0.00	0.00	0.0	65

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San Antonio, Texas 78284

Project: 8-7928- 1

M E A S U R E M E N T D A T A F I L E

Test 450004 Convoy 8202 Candidate Group 2022 Ref.#NRD-002
7928/44

Date:	2/20	2/22	2/27	2/29	3/ 2	3/ 8	3/12	3/14	3/16	3/20	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
B1441	307.3	301.5	294.8	289.9	286.0	282.1	279.3	275.1	270.8	268.1	
									Intercept a		304.63
									Wear Rate b		5.32
B1442	306.9	301.4	293.7	290.2	286.1	283.3	279.6	275.7	271.5	267.8	
									Intercept a		304.32
									Wear Rate b		5.20
B1443	304.8	300.0	292.8	290.7	287.8	283.4	279.9	276.2	272.4	269.8	
									Intercept a		302.91
									Wear Rate b		4.76
B1444	304.0	299.3	292.5	289.2	286.1	282.3	279.3	275.1	271.5	268.7	
									Intercept a		302.05
									Wear Rate b		4.79

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
B1441	2/20/84	BI1	800	25.32	7.80	134.3	61
B1441	3/20/84	08	8000	0.00	0.00	0.0	70
B1442	2/20/84	BI1	800	25.32	7.80	127.4	64
B1442	3/20/84	08	8000	0.00	0.00	0.0	70
B1443	2/20/84	BI1	800	25.32	7.80	132.8	63
B1443	3/20/84	08	8000	0.00	0.00	0.0	70
B1444	2/20/84	BI1	800	25.31	7.80	135.2	64
B1444	3/20/84	08	8000	0.00	0.00	0.0	69

T R E A D L O S S S U M M A R Y

Group 202X (2) Sponsor Code 7928/41 Test No. 450004 Convoy R202

Inv.No. X1411 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	24	LR	SNG-9	377.8	351.6	349.5	0.0	0.0	0.0	0.0	0.0	0.0	377.6	364.2	
2	800	2/22	25	RR	SNG-9	371.1	345.5	346.1	0.0	0.0	0.0	0.0	0.0	0.0	374.0	359.2	5.0
3	800	2/27	25	LR	SNG-8	369.3	345.0	345.5	0.0	0.0	0.0	0.0	0.0	0.0	372.3	358.3	0.9
4	800	2/29	26	RR	SNG-8	366.6	343.1	345.3	0.0	0.0	0.0	0.0	0.0	0.0	371.0	356.5	1.8
5	800	3/ 2	26	LR	SNG-9	364.6	345.0	344.0	0.0	0.0	0.0	0.0	0.0	0.0	371.3	356.3	0.2
6	800	3/ 8	25	RR	SNG-8	361.3	341.6	342.8	0.0	0.0	0.0	0.0	0.0	0.0	366.6	353.2	3.1
7	800	3/12	26	LR	SNG-8	360.1	341.3	342.8	0.0	0.0	0.0	0.0	0.0	0.0	366.6	352.8	0.4
8	800	3/14	25	RR	SNG-8	357.8	338.5	336.6	0.0	0.0	0.0	0.0	0.0	0.0	363.3	349.1	3.7
9	800	3/16	25	LR	SNG-9	354.3	336.3	335.6	0.0	0.0	0.0	0.0	0.0	0.0	359.6	346.5	2.6
10	800	3/20	25	RR	SNG-8	350.6	334.1	336.0	0.0	0.0	0.0	0.0	0.0	0.0	358.0	344.7	1.8

Comments:

1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES. SLIGHT CIRCUMFERENTIAL,
7 FLOW CRACK, CENTER RIB, ITC.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 202X (2) Sensor Code 7928/41 Test No. 450004 Convoy R202

Inv.No. X1412 Tire 2 Run In Complete

Irs	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	RR	SNG-8	379.0	349.8	348.8	0.0	0.0	0.0	0.0	0.0	0.0	379.0	364.2	
2	800	2/22	26	LR	SNG-8	372.6	344.5	345.1	0.0	0.0	0.0	0.0	0.0	0.0	375.5	359.5	4.7
3	800	2/27	25	RR	SNG-8	372.6	344.5	345.0	0.0	0.0	0.0	0.0	0.0	0.0	372.6	359.0	0.5
4	800	2/29	26	LR	SNG-8	371.3	344.0	344.3	0.0	0.0	0.0	0.0	0.0	0.0	374.8	358.6	0.4
5	800	3/ 2	26	RR	SNG-8	367.8	344.0	343.3	0.0	0.0	0.0	0.0	0.0	0.0	372.1	357.1	1.5
6	800	3/ 6	25	LR	SNG-8	365.5	342.0	342.1	0.0	0.0	0.0	0.0	0.0	0.0	367.1	354.2	2.9
7	800	3/12	26	RR	SNG-8	363.6	340.3	339.8	0.0	0.0	0.0	0.0	0.0	0.0	367.3	352.8	1.4
8	800	3/14	26	LR	SNG-8	363.3	340.1	337.0	0.0	0.0	0.0	0.0	0.0	0.0	364.6	351.3	1.5
9	800	3/16	25	RR	SNG-8	356.6	335.6	333.6	0.0	0.0	0.0	0.0	0.0	0.0	361.5	346.9	4.4
10	800	3/20	25	LR	SNG-8	355.6	334.5	336.1	0.0	0.0	0.0	0.0	0.0	0.0	360.1	346.6	0.3

Comments:

1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES. SLIGHT CIRCUMFERENTIAL,
7 FLOW CRACK, CENTER RIB, ITC.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 202X (2) Sponsor Code 7923/41 Test No. 4S0004 Convoy R202

Inv.No. X1413 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	RF	SNG-8	377.3	349.8	350.6	0.0	0.0	0.0	0.0	0.0	0.0	378.3	364.0	
2	800	2/22	25	LF	SNG-8	374.1	347.8	347.6	0.0	0.0	0.0	0.0	0.0	0.0	375.3	361.3	2.7
3	800	2/27	26	RF	SNG-8	372.5	346.0	346.6	0.0	0.0	0.0	0.0	0.0	0.0	373.5	359.7	1.6
4	800	2/29	26	LF	SNG-8	369.6	347.1	346.3	0.0	0.0	0.0	0.0	0.0	0.0	373.8	359.3	0.4
5	800	3/ 2	25	RF	SNG-8	369.0	346.0	346.1	0.0	0.0	0.0	0.0	0.0	0.0	372.6	358.5	0.8
6	800	3/ 8	25	LF	SNG-8	367.3	344.3	344.6	0.0	0.0	0.0	0.0	0.0	0.0	370.1	356.6	1.9
7	800	3/12	26	RF	SNG-8	360.6	342.9	342.6	0.0	0.0	0.0	0.0	0.0	0.0	366.0	353.5	3.1
8	800	3/14	26	LF	SNG-8	361.1	341.5	339.0	0.0	0.0	0.0	0.0	0.0	0.0	365.6	351.8	1.7
9	800	3/16	25	RF	SNG-8	356.3	338.1	336.5	0.0	0.0	0.0	0.0	0.0	0.0	362.8	348.5	3.3
10	800	3/20	25	LF	SNG-8	353.8	336.5	337.3	0.0	0.0	0.0	0.0	0.0	0.0	359.8	346.9	1.6

Comments:

1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES. SLIGHT CIRCUMFERENTIAL,
7 FLOW CRACK, CENTER RIB, ITC.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 202A (C 2) Sponsor Code 792c/-1 Test No. -50034 Convoy 9202

Inv.No. X1414 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	55	2	3	4	5	6	7	8	9	CSS	Avg	Loss
1	330	2/23	24	LF	SNG-9	377.0	350.5	350.1	0.0	0.0	0.0	0.0	0.0	0.0	376.9	363.6	
2	830	2/22	25	RF	SNG-4	374.1	347.5	347.8	0.0	0.0	0.0	0.0	0.0	0.0	376.0	361.4	2.2
3	930	2/17	25	LF	SNG-8	371.0	347.0	345.9	0.0	0.0	0.0	0.0	0.0	0.0	374.5	359.6	1.8
4	930	2/23	26	RF	SNG-9	370.6	346.6	345.6	0.0	0.0	0.0	0.0	0.0	0.0	372.6	358.9	0.7
5	930	3/ 2	26	LF	SNG-9	367.4	344.6	344.1	0.0	0.0	0.0	0.0	0.0	0.0	369.3	356.5	2.4
6	930	3/ 5	25	RF	SNG-8	366.5	344.3	343.5	0.0	0.0	0.0	0.0	0.0	0.0	369.6	356.5	0.0
7	930	3/12	26	LF	SNG-5	365.1	341.5	340.8	0.0	0.0	0.0	0.0	0.0	0.0	367.3	353.7	2.8
8	930	3/14	25	RF	SNG-4	362.5	340.0	339.0	0.0	0.0	0.0	0.0	0.0	0.0	362.2	351.2	2.5
9	930	3/17	25	LF	SNG-4	356.3	336.3	337.2	0.0	0.0	0.0	0.0	0.0	0.0	360.3	349.2	3.0
10	930	3/20	24	RF	SNG-8	354.3	334.6	334.8	0.0	0.0	0.0	0.0	0.0	0.0	359.2	346.8	1.4

Comments:

1 144 WET MILES.
3 53 WET MILES.
7 244 WET MILES. SLIGHT CIRCUMFERENTIAL,
7 FLOW CRACK, CENTER RIB, ITC.
8 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
8 CENTER RIB, ITC.
9 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
9 CENTER RIB, ITC.
10 SLIGHT CIRCUMFERENTIAL FLOW CRACK,
10 CENTER RIB, ITC.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2024 (3) Sponsor Code 7929/42

Test No. 450004 Convoy R202

Inv.No. M1421 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LR	SNG-8	340.6	343.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.6	341.2	
2	800	2/22	25	RR	SNG-8	336.6	342.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.3	339.1	2.1
3	800	2/27	26	LR	SNG-8	332.2	341.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.1	336.8	2.3
4	900	2/29	26	RR	SNG-8	331.6	340.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.8	335.8	1.0
5	800	3/ 2	26	LR	SNG-8	329.3	338.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.5	333.7	2.1
6	800	3/ 8	25	RR	SNG-8	328.0	338.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.6	333.6	0.1
7	800	3/12	26	LR	SNG-8	323.8	336.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.1	330.3	3.3
8	800	3/14	25	RR	SNG-8	322.6	332.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.8	326.8	3.5
9	800	3/16	25	LR	SNG-8	316.6	333.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.5	325.3	1.5
10	800	3/20	25	RR	SNG-8	317.3	326.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.3	322.7	2.6

Comments:

1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 202M (3) Sponsor Code 7929/42 Test No. 450004 Convoy R202

Inv.No. M1422 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	CSS	Avg	Loss
1	200	2/20	25	RR	SNG-8	342.5	345.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	341.3	343.1	
2	600	2/22	25	LR	SNG-8	336.8	342.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.5	339.8	3.3
3	800	2/27	25	RR	SNG-8	336.1	341.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.6	337.6	2.2
4	800	2/29	26	LR	SNG-8	333.9	340.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.0	335.3	2.3
5	800	3/ 2	26	RR	SNG-8	329.8	336.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.1	331.2	4.1
6	800	3/ 8	25	LR	SNG-8	327.6	335.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.6	330.2	1.0
7	800	3/12	26	RR	SNG-8	325.0	333.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.1	327.3	2.9
8	800	3/14	26	LR	SNG-8	321.6	333.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.3	325.8	1.5
9	800	3/16	25	RR	SNG-8	319.0	327.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.0	320.8	5.0
10	800	3/20	25	LR	SNG-8	317.1	327.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.8	319.7	1.1

Comments:
1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2024 (3) Sponsor Code 7928/42 Test No. 4S0004 Convoy R202

Inv.No. M1423 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	GSS	Avg	Loss
1	800	2/20	25	RF	SNG-8	343.3	345.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	341.1	343.3	
2	800	2/22	25	LF	SNG-8	341.1	344.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.1	341.5	1.8
3	800	2/27	26	RF	SNG-8	339.6	343.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.6	340.1	1.4
4	800	2/29	25	LF	SNG-8	336.0	342.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.1	338.1	2.0
5	800	3/ 2	26	RF	SNG-8	332.0	338.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.5	334.2	3.9
6	800	3/ 8	25	LF	SNG-8	330.8	335.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3	332.4	1.8
7	800	3/12	25	RF	SNG-8	332.0	336.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.0	332.2	0.2
8	800	3/14	26	LF	SNG-8	327.6	335.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.1	329.6	2.6
9	800	3/16	25	RF	SNG-8	327.6	332.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.6	327.7	1.9
10	800	3/20	25	LF	SNG-8	325.1	330.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.1	326.0	1.7

Comments:
1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.
10)
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 200M (3) Sponsor Code 7928/42 Test No. 450004 Convoy R202

Inv.No. M1424 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	25	LF	SNG-8	344.5	347.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	341.5	344.3	
2	800	2/22	25	RF	SNG-8	341.0	345.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	341.3	342.7	1.6
3	800	2/27	25	LF	SNG-8	337.1	342.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.8	339.4	3.3
4	800	2/29	26	RF	SNG-8	336.1	343.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.6	338.7	0.7
5	800	3/ 2	26	LF	SNG-8	332.5	338.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	333.6	334.9	3.8
6	800	3/ 8	25	RF	SNG-8	330.6	333.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.5	333.5	1.4
7	800	3/12	25	LF	SNG-8	330.0	337.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.0	332.2	1.3
8	800	3/14	26	RF	SNG-8	325.0	335.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.1	329.2	3.0
9	800	3/16	26	LF	SNG-8	321.5	331.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.1	325.5	3.7
10	800	3/20	25	RF	SNG-8	321.0	330.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.1	324.9	0.6

Comments:
1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2326 (4) Sponsor Code 7928/43 Test No. 450004 Convoy R202

Inv.No. G1431 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	26	LR	SNG-8	300.1	284.5	289.0	0.0	0.0	0.0	0.0	0.0	0.0	298.0	292.9	
2	800	2/22	25	RR	SNG-8	293.3	280.1	283.2	0.0	0.0	0.0	0.0	0.0	0.0	293.0	287.5	5.4
3	800	2/27	25	LR	SNG-8	289.6	274.3	279.5	0.0	0.0	0.0	0.0	0.0	0.0	289.0	283.1	4.4
4	800	2/25	26	RR	SNG-8	287.1	274.0	278.0	0.0	0.0	0.0	0.0	0.0	0.0	286.3	281.4	1.7
5	800	3/ 2	26	LR	SNG-8	285.0	272.1	277.5	0.0	0.0	0.0	0.0	0.0	0.0	283.0	279.4	2.0
6	800	3/ 8	25	RR	SNG-8	281.8	269.0	273.6	0.0	0.0	0.0	0.0	0.0	0.0	279.6	276.0	3.4
7	800	3/12	25	LR	SNG-8	281.0	267.6	274.5	0.0	0.0	0.0	0.0	0.0	0.0	277.3	275.2	0.8
8	800	3/14	25	RR	SNG-8	276.5	262.5	269.0	0.0	0.0	0.0	0.0	0.0	0.0	275.8	271.0	4.2
9	800	3/16	24	LR	SNG-8	275.3	260.3	266.6	0.0	0.0	0.0	0.0	0.0	0.0	271.6	268.5	2.5
10	800	3/20	25	RR	SNG-8	271.8	257.6	264.3	0.0	0.0	0.0	0.0	0.0	0.0	267.6	265.4	3.1

Comments:
1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2020 (4) Sponsor Code 7929/43 Test No. 450004 Convoy R202

Inv.No. G1432 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	GSS	Avg	Loss
1	600	2/20	26	RR	SNG-8	297.1	293.5	288.8	0.0	0.0	0.0	0.0	0.0	0.0	296.3	291.5	
2	800	2/22	25	LR	SNG-8	292.5	278.3	281.5	0.0	0.0	0.0	0.0	0.0	0.0	292.0	286.1	5.4
3	800	2/27	25	RR	SNG-8	286.6	274.8	279.8	0.0	0.0	0.0	0.0	0.0	0.0	288.6	282.5	3.6
4	800	2/29	26	LR	SNG-8	286.0	272.6	278.5	0.0	0.0	0.0	0.0	0.0	0.0	286.5	280.9	1.6
5	800	3/ 2	26	RR	SNG-8	294.2	266.5	276.6	0.0	0.0	0.0	0.0	0.0	0.0	283.1	277.8	3.1
6	800	3/ 5	25	LR	SNG-8	293.3	265.6	272.6	0.0	0.0	0.0	0.0	0.0	0.0	290.8	275.6	2.2
7	800	3/12	26	RR	SNG-8	281.0	263.6	271.6	0.0	0.0	0.0	0.0	0.0	0.0	277.0	273.3	2.3
8	800	3/14	26	LR	SNG-8	277.3	260.1	270.5	0.0	0.0	0.0	0.0	0.0	0.0	276.5	271.2	2.1
9	800	3/16	25	RR	SNG-8	274.3	256.1	266.5	0.0	0.0	0.0	0.0	0.0	0.0	273.6	267.7	3.5
10	800	3/20	25	LR	SNG-8	272.6	254.1	264.5	0.0	0.0	0.0	0.0	0.0	0.0	269.8	265.3	2.4

Comments:
1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2026 (4) Sponsor Code 7928/43 Test No. 450004 Convoy R202

Inv.No. G1433 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	2/20	26	RF	SNG-9	297.3	287.3	290.0	0.0	0.0	0.0	0.0	0.0	0.0	299.6	293.6	
2	800	2/22	26	LF	SNG-8	294.3	284.0	286.5	0.0	0.0	0.0	0.0	0.0	0.0	294.0	289.7	3.9
3	800	2/27	25	RF	SNG-8	289.8	280.0	283.1	0.0	0.0	0.0	0.0	0.0	0.0	289.6	285.7	4.0
4	800	2/29	26	LF	SNG-8	289.5	278.0	281.6	0.0	0.0	0.0	0.0	0.0	0.0	285.8	283.8	1.9
5	800	3/ 2	26	RF	SNG-8	287.6	275.1	279.3	0.0	0.0	0.0	0.0	0.0	0.0	285.3	281.9	1.9
6	800	3/ 8	25	LF	SNG-9	286.3	273.8	275.8	0.0	0.0	0.0	0.0	0.0	0.0	280.6	279.2	2.7
7	800	3/12	26	RF	SNG-8	284.0	272.0	274.6	0.0	0.0	0.0	0.0	0.0	0.0	279.3	277.5	1.7
8	800	3/14	25	LF	SNG-8	281.5	268.6	271.5	0.0	0.0	0.0	0.0	0.0	0.0	274.5	274.0	3.5
9	800	3/16	26	RF	SNG-8	278.6	265.1	269.6	0.0	0.0	0.0	0.0	0.0	0.0	270.1	270.9	3.1
10	800	3/20	25	LF	SNG-6	275.6	261.5	266.5	0.0	0.0	0.0	0.0	0.0	0.0	268.0	267.9	3.0

Comments:
1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2010 (4) Sponsor Code 7926/43 Test No. 450004 Convoy R202

Inv.No. G1434 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	500	2/20	26	LF	SNG-8	310.1	289.3	295.1	0.0	0.0	0.0	0.0	0.0	0.0	311.0	301.4	
2	800	2/22	26	RF	SNG-8	307.6	286.6	292.5	0.0	0.0	0.0	0.0	0.0	0.0	309.0	299.7	2.7
3	800	2/27	25	LF	SNG-8	304.6	280.5	289.1	0.0	0.0	0.0	0.0	0.0	0.0	301.3	294.0	4.7
4	800	2/29	26	RF	SNG-8	302.3	281.1	287.5	0.0	0.0	0.0	0.0	0.0	0.0	300.5	292.9	1.1
5	500	3/ 2	25	LF	SNG-8	299.6	276.5	296.3	0.0	0.0	0.0	0.0	0.0	0.0	297.3	290.0	2.9
6	800	3/ 8	25	RF	SNG-8	298.1	275.1	283.8	0.0	0.0	0.0	0.0	0.0	0.0	295.6	288.2	1.8
7	800	3/12	26	LF	SNG-8	296.3	272.0	278.6	0.0	0.0	0.0	0.0	0.0	0.0	291.6	284.7	3.5
8	800	3/14	26	RF	SNG-8	293.0	268.6	276.8	0.0	0.0	0.0	0.0	0.0	0.0	290.8	282.4	2.3
9	800	3/16	25	LF	SNG-8	292.1	266.5	276.0	0.0	0.0	0.0	0.0	0.0	0.0	287.0	280.4	2.0
10	800	3/20	25	RF	SNG-8	288.6	263.5	275.5	0.0	0.0	0.0	0.0	0.0	0.0	284.6	278.1	2.3

Comments:

1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2028 (5) Sponsor Code 7928/44 Test No. 450004 Convoy R202

Inv.No. E1441 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	600	2/20	22	LR	SNG-8	303.5	313.0	310.8	0.0	0.0	0.0	0.0	0.0	0.0	302.0	307.3	
2	600	2/22	25	RR	SNG-8	295.3	305.8	307.1	0.0	0.0	0.0	0.0	0.0	0.0	297.8	301.5	5.8
3	800	2/27	25	LR	SNG-8	293.6	300.0	300.0	0.0	0.0	0.0	0.0	0.0	0.0	290.3	294.8	6.7
4	800	2/29	26	RR	SNG-9	278.3	295.6	297.6	0.0	0.0	0.0	0.0	0.0	0.0	287.8	289.9	4.9
5	800	3/ 2	26	LR	SNG-8	275.5	291.1	293.5	0.0	0.0	0.0	0.0	0.0	0.0	283.6	286.0	3.9
6	800	3/ 8	25	RR	SNG-8	271.0	286.8	289.6	0.0	0.0	0.0	0.0	0.0	0.0	281.0	282.1	3.9
7	800	3/12	26	LR	SNG-8	267.3	285.0	287.6	0.0	0.0	0.0	0.0	0.0	0.0	276.1	279.3	2.8
8	800	3/14	25	RR	SNG-9	263.3	280.1	284.1	0.0	0.0	0.0	0.0	0.0	0.0	272.6	275.1	4.2
9	800	3/16	25	LR	SNG-8	259.3	276.5	279.6	0.0	0.0	0.0	0.0	0.0	0.0	267.6	270.8	4.3
10	800	3/20	25	RR	SNG-8	256.5	274.6	277.6	0.0	0.0	0.0	0.0	0.0	0.0	263.6	268.1	2.7

Comments:
1 144 WET MILES.
2 50 WET MILES.
7 244 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2028 (3) Sponsor Code 7923/44 Test No. 450004 Convoy R202

Inv.No. 31442 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	500	2/20	23	RR	SNG-8	301.9	310.6	310.3	0.0	0.0	0.0	0.0	0.0	0.0	304.6	306.9	
2	500	2/22	25	LR	SNG-8	294.5	304.8	305.3	0.0	0.0	0.0	0.0	0.0	0.0	301.0	301.4	5.5
3	800	2/27	25	RR	SNG-8	287.6	297.5	298.5	0.0	0.0	0.0	0.0	0.0	0.0	291.1	293.7	7.7
4	800	2/29	26	LR	SNG-8	282.3	294.6	295.0	0.0	0.0	0.0	0.0	0.0	0.0	288.8	290.2	3.5
5	800	3/ 2	25	RR	SNG-8	276.5	289.6	291.8	0.0	0.0	0.0	0.0	0.0	0.0	285.5	286.1	4.1
6	800	3/ 5	25	LR	SNG-8	273.5	286.8	289.5	0.0	0.0	0.0	0.0	0.0	0.0	283.1	283.3	2.8
7	800	3/12	26	RR	SNG-8	267.6	285.3	285.6	0.0	0.0	0.0	0.0	0.0	0.0	279.6	279.6	3.7
8	800	3/14	26	LR	SNG-8	266.0	279.5	283.0	0.0	0.0	0.0	0.0	0.0	0.0	274.3	275.7	3.9
9	800	3/16	25	RR	SNG-8	260.5	274.6	278.8	0.0	0.0	0.0	0.0	0.0	0.0	272.0	271.5	4.2
10	800	3/20	25	LR	SNG-8	255.6	272.1	274.3	0.0	0.0	0.0	0.0	0.0	0.0	269.1	267.8	3.7

Comments:
1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.
Psi: Post-run inflation. Inspection Psi = 25 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2025 (5) Sponsor Code 7929/44 Test No. 450004 Convoy R202

Inv.No. E1443 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	RF	SNG-8	302.0	309.0	307.8	0.0	0.0	0.0	0.0	0.0	0.0	300.3	304.8	
2	800	2/22	26	LF	SNG-8	295.1	304.0	303.5	0.0	0.0	0.0	0.0	0.0	0.0	297.1	300.0	4.8
3	800	2/27	25	RF	SNG-8	286.6	297.1	296.3	0.0	0.0	0.0	0.0	0.0	0.0	290.8	292.8	7.2
4	800	2/29	26	LF	SNG-8	282.6	294.5	295.8	0.0	0.0	0.0	0.0	0.0	0.0	289.8	290.7	2.1
5	800	3/ 2	25	RF	SNG-8	278.8	293.6	293.6	0.0	0.0	0.0	0.0	0.0	0.0	285.0	287.8	2.9
6	800	3/ 8	25	LF	SNG-8	274.8	288.0	289.0	0.0	0.0	0.0	0.0	0.0	0.0	281.8	283.4	4.4
7	800	3/12	26	RF	SNG-8	272.0	284.0	286.0	0.0	0.0	0.0	0.0	0.0	0.0	277.5	279.9	3.5
8	800	3/14	26	LF	SNG-8	267.6	281.5	282.3	0.0	0.0	0.0	0.0	0.0	0.0	273.1	276.2	3.7
9	800	3/16	25	RF	SNG-8	262.9	277.1	281.1	0.0	0.0	0.0	0.0	0.0	0.0	268.3	272.4	3.8
10	800	3/20	25	LF	SNG-8	260.0	274.1	278.1	0.0	0.0	0.0	0.0	0.0	0.0	266.6	269.8	2.6

Comments:
1 144 WET MILES.
5 50 WET MILES.
7 244 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 2025 (5) Sponsor Code 7923/44 Test No. 450004 Convoy R202

Inv.No. B1444 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	2/20	24	LF	SNG-8	300.3	306.0	309.5	0.0	0.0	0.0	0.0	0.0	0.0	300.0	304.0	
2	800	2/22	25	RF	SNG-8	294.3	303.5	303.3	0.0	0.0	0.0	0.0	0.0	0.0	296.1	299.3	4.7
3	800	2/27	25	LF	SNG-8	286.5	297.6	296.8	0.0	0.0	0.0	0.0	0.0	0.0	288.8	292.5	6.8
4	800	2/29	26	RF	SNG-8	280.3	294.3	296.3	0.0	0.0	0.0	0.0	0.0	0.0	285.6	289.2	3.3
5	800	3/ 2	25	LF	SNG-8	278.0	291.0	292.6	0.0	0.0	0.0	0.0	0.0	0.0	282.9	286.1	3.1
6	800	3/ 8	25	RF	SNG-8	274.0	288.5	286.0	0.0	0.0	0.0	0.0	0.0	0.0	278.5	282.3	3.8
7	800	3/12	26	LF	SNG-8	271.0	285.3	286.3	0.0	0.0	0.0	0.0	0.0	0.0	274.6	279.3	3.0
8	800	3/14	26	RF	SNG-8	267.0	281.1	281.6	0.0	0.0	0.0	0.0	0.0	0.0	270.6	275.1	4.2
9	800	3/16	25	LF	SNG-9	263.3	276.5	279.3	0.0	0.0	0.0	0.0	0.0	0.0	267.0	271.5	3.6
10	800	3/20	25	RF	SNG-8	261.0	274.0	276.5	0.0	0.0	0.0	0.0	0.0	0.0	263.3	268.7	2.8

Comments:

1 144 WET MILES.
3 50 WET MILES.
7 244 WET MILES.
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

PHASE II

S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 2
REF NO. NRC002 TEST 450005 Date 5/ 9/94
CONVOY 103 COURSE MONITORING TIRES (CMT) CMT / CMTXXXXX

Date:	5/10	5/15	5/17	5/21	5/23	5/25	5/29	5/31	6/ 4	6/ 6
	6/ 7	6/11	6/13	6/15	6/18	6/20	6/26	6/28	6/30	7/ 3
	7/ 6									
Miles:	8000	8800	9600	10400	11200	12000	12800	13600	14400	15200
	16000	16800	17600	18400	19200	20000	20800	21600	22400	23200
	24000									
Tire	- - - - - - W E A R -									
11111	306.0	306.9	307.1	307.3	306.8	307.1	307.1	307.6	308.6	306.6
	306.8	306.8	306.2	306.8	306.5	306.2	306.3	306.3	306.0	306.7
	306.4									

Intercept a 307.15
Wear Rate b 0.05

22222	304.7	305.4	305.4	306.2	305.7	305.9	306.2	306.1	306.6	305.8
	304.8	306.1	304.6	305.7	305.7	305.9	305.8	305.0	305.7	305.8
	306.0									

Intercept a 305.62
Wear Rate b 0.00

Average Intercept 306.390
Average Wear 0.030 Base Wear Rate 00.03 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 24000 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/51							
	- 1	2.70	343.86	2.70	112393	374.6	370
	- 2	2.75	344.33	2.75	110665	368.9	360
	- 3	2.80	345.86	2.80	109379	364.6	360
	- 4	2.77	345.74	2.77	110433	368.1	360
7928/52							
	- 1	2.84	322.98	2.84	99894	333.0	330
	- 2	3.43	318.75	3.43	82857	276.2	270
	- 3	2.80	325.71	2.80	102182	340.6	340
	- 4	3.41	318.86	3.41	83326	277.8	270

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

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             SOUTHWEST RESEARCH INSTITUTE                      Page: MDF-2
               San Antonio, Texas 78284
                                                     Project: 6-7928-  2
        M E A S U R E M E N T   D A T A   F I L E

Test 450005 Convoy 103   Candidate Group 103X   Ref.*NRD002
                                                       7929/51

Date:     5/10  5/15  5/17  5/21  5/23  5/25  5/29  5/31  6/ 4  6/ 6
          6/ 7  6/11  6/13  6/15  6/18  6/20  6/26  6/28  6/30  7/ 3
          7/ 6
Miles:    8000  8800  9600 10400 11200 12000 12800 13600 14400 15200
         16000 16800 17600 18400 19200 20000 20800 21600 22400 23200
         24000
TIRE     - - - - - - W E A R - - - - - - - - - - - - - - - - - - -
1111     343.0 342.7 339.5 337.2 334.8 332.9 330.3 329.8 326.9 324.6
         321.3 320.6 317.9 315.8 313.8 311.6 308.5 307.2 305.1 302.9
         300.5
                                                     Intercept a 343.86
                                                     Wear Rate b   2.70

1112     344.1 341.6 341.0 337.3 335.0 333.0 331.5 329.7 327.0 324.9
         321.9 320.0 318.5 315.7 313.9 311.1 308.2 307.4 304.5 302.2
         300.9
                                                     Intercept a 344.33
                                                     Wear Rate b   2.75

1113     344.4 343.4 342.1 338.8 336.8 335.6 332.3 330.9 328.4 326.3
         323.0 321.7 318.6 317.1 314.3 312.4 309.7 308.0 305.5 303.1
         300.8
                                                     Intercept a 345.36
                                                     Wear Rate b   2.80

1114     345.0 343.7 342.1 339.5 337.0 334.8 331.9 330.1 328.2 326.5
         323.0 321.6 318.7 316.5 314.8 312.5 310.3 308.4 305.5 303.0
         302.7
                                                     Intercept a 345.74
                                                     Wear Rate b   2.77

Tire Size P195/75R14SL
Dimensions at 26  psi on 14 X 6   Rim.

                        Meas.
Tire          Date      After   Miles     CD     CSW     CP%    Hardness
1111        5/10/84     8I       8000   25.27   7.80   169.9       67
1111        7/ 6/84     20      24000    0.00   0.00     0.0       71

1112        5/10/84     8I       8000   25.23   7.75   170.7       67
1112        7/ 6/84     20      24000    0.00   0.00     0.0       71

1113        5/10/84     8I       8000   25.27   7.75   167.6       67
1113        7/ 6/84     20      24000    0.00   0.00     0.0       71

1114        5/10/84     8I       8000   25.27   7.75   175.6       68
1114        7/ 6/84     20      24000    0.00   0.00     0.0       71
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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 2

M E A S U R E M E N T D A T A F I L E

Test 4S0005 Convoy 103 Candidate Group 103M Ref.#NRD002
7928/52

Date:	5/10	5/15	5/17	5/21	5/23	5/25	5/29	5/31	6/ 4	6/ 6
	6/ 7	6/11	6/13	6/15	6/18	6/20	6/26	6/28	6/30	7/ 3
	7/ 6									
Miles:	8000	8300	9600	10400	11200	12000	12800	13600	14400	15200
	16000	16800	17600	18400	19200	20000	20800	21600	22400	23200
	24000									
TIRE	- - - - - - W E A R -									
1121	322.8	320.7	318.2	316.1	314.5	312.1	308.2	307.2	304.4	303.7
	299.8	299.5	295.6	294.2	289.5	288.7	286.7	283.9	282.8	279.4
	277.9									
									Intercept a	322.99
									Wear Rate b	2.84
1122	317.8	315.9	313.7	309.9	307.8	305.3	302.0	300.2	297.4	294.5
	290.8	289.8	285.9	283.4	280.7	277.6	274.5	272.7	269.2	264.6
	264.6									
									Intercept a	318.76
									Wear Rate b	3.43
1123	324.9	323.7	321.8	319.6	316.6	314.6	310.4	310.4	308.7	306.0
	302.8	301.4	298.6	296.3	294.1	292.7	289.8	287.7	286.4	281.4
	281.1									
									Intercept a	325.71
									Wear Rate b	2.80
1124	318.6	314.2	313.3	310.3	308.2	307.6	301.7	301.2	297.3	294.7
	291.5	289.6	286.2	283.3	279.6	278.2	275.1	272.4	269.5	265.9
	265.2									
									Intercept a	318.86
									Wear Rate b	3.41

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 5 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
1121	5/10/84	BI	8000	25.41	8.00	151.2	68
1121	7/ 6/84	20	24000	0.00	0.00	0.0	72
1122	5/10/84	BI	8000	25.41	7.95	160.4	71
1122	7/ 6/84	20	24000	0.00	0.00	0.0	78
1123	5/10/84	BI	8000	25.40	8.00	155.6	69
1123	7/ 6/84	20	24000	0.00	0.00	0.0	72
1124	5/10/84	BI	8000	25.41	8.00	156.3	71
1124	7/ 6/84	20	24000	0.00	0.00	0.0	79

T R E A D L O S S S U M M A R Y

Group 103X (2) Sponsor Code 7928/51 Test No. 450005 Convoy 103

Inv.No. 1111 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	8000	5/10	26	RR	SNG-8	355.1	332.0	330.1	0.0	0.0	0.0	0.0	0.0	0.0	354.5	343.0	
2	800	5/15	25	LR	SNG-8	353.8	331.1	330.6	0.0	0.0	0.0	0.0	0.0	0.0	355.0	342.7	0.3
3	800	5/17	26	RR	SNG-8	349.5	327.8	329.8	0.0	0.0	0.0	0.0	0.0	0.0	352.1	339.8	2.9
4	800	5/21	26	LR	SNG-8	345.8	327.3	326.6	0.0	0.0	0.0	0.0	0.0	0.0	349.0	337.2	2.6
5	800	5/23	26	RR	SNG-8	344.8	325.3	324.0	0.0	0.0	0.0	0.0	0.0	0.0	345.1	334.8	2.4
6	800	5/25	26	LR	SNG-8	342.1	323.3	322.3	0.0	0.0	0.0	0.0	0.0	0.0	343.6	332.9	1.9
7	800	5/29	26	RR	SNG-8	339.8	321.1	320.0	0.0	0.0	0.0	0.0	0.0	0.0	340.3	330.3	2.6
8	800	5/31	26	LR	SNG-8	339.1	319.8	321.1	0.0	0.0	0.0	0.0	0.0	0.0	339.1	329.8	0.5
9	800	6/ 4	26	RR	SNG-8	334.3	318.1	317.3	0.0	0.0	0.0	0.0	0.0	0.0	337.6	326.9	2.9
10	800	6/ 6	26	LR	SNG-8	332.5	316.1	315.8	0.0	0.0	0.0	0.0	0.0	0.0	333.8	324.6	2.3
11	800	6/ 7	26	RR	SNG-8	329.8	313.3	312.0	0.0	0.0	0.0	0.0	0.0	0.0	329.8	321.3	3.3
12	800	6/11	25	LR	SNG-8	327.5	313.6	311.8	0.0	0.0	0.0	0.0	0.0	0.0	329.5	320.6	0.7
13	800	6/13	26	RR	SNG-8	327.6	310.3	307.6	0.0	0.0	0.0	0.0	0.0	0.0	326.0	317.9	2.7
14	800	6/15	26	LR	SNG-8	323.0	308.8	307.3	0.0	0.0	0.0	0.0	0.0	0.0	324.1	315.8	2.1
15	800	6/18	26	RR	SNG-8	322.5	306.5	305.6	0.0	0.0	0.0	0.0	0.0	0.0	320.6	313.8	2.0
16	800	6/20	26	LR	SNG-8	319.0	304.5	304.3	0.0	0.0	0.0	0.0	0.0	0.0	318.6	311.6	2.2
17	800	6/26	26	RR	SNG-8	316.1	302.3	300.0	0.0	0.0	0.0	0.0	0.0	0.0	315.5	308.5	3.1
18	800	6/28	26	LR	SNG-8	312.8	301.3	301.0	0.0	0.0	0.0	0.0	0.0	0.0	313.5	307.2	1.3
19	800	6/30	26	RR	SNG-8	311.8	299.1	298.0	0.0	0.0	0.0	0.0	0.0	0.0	311.5	305.1	2.1
20	800	7/ 3	26	LR	SNG-8	308.5	297.6	295.6	0.0	0.0	0.0	0.0	0.0	0.0	309.6	302.9	2.2
21	800	7/ 6	26	RR	SNG-8	306.1	295.6	293.6	0.0	0.0	0.0	0.0	0.0	0.0	306.6	300.5	2.4

Comments:

3 103 WET MILES.
4 227 WET MILES.
6 9 WET MILES.
7 30 WET MILES.
10 77 WET MILES.
14 17 WET MILES
18 8 WET MILES
19 119 WET MILES.
20 37 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 103X (2) Sponsor Code 7928/51 Test No. 4S0005 Convoy 103

Inv.No. 1112 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	8000	5/10	26	LR	SNG-8	354.1	331.8	331.3	0.0	0.0	0.0	0.0	0.0	0.0	359.0	344.1	
2	800	5/15	26	RR	SNG-8	350.6	330.0	329.0	0.0	0.0	0.0	0.0	0.0	0.0	356.6	341.6	2.5
3	800	5/17	25	LR	SNG-8	350.1	329.5	327.8	0.0	0.0	0.0	0.0	0.0	0.0	356.3	341.0	0.6
4	800	5/21	26	RR	SNG-8	347.6	326.1	324.1	0.0	0.0	0.0	0.0	0.0	0.0	351.1	337.3	3.7
5	800	5/23	25	LR	SNG-8	344.5	323.5	322.6	0.0	0.0	0.0	0.0	0.0	0.0	349.3	335.0	2.3
6	800	5/25	26	RR	SNG-8	342.0	322.8	320.5	0.0	0.0	0.0	0.0	0.0	0.0	346.8	333.0	2.0
7	800	5/29	26	LR	SNG-8	341.8	320.3	319.1	0.0	0.0	0.0	0.0	0.0	0.0	344.8	331.5	1.5
8	800	5/31	26	RR	SNG-8	339.6	318.8	317.6	0.0	0.0	0.0	0.0	0.0	0.0	342.6	329.7	1.8
9	800	6/ 4	25	LR	SNG-8	335.1	316.8	316.3	0.0	0.0	0.0	0.0	0.0	0.0	339.5	327.0	2.7
10	800	6/ 6	26	RR	SNG-8	333.5	314.3	314.0	0.0	0.0	0.0	0.0	0.0	0.0	337.8	324.9	2.1
11	800	6/ 7	26	LR	SNG-8	331.8	311.3	309.6	0.0	0.0	0.0	0.0	0.0	0.0	334.8	321.9	3.0
12	800	6/11	25	RR	SNG-8	328.5	309.6	309.5	0.0	0.0	0.0	0.0	0.0	0.0	332.1	320.0	1.9
13	800	6/13	26	LR	SNG-8	328.1	308.0	307.8	0.0	0.0	0.0	0.0	0.0	0.0	329.8	318.5	1.5
14	800	6/15	26	RR	SNG-8	324.3	306.3	304.8	0.0	0.0	0.0	0.0	0.0	0.0	327.1	315.7	2.8
15	800	6/18	26	LR	SNG-8	323.0	303.8	302.8	0.0	0.0	0.0	0.0	0.0	0.0	325.8	313.9	1.8
16	800	6/20	26	RR	SNG-8	317.8	302.1	301.3	0.0	0.0	0.0	0.0	0.0	0.0	323.0	311.1	2.8
17	800	6/26	26	LR	SNG-8	315.0	298.8	298.5	0.0	0.0	0.0	0.0	0.0	0.0	320.5	308.2	2.9
18	800	6/29	25	RR	SNG-8	314.6	299.5	298.0	0.0	0.0	0.0	0.0	0.0	0.0	317.3	307.4	0.8
19	800	6/30	26	LR	SNG-8	311.1	297.6	293.8	0.0	0.0	0.0	0.0	0.0	0.0	315.3	304.5	2.9
20	800	7/ 3	26	RR	SNG-8	309.3	293.3	292.8	0.0	0.0	0.0	0.0	0.0	0.0	313.1	302.2	2.3
21	800	7/ 6	26	LR	SNG-8	308.5	294.1	291.1	0.0	0.0	0.0	0.0	0.0	0.0	309.8	300.9	1.3

Comments:

3 103 WET MILES.
4 227 WET MILES.
6 9 WET MILES.
7 30 WET MILES.
10 77 WET MILES.
14 17 WET MILES
18 8 WET MILES
19 119 WET MILES.
20 37 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 103X (2) Sponsor Code 7928/51

Test No. 4S0005 Convoy 103

Inv.No. 1113 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	8000	5/10	26	LF	SNG-8	354.5	333.1	333.0	0.0	0.0	0.0	0.0	0.0	0.0	357.0	344.4	
2	800	5/15	26	RF	SNG-8	352.8	332.8	334.3	0.0	0.0	0.0	0.0	0.0	0.0	353.5	343.4	1.0
3	800	5/17	26	LF	SNG-8	352.1	330.5	331.8	0.0	0.0	0.0	0.0	0.0	0.0	354.0	342.1	1.3
4	800	5/21	25	RF	SNG-8	346.6	328.3	329.3	0.0	0.0	0.0	0.0	0.0	0.0	350.8	338.8	3.3
5	800	5/23	26	LF	SNG-8	345.1	326.0	327.8	0.0	0.0	0.0	0.0	0.0	0.0	348.3	336.8	2.0
6	800	5/25	26	RF	SNG-8	342.6	325.6	327.6	0.0	0.0	0.0	0.0	0.0	0.0	346.5	335.6	1.2
7	800	5/29	26	LF	SNG-8	340.3	323.0	323.1	0.0	0.0	0.0	0.0	0.0	0.0	342.5	332.3	3.3
8	800	5/31	26	RF	SNG-8	338.0	321.1	322.3	0.0	0.0	0.0	0.0	0.0	0.0	342.0	330.9	1.4
9	800	6/ 4	26	LF	SNG-8	335.8	319.3	319.3	0.0	0.0	0.0	0.0	0.0	0.0	339.1	328.4	2.5
10	800	6/ 6	25	RF	SNG-8	332.5	317.1	319.3	0.0	0.0	0.0	0.0	0.0	0.0	336.1	326.3	2.1
11	800	6/ 7	26	LF	SNG-8	329.6	313.0	316.5	0.0	0.0	0.0	0.0	0.0	0.0	332.8	323.0	3.3
12	800	6/11	25	RF	SNG-8	329.1	310.5	315.3	0.0	0.0	0.0	0.0	0.0	0.0	331.6	321.7	1.3
13	800	6/13	26	LF	SNG-8	324.6	309.0	312.3	0.0	0.0	0.0	0.0	0.0	0.0	328.3	318.6	3.1
14	800	6/15	25	RF	SNG-8	321.8	308.1	311.1	0.0	0.0	0.0	0.0	0.0	0.0	327.1	317.1	1.5
15	800	6/18	26	LF	SNG-8	320.0	306.1	308.3	0.0	0.0	0.0	0.0	0.0	0.0	322.6	314.3	2.8
16	800	6/20	26	RF	SNG-8	317.3	304.1	306.6	0.0	0.0	0.0	0.0	0.0	0.0	321.3	312.4	1.9
17	800	6/26	26	LF	SNG-8	314.5	302.3	303.3	0.0	0.0	0.0	0.0	0.0	0.0	318.5	309.7	2.7
18	800	6/28	26	RF	SNG-8	312.6	299.8	302.0	0.0	0.0	0.0	0.0	0.0	0.0	317.3	308.0	1.7
19	800	6/30	26	LF	SNG-8	309.0	298.1	301.1	0.0	0.0	0.0	0.0	0.0	0.0	313.5	305.5	2.5
20	800	7/ 3	26	RF	SNG-8	307.3	296.6	298.1	0.0	0.0	0.0	0.0	0.0	0.0	310.3	303.1	2.4
21	800	7/ 6	26	LF	SNG-8	305.1	293.5	297.0	0.0	0.0	0.0	0.0	0.0	0.0	307.6	300.8	2.3

Comments:

3 103 WET MILES.
4 227 WET MILES.
6 9 WET MILES.
7 30 WET MILES.
10 77 WET MILES.
14 17 WET MILES
18 8 WET MILES
19 119 WET MILES.
20 37 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 103X (2) Sponsor Code 7928/51 Test No. 4S0005 Convoy 103

Inv.No. 1114 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	8000	5/10	26	RF	SNG-8	353.1	334.1	334.3	0.0	0.0	0.0	0.0	0.0	0.0	358.1	345.0	
2	800	5/15	26	LF	SNG-8	351.1	332.6	334.1	0.0	0.0	0.0	0.0	0.0	0.0	356.6	343.7	1.3
3	800	5/17	26	RF	SNG-8	349.6	330.8	332.3	0.0	0.0	0.0	0.0	0.0	0.0	355.5	342.1	1.6
4	800	5/21	26	LF	SNG-8	347.3	328.3	330.8	0.0	0.0	0.0	0.0	0.0	0.0	351.5	339.5	2.6
5	800	5/23	26	RF	SNG-8	343.8	327.8	327.1	0.0	0.0	0.0	0.0	0.0	0.0	349.0	337.0	2.5
6	800	5/25	26	LF	SNG-8	342.1	324.8	325.8	0.0	0.0	0.0	0.0	0.0	0.0	346.1	334.8	2.2
7	800	5/29	26	RF	SNG-8	339.0	323.1	320.8	0.0	0.0	0.0	0.0	0.0	0.0	344.6	331.9	2.9
8	800	5/31	26	LF	SNG-8	335.8	321.5	321.8	0.0	0.0	0.0	0.0	0.0	0.0	341.1	330.1	1.8
9	800	6/ 4	26	RF	SNG-8	333.1	319.3	321.3	0.0	0.0	0.0	0.0	0.0	0.0	339.0	328.2	1.9
10	800	6/ 6	26	LF	SNG-8	332.8	318.1	318.5	0.0	0.0	0.0	0.0	0.0	0.0	336.5	326.5	1.7
11	800	6/ 7	25	RF	SNG-8	329.1	313.6	315.6	0.0	0.0	0.0	0.0	0.0	0.0	333.5	323.0	3.5
12	800	6/11	26	LF	SNG-8	325.8	313.5	315.0	0.0	0.0	0.0	0.0	0.0	0.0	332.0	321.6	1.4
13	800	6/13	26	RF	SNG-8	323.0	311.1	312.3	0.0	0.0	0.0	0.0	0.0	0.0	328.3	318.7	2.9
14	800	6/15	26	LF	SNG-8	321.0	309.5	308.8	0.0	0.0	0.0	0.0	0.0	0.0	326.6	316.5	2.2
15	800	6/18	26	RF	SNG-8	320.1	308.1	307.0	0.0	0.0	0.0	0.0	0.0	0.0	324.0	314.8	1.7
16	800	6/20	25	LF	SNG-8	316.8	305.3	306.3	0.0	0.0	0.0	0.0	0.0	0.0	321.6	312.5	2.3
17	800	6/26	26	RF	SNG-8	314.0	304.6	304.8	0.0	0.0	0.0	0.0	0.0	0.0	317.5	310.3	2.2
18	800	6/28	25	LF	SNG-8	312.0	302.6	302.0	0.0	0.0	0.0	0.0	0.0	0.0	316.8	308.4	1.9
19	800	6/30	26	RF	SNG-8	308.1	299.0	301.0	0.0	0.0	0.0	0.0	0.0	0.0	314.0	305.5	2.9
20	800	7/ 3	26	LF	SNG-8	308.0	297.3	297.3	0.0	0.0	0.0	0.0	0.0	0.0	309.5	303.0	2.5
21	800	7/ 6	26	RF	SNG-8	306.1	296.6	298.5	0.0	0.0	0.0	0.0	0.0	0.0	309.5	302.7	0.3

Comments:

3 103 WET MILES.
4 227 WET MILES.
6 9 WET MILES.
7 30 WET MILES.
10 77 WET MILES.
14 17 WET MILES
18 8 WET MILES
19 119 WET MILES.
20 37 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 103M (3) Sponsor Code 7928/52 Test No. 4S0005 Convoy 103

Inv.No. 1121 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	8000	5/10	26	RR	SNG-8	319.3	328.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.0	322.8	
2	800	5/15	26	LR	SNG-8	315.5	327.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.8	320.7	2.1
3	800	5/17	26	RR	SNG-8	313.6	324.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.3	318.2	2.5
4	800	5/21	26	LR	SNG-8	312.8	324.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	311.3	316.1	2.1
5	800	5/23	25	RR	SNG-8	309.8	324.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	309.6	314.5	1.6
6	800	5/25	26	LR	SNG-8	307.5	321.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	307.0	312.1	2.4
7	800	5/29	25	RR	SNG-8	304.0	318.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302.3	308.2	3.9
8	800	5/31	26	LR	SNG-8	301.5	317.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303.1	307.2	1.0
9	800	6/ 4	26	RR	SNG-8	299.1	313.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300.6	304.4	2.8
10	800	6/ 6	26	LR	SNG-8	298.5	313.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	298.6	303.7	0.7
11	800	6/ 7	25	RR	SNG-8	293.5	310.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	295.5	299.8	3.9
12	800	6/11	26	LR	SNG-8	292.5	311.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	294.6	299.5	0.3
13	800	6/13	26	RR	SNG-8	288.0	306.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	292.3	295.6	3.9
14	800	6/15	26	LR	SNG-8	286.5	306.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	290.0	294.2	1.4
15	800	6/18	26	RR	SNG-8	281.6	302.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	284.5	289.5	4.7
16	800	6/20	26	LR	SNG-8	281.0	301.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.6	288.7	0.8
17	800	6/26	26	RR	SNG-8	278.1	299.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	282.0	286.7	2.0
18	800	6/28	26	LR	SNG-8	275.3	298.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	279.3	283.9	2.8
19	800	6/30	26	RR	SNG-8	274.1	297.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	277.1	282.8	1.1
20	800	7/ 3	26	LR	SNG-8	271.5	293.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	273.1	279.4	3.4
21	800	7/ 6	26	RR	SNG-8	271.5	292.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	269.6	277.9	1.5

Comments:

3 103 WET MILES.
4 227 WET MILES.
6 9 WET MILES.
7 30 WET MILES.
10 77 WET MILES.
14 17 WET MILES
18 8 WET MILES
19 119 WET MILES.
20 37 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 103M (3) Sponsor Code 7928/52

Test No. 4S0005 Convoy 103

Inv.No. 1122 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	8000	5/10	26	LR	SNG-8	314.8	324.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.1	317.8	
2	800	5/15	26	RR	SNG-8	314.0	322.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	311.1	315.9	1.9
3	800	5/17	26	LR	SNG-8	310.3	320.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	310.0	313.7	2.2
4	800	5/21	26	RR	SNG-8	307.0	316.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	306.1	309.9	3.8
5	800	5/23	25	LR	SNG-8	304.5	315.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303.1	307.8	2.1
6	800	5/25	26	RR	SNG-8	301.3	314.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	299.8	305.3	2.5
7	800	5/29	26	LR	SNG-8	298.0	311.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	296.8	302.0	3.3
8	800	5/31	26	RR	SNG-8	295.8	309.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	295.6	300.2	1.8
9	800	6/ 4	25	LR	SNG-8	292.8	307.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	292.3	297.4	2.8
10	800	6/ 6	26	RR	SNG-8	290.0	304.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	289.3	294.5	2.9
11	800	6/ 7	26	LR	SNG-8	286.0	301.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	285.0	290.8	3.7
12	800	6/11	26	RR	SNG-8	284.1	301.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.8	289.8	1.0
13	800	6/13	25	LR	SNG-8	280.5	297.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	280.0	285.9	3.9
14	800	6/15	26	RR	SNG-8	278.5	295.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	276.6	283.4	2.5
15	800	6/18	26	LR	SNG-8	275.8	292.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	273.5	280.7	2.7
16	800	6/20	26	RR	SNG-8	271.6	290.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	271.0	277.6	3.1
17	800	6/26	26	LR	SNG-8	268.0	287.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	268.3	274.5	3.1
18	800	6/28	26	RR	SNG-8	266.8	285.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	266.1	272.7	1.8
19	800	6/30	26	LR	SNG-8	263.0	283.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	261.5	269.2	3.5
20	800	7/ 3	26	RR	SNG-8	259.5	278.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	256.0	264.6	4.6
21	800	7/ 6	26	LR	SNG-8	257.5	278.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	258.0	264.6	0.0

Comments:

3 103 WET MILES.
4 227 WET MILES.
6 9 WET MILES.
7 30 WET MILES.
10 77 WET MILES.
14 17 WET MILES
18 8 WET MILES
19 119 WET MILES.
20 37 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 103M (3) Sponsor Code 7928/52 Test No. 4S0005 Convoy 103

Inv.No. 1123 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	8000	5/10	25	LF	SNG-8	320.5	330.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.0	324.9	
2	800	5/15	25	RF	SNG-8	318.6	328.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.6	323.7	1.2
3	800	5/17	26	LF	SNG-8	316.3	327.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.5	321.8	1.9
4	800	5/21	26	RF	SNG-8	314.0	324.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.1	319.6	2.2
5	800	5/23	26	LF	SNG-8	311.0	323.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.8	316.6	3.0
6	800	5/25	26	RF	SNG-8	308.3	320.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.5	314.6	2.0
7	800	5/29	26	LF	SNG-8	303.3	318.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	309.5	310.4	4.2
8	800	5/31	26	RF	SNG-8	304.1	318.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	309.0	310.4	0.0
9	800	6/ 4	25	LF	SNG-8	300.6	314.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	310.6	308.7	1.7
10	800	6/ 6	26	RF	SNG-8	296.8	314.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	307.0	306.0	2.7
11	800	6/ 7	25	LF	SNG-8	293.6	310.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	304.5	302.8	3.2
12	800	6/11	26	RF	SNG-8	291.8	310.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302.3	301.4	1.4
13	800	6/13	25	LF	SNG-8	289.1	306.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	299.8	298.6	2.8
14	800	6/15	25	RF	SNG-8	287.1	306.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	295.5	296.3	2.3
15	800	6/18	26	LF	SNG-8	285.0	302.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	294.5	294.1	2.2
16	800	6/20	26	RF	SNG-8	283.0	302.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	292.8	292.7	1.4
17	800	6/26	26	LF	SNG-8	279.0	300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	290.5	289.8	2.9
18	800	6/28	26	RF	SNG-8	278.3	297.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	287.3	287.7	2.1
19	800	6/30	26	LF	SNG-8	277.1	297.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	284.6	286.4	1.3
20	800	7/ 3	26	RF	SNG-8	271.0	291.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	281.5	281.4	5.0
21	800	7/ 6	26	LF	SNG-8	269.1	294.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	279.8	281.1	0.3

Comments:

3 103 WET MILES.
4 227 WET MILES.
6 9 WET MILES.
7 30 WET MILES.
10 77 WET MILES.
14 17 WET MILES
18 8 WET MILES
19 119 WET MILES.
20 37 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 103M (3) Sponsor Code 7928/52 Test No. 4S0005 Convoy 103

Inv.No. 1124 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	8000	5/10	26	RF	SNG-8	314.0	324.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	317.1	318.6	
2	800	5/15	26	LF	SNG-8	310.3	317.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.5	314.2	4.4
3	800	5/17	26	RF	SNG-8	308.3	319.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	312.1	313.3	0.9
4	800	5/21	26	LF	SNG-8	306.0	317.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	307.6	310.3	3.0
5	800	5/23	26	RF	SNG-8	303.3	314.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	306.6	308.2	2.1
6	800	5/25	26	LF	SNG-8	302.5	316.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	304.0	307.6	0.6
7	800	5/29	26	RF	SNG-8	296.3	310.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	295.3	301.7	5.9
8	800	5/31	26	LF	SNG-8	294.1	308.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300.6	301.2	0.5
9	800	6/ 4	26	RF	SNG-8	291.5	305.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	295.0	297.3	3.9
10	800	6/ 6	26	LF	SNG-8	288.8	304.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	291.3	294.7	2.6
11	800	6/ 7	26	RF	SNG-8	284.5	300.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	289.5	291.5	3.2
12	800	6/11	25	LF	SNG-8	282.5	300.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	286.0	289.6	1.9
13	800	6/13	25	RF	SNG-8	279.5	296.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.0	286.2	3.4
14	800	6/15	26	LF	SNG-8	276.5	294.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	280.0	283.8	2.4
15	800	6/18	26	RF	SNG-8	273.3	290.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	274.5	279.6	4.2
16	800	6/20	26	LF	SNG-8	269.8	291.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	273.6	278.2	1.4
17	800	6/26	26	RF	SNG-8	266.6	286.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	271.8	275.1	3.1
18	800	6/28	26	LF	SNG-8	264.3	284.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	268.8	272.4	2.7
19	800	6/30	26	RF	SNG-8	261.3	281.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	265.5	269.5	2.9
20	800	7/ 3	26	LF	SNG-8	256.8	279.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	261.1	265.9	3.6
21	800	7/ 6	26	RF	SNG-8	254.3	278.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	263.3	265.2	0.7

Comments:

3 103 WET MILES.
4 227 WET MILES.
6 9 WET MILES.
7 30 WET MILES.
10 77 WET MILES.
14 17 WET MILES
18 8 WET MILES
19 119 WET MILES.
20 37 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

PHASE III

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   S U M M A R Y   O F   T R E A D W E A R   T E S T   R E S U L T S
                                                                   PAGE 1
SPONSOR - US/DOT NHTSA                                Project  3-7928-  3
        REF NO. NRD-002          TEST 450006      Date      7/13/94
CONVOY 301        COURSE MONITORING TIRES (CMT) CMT     / XXXXX

Date:     7/20  7/25  7/27  7/31  8/ 2  8/ 6  8/ 8  8/10  8/14
Miles:     800  1600  2400  3200  4000  4800  5600  6400  7200
Tire      - - - - - - - W E A R - - - - - - - - - - - - - - - - - -
11111    306.1 305.5 306.2 305.5 306.2 306.0 305.8 305.8 307.6
                                                   Intercept a 305.63
                                                   Wear Rate b -0.13

22222    305.4 305.7 305.6 306.2 305.9 305.3 305.4 304.9 306.4
                                                   Intercept a 305.62
                                                   Wear Rate b  0.00

Average Intercept         305.630
Average wear               -0.060  Base Wear Rate -0.06   CSAF   1.000

              CANDIDATE GROUPS   CALCULATIONS AT   7200 MILES (INCL. BI)

                         Calc WR  Intcp.   b * CSAF      PM      p=PM/300 RATING
7928/61
                  - 1     3.83    360.55     3.83       78750    262.5      260
                  - 2     3.88    360.08     3.88       77625    258.8      250
                  - 3     3.66    359.57     3.66       82103    273.7      270
                  - 4     3.87    360.20     3.87       77854    259.5      250
7928/62
                  - 1     3.68    340.39     3.68       76449    254.8      250
                  - 2     4.83    340.12     4.83       58382    194.6      190
                  - 3     3.84    342.04     3.84       73727    245.8      240
                  - 4     3.05    343.43     3.05       93072    310.2      310
7928/63
                  - 1     5.71    300.79     5.71       42620    142.1      140
                  - 2     5.55    295.81     5.55       42928    143.1      140
                  - 3     5.74    298.70     5.74       42037    140.1      140
                  - 4     5.54    289.56     5.54       41876    139.6      130
7928/64
                  - 1     8.10    296.18     8.10       29711     99.0       90
                  - 2     8.81    293.22     8.81       27045     90.2       90
                  - 3     8.08    295.25     8.08       29668     98.9       90
                  - 4     8.59    299.41     8.59       28438     94.8       90


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                                        Richard N. Pierce, Manager
                                        Tire Evaluation/Research Section
                                        Southwest Research Institute
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S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 3
REF NO. NRD-002 TEST 4S0006 Date 7/13/84
CONVOY 301 COURSE MONITORING TIRES (CMT) CMT / XXXXX

Date:	7/20	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
Tire	- - - - - - W E A R -										
11111	306.1	305.5	306.2	305.5	306.2	306.0	305.8	305.8	307.6	306.3	
									Intercept a		305.69
									Wear Rate b		-0.11
22222	305.4	305.7	305.6	306.2	305.9	305.3	305.4	304.9	306.4	305.7	
									Intercept a		305.62
									Wear Rate b		0.00

Average Intercept 305.660
Average Wear -0.050 Base Wear Rate -0.05 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 8000 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/61							
	- 1	3.75	360.38	3.75	80368	267.9	260
	- 2	3.83	359.99	3.83	78604	262.0	260
	- 3	3.61	359.47	3.61	83202	277.3	270
	- 4	3.63	360.12	3.63	78638	262.1	260
7926/62							
	- 1	3.65	340.33	3.65	77055	256.9	250
	- 2	4.70	339.86	4.70	59919	199.7	190
	- 3	3.71	341.77	3.71	76210	254.0	250
	- 4	3.02	343.38	3.02	93972	313.2	310
7928/63							
	- 1	5.57	300.50	5.57	43619	145.4	140
	- 2	5.37	295.43	5.37	44269	147.6	140
	- 3	5.55	298.29	5.55	43375	144.6	140
	- 4	5.31	289.07	5.31	43563	145.2	140
7928/64							
	- 1	7.82	295.60	7.82	30672	102.2	100
	- 2	8.40	292.35	8.40	28223	94.1	90
	- 3	7.81	294.67	7.81	30591	102.0	100
	- 4	8.31	298.81	8.31	29297	97.7	90

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 450006 Convoy 301 Candidate Group 301X Ref.#NRD-002
7928/61

Date:	7/20	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
3611	360.4	357.1	355.7	350.8	348.2	344.4	343.6	338.3	336.2	334.2	
									Intercept a		360.38
									Wear Rate b		3.75
3612	359.9	356.4	354.7	350.8	347.9	344.5	342.2	337.2	335.6	332.9	
									Intercept a		359.99
									Wear Rate b		3.83
3613	359.5	356.0	355.6	350.3	347.0	344.5	343.3	337.9	336.8	334.0	
									Intercept a		359.47
									Wear Rate b		3.61
3614	361.2	356.1	354.0	350.5	347.8	345.0	342.1	337.9	335.7	332.9	
									Intercept a		360.12
									Wear Rate b		3.83

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3611	7/20/84	BI1	800	25.29	7.85	127.4	66
3611	8/16/84	08	8000	25.25	7.85	175.6	70
3612	7/20/84	BI1	800	25.29	7.85	127.4	66
3612	8/16/84	08	8000	25.25	7.85	176.4	69
3613	7/20/84	BI1	800	25.29	7.85	127.0	66
3613	8/16/84	08	8000	25.25	7.85	182.5	70
3614	7/20/84	BI1	800	25.29	7.85	125.3	66
3614	8/16/84	08	8000	25.26	7.85	177.2	70

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                 SOUTHWEST RESEARCH INSTITUTE                      Page: MDF-3
                   San Antonio, Texas 78284
                                                       Project: 3-7928-  3
          M E A S U R E M E N T   D A T A   F I L E

Test 450006 Convoy 301   Candidate Group 301M   Ref.#NRD-002
                                                         7926/62

Date:     7/20  7/25  7/27  7/31  8/ 2  8/ 6  8/ 6  8/10  8/14  8/16
Miles:     800  1600  2400  3200  4000  4800  5600  6400  7200  8000
TIRE      - - - - - - - W E A R - - - - - - - - - - - - - - - - - -
3621      340.3 336.9 336.0 331.9 327.6 324.9 323.2 319.3 317.5 314.3
                                                    Intercept a 340.33
                                                    Wear Rate b  3.65

3622      340.4 335.5 333.9 328.0 324.7 319.8 317.1 312.9 309.9 307.2
                                                    Intercept a 339.86
                                                    Wear Rate b  4.70

3623      342.4 338.5 337.3 331.4 330.2 325.9 323.9 320.0 318.3 316.3
                                                    Intercept a 341.77
                                                    Wear Rate b  3.71

3624      343.3 339.7 341.4 335.6 334.1 329.8 328.1 326.4 324.8 321.9
                                                    Intercept a 343.38
                                                    Wear Rate b  3.02

Tire Size P195/75R14-SL
Dimensions at 26  psi on 14 X 6   Rim.

                       Meas.
Tire         Date      After   Miles      OD     CSW     CR%    Hardness
3621       7/20/84     BI1       800   25.41    8.00   122.8       67
3621       8/16/84     08       8000   25.40    8.10   163.9       69

3622       7/20/84     BI1       800   25.43    8.00   122.0       67
3622       8/16/84     08       8000   25.41    8.05   172.3       73

3623       7/20/84     BI1       800   25.42    8.00   121.2       66
3623       8/16/84     08       8000   25.42    8.05   164.6       69

3624       7/20/84     BI1       800   25.40    8.00   120.0       66
3624       8/16/84     08       8000   25.27    8.05   167.6       69
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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 4S0006 Convoy 301 Candidate Group 301G Ref.#NRD-002
7928/63

Date:	7/20	7/25	7/27	7/31	8/ 2	8/ 6	8/ 6	8/10	8/14	8/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
3631	301.8	295.1	292.9	286.4	282.3	276.8	273.6	268.8	265.1	261.7	
									Intercept a		300.50
									Wear Rate b		5.57
3632	298.1	290.2	288.1	280.4	277.5	273.0	268.0	264.8	262.5	258.5	
									Intercept a		295.43
									Wear Rate b		5.37
3633	299.8	294.1	290.5	282.9	279.6	275.7	270.7	265.8	263.6	260.2	
									Intercept a		298.29
									Wear Rate b		5.55
3634	290.8	284.2	282.2	274.3	271.5	266.8	263.5	258.4	254.9	253.1	
									Intercept a		289.07
									Wear Rate b		5.31

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3631	7/20/84	BI1	800	25.26	7.80	155.0	67
3631	8/16/84	08	8000	25.21	7.85	163.2	74
3632	7/20/84	BI1	800	25.26	7.80	151.8	65
3632	8/16/84	08	8000	25.21	7.85	158.3	70
3633	7/20/84	BI1	800	25.25	7.80	155.6	67
3633	8/16/84	08	8000	25.19	7.90	166.1	72
3634	7/20/84	BI1	800	25.26	7.80	166.9	68
3634	8/16/84	08	8000	25.21	7.90	168.4	73

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 4S0006 Convoy 301 Candidate Group 301B Ref.#NRD-002
7928/64

Date:	7/20	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
3641	299.2	289.0	283.3	274.3	269.5	262.1	257.7	251.0	246.4	241.9	
									Intercept a		295.60
									Wear Rate b		7.82
3642	296.9	286.1	279.1	269.2	263.0	255.5	251.0	244.9	239.5	235.8	
									Intercept a		292.35
									Wear Rate b		8.40
3643	296.9	288.9	284.0	272.8	268.7	260.7	256.8	250.2	245.6	241.1	
									Intercept a		294.67
									Wear Rate b		7.81
3644	300.3	293.7	287.3	275.8	270.9	262.9	258.3	251.6	246.5	241.7	
									Intercept a		298.81
									Wear Rate b		8.31

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3641	7/20/84	BI1	800	25.31	7.85	140.4	67
3641	8/16/84	08	8000	25.24	7.85	150.0	74
3642	7/20/84	BI1	800	25.31	7.85	147.0	69
3642	8/16/84	08	8000	25.23	7.85	151.8	76
3643	7/20/84	BI1	800	25.32	7.85	145.3	67
3643	8/16/84	08	8000	25.24	7.80	148.2	74
3644	7/20/84	BI1	800	25.31	7.85	139.3	72
3644	8/16/84	08	8000	25.23	7.85	148.2	77

T R E A D L O S S S U M M A R Y

Group 301X (2) Sponsor Code 7928/61 Test No. 450006 Convoy 301

Inv.No. 3611 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	7/20	26	LR	SNG-8	375.3	345.8	346.6	0.0	0.0	0.0	0.0	0.0	0.0	373.8	360.4	
2	800	7/25	26	RR	SNG-8	371.3	343.5	343.8	0.0	0.0	0.0	0.0	0.0	0.0	369.6	357.1	3.3
3	800	7/27	26	LR	SNG-8	369.0	341.6	344.0	0.0	0.0	0.0	0.0	0.0	0.0	365.0	355.7	1.4
4	800	7/31	26	RR	SNG-8	363.8	338.0	337.5	0.0	0.0	0.0	0.0	0.0	0.0	363.6	350.8	4.9
5	800	8/ 2	26	LR	SNG-8	361.3	335.3	336.0	0.0	0.0	0.0	0.0	0.0	0.0	360.0	348.2	2.6
6	800	8/ 6	26	RR	SNG-8	356.9	332.3	332.8	0.0	0.0	0.0	0.0	0.0	0.0	355.5	344.4	3.8
7	800	8/ 8	26	LR	SNG-8	355.8	331.0	331.6	0.0	0.0	0.0	0.0	0.0	0.0	356.0	343.6	0.8
8	800	8/10	26	RR	SNG-8	350.3	326.1	327.5	0.0	0.0	0.0	0.0	0.0	0.0	349.0	338.3	5.3
9	800	8/14	26	LR	SNG-8	348.5	324.8	325.8	0.0	0.0	0.0	0.0	0.0	0.0	345.6	336.2	2.1
10	800	8/16	26	RR	SNG-8	345.8	322.1	323.6	0.0	0.0	0.0	0.0	0.0	0.0	345.0	334.2	2.0

Comments:

1 18 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301X (2) Sponsor Code 7928/61 Test No. 450006 Convoy 301

Inv.No. 3612 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	26	RR	SNG-8	372.6	345.5	345.3	0.0	0.0	0.0	0.0	0.0	0.0	376.0	359.9	
2	800	7/23	26	LR	SNG-8	369.1	342.5	342.5	0.0	0.0	0.0	0.0	0.0	0.0	371.5	356.4	3.5
3	800	7/27	26	RR	SNG-8	367.3	340.8	340.8	0.0	0.0	0.0	0.0	0.0	0.0	369.6	354.7	1.7
4	800	7/31	26	LR	SNG-9	363.6	336.8	336.8	0.0	0.0	0.0	0.0	0.0	0.0	365.8	350.8	3.9
5	800	8/ 2	26	RR	SNG-8	358.5	334.1	335.0	0.0	0.0	0.0	0.0	0.0	0.0	363.8	347.9	2.9
6	800	8/ 6	26	LR	SNG-8	355.6	330.6	331.5	0.0	0.0	0.0	0.0	0.0	0.0	360.3	344.5	3.4
7	800	8/ 8	26	RR	SNG-8	351.8	329.1	329.3	0.0	0.0	0.0	0.0	0.0	0.0	358.3	342.2	2.3
8	800	8/10	26	LR	SNG-8	346.6	323.6	325.0	0.0	0.0	0.0	0.0	0.0	0.0	353.5	337.2	5.0
9	800	8/14	26	RR	SNG-8	344.6	323.3	324.1	0.0	0.0	0.0	0.0	0.0	0.0	350.3	335.6	1.6
10	800	8/16	26	LR	SNG-8	342.1	321.5	320.8	0.0	0.0	0.0	0.0	0.0	0.0	347.1	332.9	2.7

Comments:

1 13 WET MILES
2 77 WET MILES
3 106 WET MILES
5 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301X (2) Sponsor Code 7929/61 Test No. 450006 Convoy 301

Inv.No. 3613 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	25	RF	SNG-8	374.0	345.0	344.8	0.0	0.0	0.0	0.0	0.0	0.0	374.3	359.5	
2	800	7/25	26	LF	SNG-8	371.0	341.1	341.3	0.0	0.0	0.0	0.0	0.0	0.0	370.5	356.0	3.5
3	800	7/27	26	RF	SNG-8	368.8	341.5	341.8	0.0	0.0	0.0	0.0	0.0	0.0	370.3	355.6	0.4
4	800	7/31	26	LF	SNG-8	363.6	337.1	337.3	0.0	0.0	0.0	0.0	0.0	0.0	362.0	350.3	5.3
5	800	8/ 2	26	RF	SNG-8	361.3	334.0	333.1	0.0	0.0	0.0	0.0	0.0	0.0	359.6	347.0	3.3
6	800	8/ 6	26	LF	SNG-8	357.5	333.1	330.5	0.0	0.0	0.0	0.0	0.0	0.0	356.6	344.5	2.5
7	800	8/ 8	26	RF	SNG-8	355.6	332.3	330.8	0.0	0.0	0.0	0.0	0.0	0.0	354.3	343.3	1.2
8	800	8/10	26	LF	SNG-8	351.0	326.3	325.5	0.0	0.0	0.0	0.0	0.0	0.0	349.8	337.9	5.4
9	800	8/14	26	RF	SNG-8	348.3	325.8	325.1	0.0	0.0	0.0	0.0	0.0	0.0	347.8	336.8	1.1
10	800	8/16	26	LF	SNG-8	346.1	323.1	322.1	0.0	0.0	0.0	0.0	0.0	0.0	344.3	334.0	2.8

Comments:

1 15 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301X (2) Sponsor Code 7928/61

Test No. 450006 Convoy 301

Inv.No. 3614 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	26	LF	SNG-8	374.0	345.3	348.6	0.0	0.0	0.0	0.0	0.0	0.0	376.6	361.2	
2	800	7/25	26	RF	SNG-8	370.0	340.5	342.3	0.0	0.0	0.0	0.0	0.0	0.0	371.5	356.1	5.1
3	800	7/27	26	LF	SNG-8	367.3	339.5	340.3	0.0	0.0	0.0	0.0	0.0	0.0	369.0	354.0	2.1
4	800	7/31	26	RF	SNG-8	364.1	335.3	337.6	0.0	0.0	0.0	0.0	0.0	0.0	365.0	350.5	3.5
5	800	8/ 2	26	LF	SNG-8	362.0	334.6	331.9	0.0	0.0	0.0	0.0	0.0	0.0	362.5	347.8	2.7
6	800	8/ 6	26	RF	SNG-8	358.0	330.5	332.0	0.0	0.0	0.0	0.0	0.0	0.0	359.3	345.0	2.8
7	800	8/ 8	26	LF	SNG-8	354.1	328.6	329.0	0.0	0.0	0.0	0.0	0.0	0.0	356.5	342.1	2.9
8	800	8/10	26	RF	SNG-8	350.1	324.0	324.6	0.0	0.0	0.0	0.0	0.0	0.0	352.6	337.9	4.2
9	800	8/14	26	LF	SNG-8	347.3	322.0	323.5	0.0	0.0	0.0	0.0	0.0	0.0	350.0	335.7	2.2
10	800	8/16	26	RF	SNG-8	344.8	319.5	320.1	0.0	0.0	0.0	0.0	0.0	0.0	347.0	332.9	2.8

Comments:

1 18 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301M (3) Sponsor Code 7926/62 Test No. 450006 Convoy 301

Inv.No. 3621 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	26	LR	SNG-8	339.3	342.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.1	340.3	
2	800	7/25	26	RR	SNG-8	335.5	340.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.8	336.9	3.4
3	800	7/27	26	LR	SNG-8	332.6	340.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.6	336.0	0.9
4	800	7/31	26	RR	SNG-8	330.5	335.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.8	331.9	4.1
5	800	8/ 2	26	LR	SNG-8	325.3	332.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.8	327.6	4.3
6	800	8/ 6	26	RR	SNG-8	323.3	329.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.0	324.9	2.7
7	800	8/ 6	26	LR	SNG-8	319.6	327.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.9	323.2	1.7
8	800	8/10	26	RR	SNG-8	316.1	325.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.5	319.3	3.9
9	800	8/14	26	LR	SNG-8	312.1	323.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.5	317.5	1.8
10	800	8/16	26	RR	SNG-8	309.6	321.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	312.0	314.3	3.2

Comments:

1 19 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301M (3) Sponsor Code 7926/62 Test No. 4S0006 Convoy 301

Inv.No. 3622 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	7/20	26	RR	SNG-8	338.5	341.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	341.1	340.4	
2	800	7/25	26	LR	SNG-8	334.3	337.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.5	335.5	4.9
3	800	7/27	26	RR	SNG-8	331.5	337.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.6	333.9	1.6
4	800	7/31	26	LR	SNG-9	325.6	332.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.8	328.0	5.9
5	800	8/ 2	26	RR	SNG-8	321.5	329.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.5	324.7	3.3
6	800	8/ 6	26	LR	SNG-8	316.3	325.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.0	319.8	4.9
7	800	8/ 6	26	RR	SNG-8	313.1	322.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.6	317.1	2.7
8	800	8/10	26	LR	SNG-9	307.8	318.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	312.1	312.9	4.2
9	800	8/14	26	RR	SNG-8	305.1	315.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	308.8	309.9	3.0
10	800	8/16	26	LR	SNG-9	301.6	314.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	305.6	307.2	2.7

Comments:

1 18 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301M (3) Sponsor Code 7926/62 Test No. 450006 Convoy 301

Inv.No. 3623 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	500	7/20	26	RF	SNG-8	341.0	345.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	340.3	342.4	
2	800	7/25	26	LF	SNG-8	338.1	341.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.5	338.5	3.9
3	800	7/27	26	RF	SNG-8	334.8	341.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.3	337.3	1.2
4	800	7/31	26	LF	SNG-8	330.3	335.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.5	331.4	5.9
5	800	8/ 2	26	RF	SNG-8	326.8	335.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.1	330.2	1.2
6	800	8/ 6	26	LF	SNG-8	324.6	330.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.5	325.9	4.3
7	800	8/ 6	26	RF	SNG-8	321.5	329.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.0	323.9	2.0
9	800	8/10	26	LF	SNG-8	317.6	325.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.5	320.0	3.9
9	800	8/14	26	RF	SNG-8	315.5	325.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.1	318.3	1.7
10	800	8/15	26	LF	SNG-8	312.0	324.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	312.8	316.3	2.0

Comments:

1 18 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301M (3) Sponsor Code 7926/62 Test No. 4S0006 Convoy 301

Inv.No. 3624 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	25	LF	SNG-8	343.8	345.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	340.5	343.3	
2	800	7/25	26	RF	SNG-8	339.8	341.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.1	339.7	3.6
3	800	7/27	26	LF	SNG-8	340.6	344.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.6	341.4	-1.7
4	800	7/31	26	RF	SNG-8	334.1	338.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.3	335.6	5.8
5	800	8/ 2	26	LF	SNG-8	333.3	336.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.0	334.1	1.5
6	800	8/ 6	26	RF	SNG-8	330.8	331.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.3	329.8	4.3
7	800	8/ 6	26	LF	SNG-8	326.6	331.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.1	328.1	1.7
8	800	8/10	26	RF	SNG-8	324.6	330.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.0	326.4	1.7
9	800	8/14	26	LF	SNG-8	322.6	328.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.5	324.8	1.6
10	800	8/16	26	RF	SNG-8	320.1	325.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.1	321.9	2.9

Comments:

1 13 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301G (4) Sponsor Code 7928/63 Test No. 450006 Convoy 301

Inv.No. 3631 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	26	LR	SNG-8	315.0	291.0	292.8	0.0	0.0	0.0	0.0	0.0	0.0	308.5	301.8	
2	600	7/25	26	RR	SNG-8	308.1	284.0	285.6	0.0	0.0	0.0	0.0	0.0	0.0	302.6	295.1	6.7
3	800	7/27	26	LR	SNG-8	306.0	282.8	286.1	0.0	0.0	0.0	0.0	0.0	0.0	296.6	292.9	2.2
4	800	7/31	26	RR	SNG-8	298.0	276.6	279.8	0.0	0.0	0.0	0.0	0.0	0.0	291.1	286.4	6.5
5	800	8/ 2	26	LR	SNG-8	293.6	273.3	275.0	0.0	0.0	0.0	0.0	0.0	0.0	287.3	282.3	4.1
6	800	8/ 5	26	RR	SNG-8	288.6	268.6	270.0	0.0	0.0	0.0	0.0	0.0	0.0	279.6	276.8	5.5
7	800	8/ 6	26	LR	SNG-8	286.5	266.1	265.6	0.0	0.0	0.0	0.0	0.0	0.0	276.0	273.6	3.2
8	800	8/10	26	RR	SNG-8	281.5	262.5	259.8	0.0	0.0	0.0	0.0	0.0	0.0	271.1	268.9	4.8
9	800	8/14	26	LR	SNG-8	279.1	260.5	256.0	0.0	0.0	0.0	0.0	0.0	0.0	264.6	265.1	3.7
10	800	8/16	26	RR	SNG-8	274.6	255.1	256.0	0.0	0.0	0.0	0.0	0.0	0.0	260.8	261.7	3.4

Comments:

1 18 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301G (4) Sponsor Code 7928/63 Test No. 450006 Convoy 301

Inv.No. 3632 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	600	7/20	25	RR	SNG-8	309.0	287.3	290.3	0.0	0.0	0.0	0.0	0.0	0.0	305.8	299.1	
2	800	7/25	26	LR	SNG-8	300.5	279.6	283.0	0.0	0.0	0.0	0.0	0.0	0.0	297.6	290.2	7.9
3	800	7/27	26	RR	SNG-8	299.1	277.6	281.5	0.0	0.0	0.0	0.0	0.0	0.0	294.0	288.1	2.1
4	800	7/31	26	LR	SNG-8	291.1	272.0	273.3	0.0	0.0	0.0	0.0	0.0	0.0	285.0	280.4	7.7
5	800	8/ 2	26	RR	SNG-8	288.0	267.8	271.5	0.0	0.0	0.0	0.0	0.0	0.0	282.6	277.5	2.9
6	800	8/ 6	26	LR	SNG-8	284.6	265.0	265.8	0.0	0.0	0.0	0.0	0.0	0.0	276.3	273.0	4.5
7	800	8/ 8	26	RR	SNG-8	282.0	256.3	253.0	0.0	0.0	0.0	0.0	0.0	0.0	270.8	269.0	5.0
8	800	8/10	26	LR	SNG-8	276.1	256.3	260.9	0.0	0.0	0.0	0.0	0.0	0.0	265.6	264.8	3.2
9	800	8/14	26	RR	SNG-9	273.0	256.1	257.1	0.0	0.0	0.0	0.0	0.0	0.0	263.5	262.5	2.3
10	800	8/16	26	LR	SNG-8	269.1	252.6	254.0	0.0	0.0	0.0	0.0	0.0	0.0	255.0	258.5	4.0

Comments:

1 13 WET MILES
2 77 WET MILES
3 106 WET MILES
8 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301G (4) Sponsor Code 7928/63 Test No. 450006 Convoy 301

Inv.No. 3633 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	25	RF	SNG-8	311.3	289.0	292.8	0.0	0.0	0.0	0.0	0.0	0.0	306.8	299.8	
2	800	7/25	26	LF	SNG-8	306.6	282.6	287.3	0.0	0.0	0.0	0.0	0.0	0.0	299.6	294.1	5.7
3	800	7/27	26	RF	SNG-8	303.3	279.1	283.8	0.0	0.0	0.0	0.0	0.0	0.0	295.8	290.5	3.6
4	800	7/31	26	LF	SNG-8	296.0	270.6	276.8	0.0	0.0	0.0	0.0	0.0	0.0	288.0	282.9	7.6
5	800	8/ 2	26	RF	SNG-8	292.1	267.1	273.3	0.0	0.0	0.0	0.0	0.0	0.0	285.6	279.6	3.3
6	800	8/ 6	26	LF	SNG-8	287.5	265.6	269.1	0.0	0.0	0.0	0.0	0.0	0.0	280.3	275.7	3.9
7	800	8/ 6	26	RF	SNG-8	284.3	256.3	268.8	0.0	0.0	0.0	0.0	0.0	0.0	273.1	270.7	5.0
8	800	8/10	26	LF	SNG-8	279.1	252.5	261.6	0.0	0.0	0.0	0.0	0.0	0.0	269.0	265.8	4.9
9	800	8/14	26	RF	SNG-8	275.1	251.8	260.6	0.0	0.0	0.0	0.0	0.0	0.0	267.3	263.8	2.0
10	800	8/16	26	LF	SNG-8	272.6	252.5	256.1	0.0	0.0	0.0	0.0	0.0	0.0	259.5	260.2	3.6

Comments:

1 19 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301G (4) Sponsor Code 7928/63 Test No. 4S0006 Convoy 301

Inv.No. 3634 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	25	LF	SNG-8	295.1	284.3	289.1	0.0	0.0	0.0	0.0	0.0	0.0	294.5	290.8	
2	800	7/25	26	RF	SNG-8	287.5	279.1	283.0	0.0	0.0	0.0	0.0	0.0	0.0	287.1	284.2	6.6
3	800	7/27	26	LF	SNG-8	285.6	277.0	282.3	0.0	0.0	0.0	0.0	0.0	0.0	283.6	282.2	2.0
4	800	7/31	26	RF	SNG-8	278.5	270.6	272.8	0.0	0.0	0.0	0.0	0.0	0.0	275.3	274.3	7.9
5	800	8/ 2	26	LF	SNG-8	276.3	267.8	271.0	0.0	0.0	0.0	0.0	0.0	0.0	270.6	271.5	2.8
6	800	8/ 6	26	RF	SNG-8	271.6	263.6	267.1	0.0	0.0	0.0	0.0	0.0	0.0	264.6	266.8	4.7
7	800	8/ 6	26	LF	SNG-8	268.8	261.3	264.3	0.0	0.0	0.0	0.0	0.0	0.0	259.6	263.5	3.3
8	800	8/10	26	RF	SNG-8	262.8	257.5	260.8	0.0	0.0	0.0	0.0	0.0	0.0	252.3	258.4	5.1
9	800	8/14	26	LF	SNG-8	260.3	253.5	256.5	0.0	0.0	0.0	0.0	0.0	0.0	249.3	254.9	3.5
10	800	8/16	26	RF	SNG-8	256.6	252.3	254.5	0.0	0.0	0.0	0.0	0.0	0.0	248.3	253.1	1.8

Comments:

1 16 WET MILES
2 77 WET MILES
3 106 WET MILES
5 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 3018 (5) Sponsor Code 7928/64 Test No. 4S0006 Convoy 301

Inv.No. 3641 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	25	LR	SNG-8	296.1	300.5	303.8	0.0	0.0	0.0	0.0	0.0	0.0	296.1	299.2	
2	800	7/25	26	RR	SNG-8	284.8	293.1	294.6	0.0	0.0	0.0	0.0	0.0	0.0	283.3	289.0	10.2
3	800	7/27	26	LR	SNG-8	280.0	287.0	288.1	0.0	0.0	0.0	0.0	0.0	0.0	277.8	283.3	5.7
4	800	7/31	26	RR	SNG-8	269.8	278.8	280.6	0.0	0.0	0.0	0.0	0.0	0.0	268.0	274.3	9.0
5	800	8/ 2	26	LR	SNG-8	266.6	273.6	275.3	0.0	0.0	0.0	0.0	0.0	0.0	262.1	269.5	4.8
6	800	8/ 6	26	RR	SNG-8	255.8	267.3	270.3	0.0	0.0	0.0	0.0	0.0	0.0	255.0	262.1	7.4
7	800	8/ 9	26	LR	SNG-8	254.3	262.1	264.1	0.0	0.0	0.0	0.0	0.0	0.0	250.1	257.7	4.4
8	800	8/10	26	RR	SNG-8	245.1	256.3	258.8	0.0	0.0	0.0	0.0	0.0	0.0	243.8	251.0	6.7
9	800	8/14	26	LR	SNG-8	240.3	253.1	254.3	0.0	0.0	0.0	0.0	0.0	0.0	237.8	246.4	4.6
10	800	8/16	26	RR	SNG-8	235.1	248.0	250.5	0.0	0.0	0.0	0.0	0.0	0.0	234.0	241.9	4.5

Comments:

1 18 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 301B (5) Sponsor Code 7928/64 Test No. 450006 Convoy 301

Inv.No. 3642 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	26	RR	SNG-8	294.1	300.1	300.5	0.0	0.0	0.0	0.0	0.0	0.0	292.6	296.9	
2	800	7/25	26	LR	SNG-8	278.3	293.0	293.3	0.0	0.0	0.0	0.0	0.0	0.0	279.9	286.1	10.8
3	800	7/27	26	RR	SNG-8	271.8	285.8	287.3	0.0	0.0	0.0	0.0	0.0	0.0	271.5	279.1	7.0
4	800	7/31	26	LR	SNG-8	262.0	276.6	276.6	0.0	0.0	0.0	0.0	0.0	0.0	261.3	269.2	9.9
5	800	8/ 2	26	RR	SNG-8	254.0	271.1	272.6	0.0	0.0	0.0	0.0	0.0	0.0	254.3	263.0	6.2
6	800	8/ 6	26	LR	SNG-8	246.8	264.8	264.1	0.0	0.0	0.0	0.0	0.0	0.0	246.0	255.5	7.5
7	800	8/ 8	26	RR	SNG-8	243.8	259.6	259.1	0.0	0.0	0.0	0.0	0.0	0.0	241.5	251.0	4.5
8	800	8/10	26	LR	SNG-8	237.5	254.8	254.1	0.0	0.0	0.0	0.0	0.0	0.0	233.0	244.9	6.1
9	800	8/14	26	RR	SNG-8	230.6	249.3	250.5	0.0	0.0	0.0	0.0	0.0	0.0	227.5	239.5	5.4
10	800	8/16	26	LR	SNG-8	226.3	247.5	245.1	0.0	0.0	0.0	0.0	0.0	0.0	224.1	235.8	3.7

Comments:

1 13 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 3012 (5) Sponsor Code 7928/64 Test No. 450006 Convoy 301

Inv.No. 3643 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	25	RF	SNG-8	293.0	303.1	301.1	0.0	0.0	0.0	0.0	0.0	0.0	290.3	296.9	
2	800	7/25	26	LF	SNG-8	282.5	295.5	294.1	0.0	0.0	0.0	0.0	0.0	0.0	283.3	288.9	8.0
3	800	7/27	26	RF	SNG-8	278.8	288.5	289.1	0.0	0.0	0.0	0.0	0.0	0.0	279.3	284.0	4.9
4	800	7/31	26	LF	SNG-8	267.5	278.6	278.1	0.0	0.0	0.0	0.0	0.0	0.0	266.8	272.8	11.2
5	800	8/ 2	26	RF	SNG-8	261.5	274.6	275.0	0.0	0.0	0.0	0.0	0.0	0.0	263.5	268.7	4.1
6	800	8/ 6	26	LF	SNG-8	253.0	266.1	267.3	0.0	0.0	0.0	0.0	0.0	0.0	256.3	260.7	8.0
7	800	8/ 8	26	RF	SNG-8	249.5	263.3	263.5	0.0	0.0	0.0	0.0	0.0	0.0	250.6	256.8	3.9
8	800	8/10	26	LF	SNG-8	242.5	257.8	257.5	0.0	0.0	0.0	0.0	0.0	0.0	243.0	250.2	6.6
9	800	8/14	26	RF	SNG-8	237.8	252.3	253.0	0.0	0.0	0.0	0.0	0.0	0.0	239.3	245.6	4.6
10	800	8/16	26	LF	SNG-8	233.8	247.5	248.8	0.0	0.0	0.0	0.0	0.0	0.0	234.3	241.1	4.5

Comments:

1 19 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 3018 (5) Sponsor Code 7929/64 Test No. 4S0006 Convoy 301

Inv.No. 3644 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/20	26	LF	SNG-8	295.8	302.8	304.1	0.0	0.0	0.0	0.0	0.0	0.0	298.1	300.3	
2	800	7/25	26	RF	SNG-8	288.3	297.6	298.3	0.0	0.0	0.0	0.0	0.0	0.0	290.5	293.7	6.6
3	800	7/27	26	LF	SNG-8	282.3	289.3	291.1	0.0	0.0	0.0	0.0	0.0	0.0	286.1	287.3	6.4
4	800	7/31	26	RF	SNG-8	268.8	278.6	281.6	0.0	0.0	0.0	0.0	0.0	0.0	273.8	275.8	11.5
5	800	8/ 2	26	LF	SNG-8	264.3	274.0	276.0	0.0	0.0	0.0	0.0	0.0	0.0	269.1	270.9	4.9
6	800	8/ 6	26	RF	SNG-8	254.5	266.0	269.6	0.0	0.0	0.0	0.0	0.0	0.0	261.3	262.9	8.0
7	800	8/ 8	26	LF	SNG-8	250.8	260.8	264.6	0.0	0.0	0.0	0.0	0.0	0.0	256.6	258.3	4.6
8	800	8/10	26	RF	SNG-8	244.1	255.1	258.1	0.0	0.0	0.0	0.0	0.0	0.0	249.0	251.6	6.7
9	800	8/14	26	LF	SNG-8	238.6	250.0	253.0	0.0	0.0	0.0	0.0	0.0	0.0	244.5	246.5	5.1
10	800	8/16	26	RF	SNG-8	233.3	244.6	249.5	0.0	0.0	0.0	0.0	0.0	0.0	239.3	241.7	4.8

Comments:
1 18 WET MILES
2 77 WET MILES
3 106 WET MILES
6 47 WET MILES
9 3 WET MILES
10 42 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 3
REF NO. NRD-002 TEST 450007 Date 7/13/84
CONVOY 401 COURSE MONITORING TIRES (CMT) CMT / XXXXX

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
Tire	- - - - - - W E A R - - - - - - - - - - - - - - - - - -									
11111	305.9	305.8	305.9	305.9	306.3	306.2	305.8	306.0	306.0	
										Intercept a 305.90
										Wear Rate b -0.01
22222	305.3	306.0	306.0	306.0	305.7	305.4	305.1	305.7	305.7	
										Intercept a 305.77
										Wear Rate b 0.04

Average Intercept 305.840
Average Wear 0.020 Base Wear Rate 00.02 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 7200 MILES (INCL. BI)

	Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/71						
- 1	3.66	360.90	3.66	82467	274.9	270
- 2	3.88	360.42	3.88	77712	259.0	250
- 3	3.59	360.79	3.59	84028	280.1	280
- 4	3.80	360.91	3.80	79461	264.9	260
7928/72						
- 1	3.50	338.81	3.50	79889	266.3	260
- 2	3.03	344.21	3.03	93939	313.1	310
- 3	3.50	341.28	3.50	80594	268.6	260
- 4	5.03	341.45	5.03	56357	187.9	180
7928/73						
- 1	4.95	288.57	4.95	46572	155.2	150
- 2	5.32	287.23	5.32	43136	143.8	140
- 3	5.19	292.67	5.19	45245	150.8	150
- 4	5.07	299.43	5.07	45658	152.2	150
7928/74						
- 1	7.51	294.41	7.51	31747	105.8	100
- 2	8.50	291.98	8.50	27856	92.9	90
- 3	7.87	293.77	7.87	30250	100.8	100
- 4	7.48	293.99	7.48	31815	106.1	100

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 3
REF NO. NRD-002 TEST 450007 Date 7/13/84
CONVOY 401 COURSE MONITORING TIRES (CMT) CMT / XXXXX

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
Tire	- - - - - - W E A R -									
11111	305.9	305.8	305.9	305.9	306.3	306.2	305.8	306.0	306.0	306.1
									Intercept a	305.90
									wear Rate b	-0.02
22222	305.3	306.0	306.0	306.0	305.7	305.4	305.1	305.7	305.7	305.7
									Intercept a	305.74
									Wear Rate b	0.02

Average Intercept 305.825
Average wear 0.005 Base Wear Rate 1.00 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 8000 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/71							
	- 1	3.57	360.72	3.57	84475	281.6	280
	- 2	3.74	360.13	3.74	80514	268.4	260
	- 3	3.49	360.58	3.49	86353	287.8	280
	- 4	3.66	360.62	3.66	82390	274.6	270
7928/72							
	- 1	3.42	338.64	3.42	81689	272.3	270
	- 2	2.94	344.03	2.94	96729	322.4	320
	- 3	3.43	341.14	3.43	82182	273.9	270
	- 4	4.78	340.93	4.78	59154	197.2	190
7928/73							
	- 1	4.82	288.31	4.82	47752	159.2	150
	- 2	5.07	286.70	5.07	45120	150.4	150
	- 3	5.12	292.54	5.12	45827	152.8	150
	- 4	4.98	289.23	4.98	46429	154.8	150
7928/74							
	- 1	7.31	293.99	7.31	32536	108.5	100
	- 2	8.21	291.38	8.21	28739	95.8	90
	- 3	7.61	293.22	7.61	31184	103.9	100
	- 4	7.28	293.59	7.28	32612	108.7	100

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 430007 Convoy 401 Candidate Group 401X Ref.#NRD-002
7928/71

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
TIRE	- - - - - - W E A R - - - - - - - - - - - - - - - - - -									
3711	360.6	358.5	356.2	351.0	349.0	345.6	343.9	339.6	338.3	Intercept a 360.90 Wear Rate b 3.66
3712	360.3	357.7	355.4	349.6	347.9	344.8	342.2	338.1	336.3	Intercept a 360.42 Wear Rate b 3.83
3713	360.5	357.3	356.5	350.3	349.5	346.1	344.4	340.6	337.6	Intercept a 360.79 Wear Rate b 3.59
3714	360.7	357.8	356.3	350.8	348.1	345.4	343.6	340.0	336.2	Intercept a 360.91 Wear Rate b 3.80

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	DD	CSW	CR%	Hardness
3711	7/23/84	BI1	800	25.29	7.85	126.1	66
3711	8/14/84	07	7200	0.00	0.00	0.0	69
3712	7/23/84	BI1	800	25.29	7.85	124.9	66
3712	8/14/84	07	7200	0.00	0.00	0.0	69
3713	7/23/84	BI1	800	25.29	7.85	127.4	66
3713	8/14/84	07	7200	0.00	0.00	0.0	70
3714	7/23/84	BI1	800	25.28	7.85	127.0	66
3714	8/14/84	07	7200	0.00	0.00	0.0	69

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 450007 Convoy 401 Candidate Group 401M Ref.#NRD-002
7928/72

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
TIRE	- - - - - - - W E A R -									
3721	338.7	337.0	334.3	328.3	326.0	324.2	324.0	318.8	316.6	
										Intercept a 338.81
										Wear Rate b 3.50
3722	343.3	342.1	341.2	336.1	333.8	331.2	329.4	328.1	325.1	
										Intercept a 344.21
										Wear Rate b 3.03
3723	340.9	338.9	337.0	332.3	329.1	326.2	325.1	322.8	318.4	
										Intercept a 341.28
										Wear Rate b 3.50
3724	341.6	337.2	335.9	327.9	324.3	320.4	316.8	314.8	309.5	
										Intercept a 341.45
										Wear Rate b 5.03

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 5 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3721	7/23/84	BI1	800	25.42	8.00	116.3	67
3721	8/14/84	07	7200	0.00	0.00	0.0	69
3722	7/23/84	BI1	800	25.39	8.00	117.0	66
3722	8/14/84	07	7200	0.00	0.00	0.0	70
3723	7/23/84	BI1	800	25.42	8.00	118.5	67
3723	8/14/84	07	7200	0.00	0.00	0.0	69
3724	7/23/84	BI1	800	25.42	8.00	121.2	68
3724	8/14/84	07	7200	0.00	0.00	0.0	74

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                 SOUTHWEST RESEARCH INSTITUTE                      Page: MDF-4
                   San Antonio, Texas 78284
                                                         Project: 9-7928-   3
      M E A S U R E M E N T   D A T A   F I L E

Test 4S0007 Convoy 401   Candidate Group 401G    Ref.#NRD-002
                                                       7928/73

Date:     7/23  7/25  7/27  7/31  8/ 2  8/ 6  8/ 8  8/10  8/14
Miles:     800  1600  2400  3200  4000  4800  5600  6400  7200
TIRE      - - - - - - W E A R - - - - - - - - - - - - - - - -
3731      289.2 285.5 281.1 275.5 271.4 267.9 265.0 260.8 258.3
                                                     Intercept a 289.57
                                                     wear Rate b   4.95

3732      286.6 283.6 278.6 273.5 268.2 264.1 262.2 257.8 255.0
                                                     Intercept a 287.23
                                                     wear Rate b   5.32

3733      293.0 289.0 286.2 278.9 274.6 270.6 267.8 263.1 261.4
                                                     Intercept a 292.67
                                                     wear Rate b   5.19

3734      289.1 285.7 282.1 277.0 273.0 268.7 265.0 260.5 257.9
                                                     Intercept a 289.43
                                                     wear Rate b   5.07

Tire Size P195/75R14SL
Dimensions at 26  psi on 14 X 6   Rim.

                        Meas.
Tire          Date      After   Miles     CD     CSW     CR%    Hardness
3731         7/23/84    BI1       800   25.26   7.85   156.3       67
3731         8/14/84    07       7200    0.00   0.00     0.0       72

3732         7/23/84    BI1       800   25.26   7.85   159.0       68
3732         8/14/84    07       7200    0.00   0.00     0.0       74

3733         7/23/84    BI1       800   25.26   7.85   110.2       67
3733         8/14/84    07       7200    0.00   0.00     0.0       71

3734         7/23/84    BI1       800   25.27   7.85   161.8       67
3734         8/14/84    07       7200    0.00   0.00     0.0       72
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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 4S0007 Convoy 401 Candidate Group 401B Ref.#NRD-002
7928/74

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
TIRE	- - - - - - W E A R - - - - - - - - - - - - - - - - - -									
3741	295.0	289.5	283.1	275.4	268.9	262.9	257.8	252.4	248.5	
										Intercept a 294.41
										Wear Rate b 7.51
3742	294.6	285.9	278.7	269.6	261.8	256.1	250.5	245.6	240.3	
										Intercept a 291.98
										Wear Rate b 8.50
3743	295.2	288.7	281.8	273.4	265.7	260.3	256.7	249.8	245.8	
										Intercept a 293.77
										Wear Rate b 7.87
3734	294.6	288.9	284.3	274.5	267.2	262.3	257.8	253.0	248.1	
										Intercept a 293.99
										Wear Rate b 7.48

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3741	7/23/84	BI1	800	25.31	7.80	143.6	68
3741	8/14/84	07	7200	0.00	0.00	0.0	75
3742	7/23/84	BI1	800	25.31	7.80	136.7	69
3742	8/14/84	07	7200	0.00	0.00	0.0	76
3743	7/23/84	BI1	800	25.31	7.80	144.2	69
3743	8/14/84	07	7200	0.00	0.00	0.0	76
3734	7/23/84	BI1	800	25.31	7.80	142.0	69
3734	8/14/84	07	7200	0.00	0.00	0.0	74

T R E A D L O S S S U M M A R Y

Group 401X (2) Sponsor Code 7929/71 Test No. 450007 Convoy 401

Inv.No. 3711 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	376.0	344.8	346.5	0.0	0.0	0.0	0.0	0.0	0.0	375.1	360.6	
2	900	7/25	26	RR	SNG-8	372.6	343.3	344.5	0.0	0.0	0.0	0.0	0.0	0.0	373.5	358.5	2.1
3	800	7/27	26	LR	SNG-8	369.6	341.8	342.1	0.0	0.0	0.0	0.0	0.0	0.0	371.1	356.2	2.3
4	800	7/31	26	RR	SNG-8	365.3	336.1	337.3	0.0	0.0	0.0	0.0	0.0	0.0	365.3	351.0	5.2
5	800	8/ 2	26	LR	SNG-8	363.5	335.0	334.5	0.0	0.0	0.0	0.0	0.0	0.0	363.0	349.0	2.0
6	800	8/ 6	26	RR	SNG08	358.6	332.3	332.8	0.0	0.0	0.0	0.0	0.0	0.0	358.6	345.6	3.4
7	800	8/ 8	26	LR	SNG-8	357.6	331.1	330.6	0.0	0.0	0.0	0.0	0.0	0.0	356.1	343.9	1.7
8	800	8/10	26	RR	SNG-8	352.5	327.5	326.0	0.0	0.0	0.0	0.0	0.0	0.0	352.5	339.6	4.3
9	800	8/14	26	LR	SNG-8	352.1	325.6	324.5	0.0	0.0	0.0	0.0	0.0	0.0	350.6	338.3	1.3
10	800	8/16	26	RR	SNG-9	349.1	323.8	322.6	0.0	0.0	0.0	0.0	0.0	0.0	347.8	335.9	2.4

Comments:

1 29 WET MILES
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
6 54 WET MILES
9 13 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401X (2) Sponsor Code 7928/71 Test No. 450007 Convoy 401

Inv.No. 3712 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	CSS	Avg	Loss
1	800	7/23	25	RR	SNG-8	375.3	343.8	347.0	0.0	0.0	0.0	0.0	0.0	0.0	374.8	360.3	
2	800	7/25	26	LR	SNG-8	372.1	343.8	344.1	0.0	0.0	0.0	0.0	0.0	0.0	370.6	357.7	2.6
3	800	7/27	26	RR	SNG-8	370.1	341.0	340.3	0.0	0.0	0.0	0.0	0.0	0.0	370.1	355.4	2.3
4	800	7/31	26	LR	SNG-8	364.1	335.6	335.3	0.0	0.0	0.0	0.0	0.0	0.0	363.1	349.6	5.8
5	800	8/ 2	26	RR	SNG-8	362.0	332.5	335.6	0.0	0.0	0.0	0.0	0.0	0.0	361.1	347.8	1.8
6	800	8/ 6	26	LR	SNG08	357.8	331.5	332.0	0.0	0.0	0.0	0.0	0.0	0.0	357.6	344.8	3.0
7	800	8/ 8	26	RR	SNG-8	355.0	329.8	329.5	0.0	0.0	0.0	0.0	0.0	0.0	354.5	342.2	2.6
8	800	8/10	26	LR	SNG-8	351.0	325.3	325.3	0.0	0.0	0.0	0.0	0.0	0.0	350.6	339.1	4.1
9	800	8/14	26	RR	SNG-8	349.1	323.8	324.0	0.0	0.0	0.0	0.0	0.0	0.0	348.1	336.3	1.8
10	800	8/16	26	LR	SNG-8	348.0	321.1	323.0	0.0	0.0	0.0	0.0	0.0	0.0	345.8	334.5	1.8

Comments:

1 29 WET MILES
2 50 WET MILES
3 83 WET MILES
4 26 WET MILES
5 54 WET MILES
6 18 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401X (2) Sponsor Code 7928/71 Test No. 450007 Convoy 401

Inv.No. 3713 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RF	SNG-8	374.6	345.1	347.1	0.0	0.0	0.0	0.0	0.0	0.0	374.8	360.5	
2	800	7/25	26	LF	SNG-8	372.5	343.3	344.3	0.0	0.0	0.0	0.0	0.0	0.0	370.8	357.8	2.7
3	800	7/27	26	RF	SNG-8	371.1	341.8	341.8	0.0	0.0	0.0	0.0	0.0	0.0	371.0	356.5	1.3
4	800	7/31	26	LF	SNG-8	365.0	336.3	337.0	0.0	0.0	0.0	0.0	0.0	0.0	364.6	350.8	5.7
5	800	8/ 2	26	RF	SNG-8	363.5	335.6	335.8	0.0	0.0	0.0	0.0	0.0	0.0	362.8	349.5	1.3
6	800	8/ 6	26	LF	SNG08	359.8	332.1	331.8	0.0	0.0	0.0	0.0	0.0	0.0	360.6	346.1	3.4
7	800	8/ 8	26	RF	SNG-8	356.0	332.6	331.1	0.0	0.0	0.0	0.0	0.0	0.0	357.6	344.4	1.7
8	800	8/10	26	LF	SNG-8	353.1	327.5	328.5	0.0	0.0	0.0	0.0	0.0	0.0	353.3	340.6	3.8
9	800	8/14	26	RF	SNG-8	349.5	325.8	325.5	0.0	0.0	0.0	0.0	0.0	0.0	349.6	337.6	3.0
10	800	8/16	26	LF	SNG-8	346.8	324.0	325.5	0.0	0.0	0.0	0.0	0.0	0.0	349.3	336.4	1.2

Comments:

1 29 WET MILES
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
6 54 WET MILES
9 16 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401X (2) Sponsor Code 7928/71 Test No. 4S0007 Convoy 401

Inv.No. 3714 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LF	SNG-8	374.8	345.6	346.3	0.0	0.0	0.0	0.0	0.0	0.0	375.8	360.7	
2	800	7/25	26	RF	SNG-8	369.3	343.3	344.8	0.0	0.0	0.0	0.0	0.0	0.0	373.8	357.8	2.9
3	800	7/27	26	LF	SNG-8	369.6	342.3	343.0	0.0	0.0	0.0	0.0	0.0	0.0	370.1	356.3	1.5
4	800	7/31	26	RF	SNG-9	364.5	336.8	337.3	0.0	0.0	0.0	0.0	0.0	0.0	364.6	350.8	5.5
5	800	8/ 2	26	LF	SNG-8	361.5	334.0	335.1	0.0	0.0	0.0	0.0	0.0	0.0	361.6	348.1	2.7
6	800	8/ 6	26	RF	SNG08	357.3	332.3	333.0	0.0	0.0	0.0	0.0	0.0	0.0	359.0	345.4	2.7
7	800	8/ 8	26	LF	SNG-8	356.0	329.5	332.8	0.0	0.0	0.0	0.0	0.0	0.0	356.0	343.6	1.8
8	800	8/10	26	RF	SNG-8	351.8	326.5	328.5	0.0	0.0	0.0	0.0	0.0	0.0	353.3	340.0	3.6
9	800	8/14	26	LF	SNG-8	348.3	323.5	324.5	0.0	0.0	0.0	0.0	0.0	0.0	348.5	336.2	3.8
10	800	8/16	26	RF	SNG-9	346.3	323.8	324.3	0.0	0.0	0.0	0.0	0.0	0.0	347.8	335.6	0.6

Comments:

1 29 WET MILES
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
5 54 WET MILES
9 18 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401M (3) Sponsor Code 7928/72 Test No. 4S0007 Convoy 401

Inv.No. 3721 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	337.6	342.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.0	338.7	
2	800	7/25	26	RR	SNG-8	335.0	341.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.3	337.0	1.7
3	800	7/27	26	LR	SNG-8	333.6	338.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.0	334.3	2.7
4	800	7/31	26	RR	SNG-8	327.5	333.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.6	328.8	5.5
5	800	8/ 2	26	LR	SNG-8	324.0	332.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.0	326.0	2.8
6	800	8/ 6	26	RR	SNG-8	320.5	330.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.0	324.2	1.8
7	800	8/ 8	26	LR	SNG-8	320.3	330.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.5	324.0	0.2
8	800	8/10	26	RR	SNG-8	315.1	324.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.5	318.8	5.2
9	800	8/14	26	LR	SNG-8	313.1	322.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.1	316.6	2.2
10	800	8/16	26	RR	SNG-8	310.6	322.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	311.0	314.8	1.8

Comments:

1 29 WET MILES
1 VEHICLE #1409 REPLACED VEHICLE #1406
1 FOR EX1 CIRCUITS 2-A & 2-B,
1 NO MILEAGE LOST.
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
6 54 WET MILES
9 18 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401M (3) Sponsor Code 7928/72 Test No. 450007 Convoy 401

Inv.No. 3722 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RR	SNG-8	342.5	345.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	343.6	343.8	
2	800	7/25	26	LR	SNG-8	340.8	345.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.6	342.1	1.7
3	800	7/27	26	RR	SNG-8	340.5	343.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.8	341.2	0.9
4	800	7/31	26	LR	SNG-8	336.0	338.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	333.5	336.1	5.1
5	800	8/ 2	26	RR	SNG-8	332.0	337.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.0	333.8	2.3
6	800	8/ 6	26	LR	SNG-8	331.0	334.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.9	331.2	2.6
7	800	8/ 8	26	RR	SNG-8	329.6	333.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.6	329.4	1.8
8	800	8/10	26	LR	SNG-8	327.3	331.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.1	329.1	1.3
9	800	8/14	26	RR	SNG-8	322.3	328.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.3	325.1	3.0
10	800	8/16	26	LR	SNG-8	322.1	326.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.1	323.7	1.4

Comments:

1 29 WET MILES
1 VEHICLE #1409 REPLACED VEHICLE #1406
1 FOR EI1 CIRCUITS 2-A & 2-B,
1 NO MILEAGE LOST.
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
6 54 WET MILES
9 16 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401M (3) Sponsor Code 7528/72 Test No. 450007 Convoy 401

Inv.No. 3723 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	7/23	25	RF	SNG-8	338.3	345.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.1	340.9	
2	800	7/25	26	LF	SNG-8	336.3	341.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.6	339.9	2.0
3	800	7/27	26	RF	SNG-8	332.6	341.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.8	337.0	1.9
4	800	7/31	26	LF	SNG-8	327.6	336.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.8	332.3	4.7
5	800	8/ 2	26	RF	SNG-8	325.8	333.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.8	329.1	3.2
6	800	8/ 5	26	LF	SNG-8	323.5	331.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.3	326.2	2.9
7	800	8/ 8	26	RF	SNG-8	321.[illegible]	331.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.3	325.1	1.1
8	800	8/10	26	LF	SNG-8	318.8	330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	319.6	322.8	2.3
9	800	8/14	26	RF	SNG-8	312.1	326.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	317.1	318.4	4.4
10	800	8/16	26	LF	SNG-8	311.0	324.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.0	317.1	1.3

Comments:

1 29 WET MILES
1 VEHICLE #1409 REPLACED VEHICLE #1406
1 FOR ELL CIRCUITS 2-A & 2-B,
1 NO MILEAGE LOST.
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
6 54 WET MILES
9 18 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401M (3) Sponsor Code 7928/72 Test No. 4S0007 Convoy 401

Inv.No. 3724 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LF	SNG-8	339.6	345.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.6	341.6	
2	800	7/25	26	RF	SNG-8	336.3	340.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.6	337.2	4.4
3	600	7/27	26	LF	SNG-8	334.1	339.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.5	335.9	1.3
4	800	7/31	26	RF	SNG-8	327.6	333.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.8	327.9	8.0
5	800	8/ 2	26	LF	SNG-8	324.3	328.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.0	324.3	3.6
6	800	8/ 6	26	RF	SNG-8	319.6	325.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.8	320.4	3.9
7	800	8/ 8	26	LF	SNG-8	317.3	323.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	310.0	316.8	3.6
8	800	8/10	26	RF	SNG-8	315.3	321.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	307.8	314.8	2.0
9	900	8/14	26	LF	SNG-8	309.8	315.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303.1	309.5	5.3
10	800	8/16	26	RF	SNG-8	309.3	316.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300.5	308.9	0.6

Comments:

1 29 WET MILES
1 VEHICLE #1409 REPLACED VEHICLE #1406
1 FOR ALL CIRCUITS 2-A & 2-B,
1 NO MILEAGE LOST.
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
6 54 WET MILES
9 15 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401G (4) Sponsor Code 7928/73 Test No. 450007 Convoy 401

Inv.No. 3731 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	295.6	282.0	286.3	0.0	0.0	0.0	0.0	0.0	0.0	292.8	289.2	
2	800	7/25	26	RR	SNG-8	292.6	277.5	283.3	0.0	0.0	0.0	0.0	0.0	0.0	288.5	285.5	3.7
3	800	7/27	26	LR	SNG-8	296.6	273.8	279.5	0.0	0.0	0.0	0.0	0.0	0.0	284.3	281.1	4.4
4	800	7/31	26	RR	SNG-8	282.3	269.1	273.8	0.0	0.0	0.0	0.0	0.0	0.0	276.6	275.5	5.6
5	800	8/ 2	26	LR	SNG-8	279.0	264.3	270.6	0.0	0.0	0.0	0.0	0.0	0.0	271.5	271.4	4.1
6	800	8/ 6	26	RR	SNG-8	274.1	262.1	265.3	0.0	0.0	0.0	0.0	0.0	0.0	270.0	267.9	3.5
7	800	8/ 8	26	LR	SNG-8	272.3	257.3	263.3	0.0	0.0	0.0	0.0	0.0	0.0	266.8	265.0	2.9
8	800	8/10	26	RR	SNG-8	267.3	256.0	260.5	0.0	0.0	0.0	0.0	0.0	0.0	259.5	260.8	4.2
9	800	8/14	26	LR	SNG-8	263.0	253.1	257.3	0.0	0.0	0.0	0.0	0.0	0.0	259.5	258.3	2.5
10	800	8/16	26	RR	SNG-8	260.1	249.0	253.5	0.0	0.0	0.0	0.0	0.0	0.0	256.3	254.8	3.5

Comments:

1 29 WET MILES
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
4 TACH INOPERATIVE
5 54 WET MILES
6 TACH INOPERATIVE
9 13 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401G (4) Sponsor Code 7928/73 Test No. 450007 Convoy 401

Inv.No. 3732 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RR	SNG-8	294.0	282.8	285.0	0.0	0.0	0.0	0.0	0.0	0.0	293.5	288.8	
2	800	7/25	26	LR	SNG-8	289.0	277.0	281.8	0.0	0.0	0.0	0.0	0.0	0.0	286.6	283.6	5.2
3	800	7/27	26	RR	SNG-8	282.8	271.0	277.1	0.0	0.0	0.0	0.0	0.0	0.0	284.3	278.8	4.8
4	800	7/31	26	LR	SNG-8	277.3	266.1	273.3	0.0	0.0	0.0	0.0	0.0	0.0	277.0	273.5	5.3
5	800	8/ 2	26	RR	SNG-8	273.8	260.6	267.1	0.0	0.0	0.0	0.0	0.0	0.0	271.0	268.2	5.3
6	800	8/ 6	26	LR	SNG-8	269.3	256.5	263.3	0.0	0.0	0.0	0.0	0.0	0.0	267.1	264.1	4.1
7	800	8/ 8	26	RR	SNG-8	266.6	255.5	262.6	0.0	0.0	0.0	0.0	0.0	0.0	264.0	262.2	1.9
8	800	8/10	26	LR	SNG-8	261.6	251.0	258.3	0.0	0.0	0.0	0.0	0.0	0.0	260.3	257.8	4.4
9	800	8/14	26	RR	SNG-8	258.1	249.1	256.0	0.0	0.0	0.0	0.0	0.0	0.0	256.6	255.0	2.8
10	800	8/16	26	LR	SNG-8	255.3	247.3	253.1	0.0	0.0	0.0	0.0	0.0	0.0	254.6	252.6	2.4

Comments:

1 29 WET MILES
2 50 WET MILES
3 83 WET MILES
4 26 WET MILES
4 TACH INOPERATIVE
5 54 WET MILES
6 TACH INOPERATIVE
9 18 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401G (4) Sponsor Code 7928/73 Test No. 450007 Convoy 401

Inv.No. 3733 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	600	7/23	25	RF	SNG-8	302.5	284.3	285.1	0.0	0.0	0.0	0.0	0.0	0.0	300.1	293.0	
2	600	7/25	26	LF	SNG-8	298.8	279.6	280.6	0.0	0.0	0.0	0.0	0.0	0.0	296.6	289.0	4.0
3	800	7/27	26	RF	SNG-8	296.3	275.8	279.0	0.0	0.0	0.0	0.0	0.0	0.0	293.6	286.2	2.8
4	900	7/31	26	LF	SNG-8	287.0	270.8	271.5	0.0	0.0	0.0	0.0	0.0	0.0	286.1	278.9	7.3
5	800	8/ 2	26	RF	SNG-8	284.1	264.5	267.0	0.0	0.0	0.0	0.0	0.0	0.0	282.8	274.6	4.3
6	800	8/ 6	26	LF	SNG-8	280.0	260.6	263.6	0.0	0.0	0.0	0.0	0.0	0.0	278.0	270.6	4.0
7	800	8/ 8	26	RF	SNG-8	277.8	258.1	260.3	0.0	0.0	0.0	0.0	0.0	0.0	274.6	267.8	2.8
8	800	8/10	26	LF	SNG-8	271.5	254.5	256.1	0.0	0.0	0.0	0.0	0.0	0.0	270.1	263.1	4.7
9	800	8/14	26	RF	SNG-8	269.6	253.8	255.0	0.0	0.0	0.0	0.0	0.0	0.0	267.1	261.4	1.7
10	800	8/16	26	LF	SNG-8	263.8	248.6	250.3	0.0	0.0	0.0	0.0	0.0	0.0	262.1	256.3	5.1

Comments:

1 29 WET MILES
2 93 WET MILES
3 93 WET MILES
4 26 WET MILES
4 TACH INOPERATIVE
6 54 WET MILES
6 TACH INOPERATIVE
9 18 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401G (4) Sponsor Code 7928/73

Test No. 4S0007 Convoy 401

Inv.No. 3734 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LF	SNG-8	293.5	292.6	286.6	0.0	0.0	0.0	0.0	0.0	0.0	293.5	289.1	
2	800	7/25	26	RF	SNG-8	286.5	279.1	284.3	0.0	0.0	0.0	0.0	0.0	0.0	290.8	285.7	3.4
3	800	7/27	26	LF	SNG-8	285.8	273.3	291.3	0.0	0.0	0.0	0.0	0.0	0.0	288.0	282.1	3.6
4	800	7/31	26	RF	SNG-8	273.1	271.0	277.0	0.0	0.0	0.0	0.0	0.0	0.0	281.6	277.0	5.1
5	800	8/ 2	26	LF	SNG-8	275.0	265.8	274.0	0.0	0.0	0.0	0.0	0.0	0.0	277.1	273.0	4.0
6	800	8/ 6	26	RF	SNG-8	270.6	262.5	269.0	0.0	0.0	0.0	0.0	0.0	0.0	272.5	268.7	4.3
7	800	8/ 8	26	LF	SNG-8	265.8	257.6	266.6	0.0	0.0	0.0	0.0	0.0	0.0	270.0	265.0	3.7
8	800	8/10	26	RF	SNG-8	261.1	254.3	260.8	0.0	0.0	0.0	0.0	0.0	0.0	265.5	260.5	4.5
9	800	8/14	26	LF	SNG-8	257.3	250.0	260.0	0.0	0.0	0.0	0.0	0.0	0.0	263.6	257.8	2.7
10	800	8/16	26	RF	SNG-8	252.0	249.3	255.1	0.0	0.0	0.0	0.0	0.0	0.0	260.5	254.3	3.5

Comments:

1 29 WET MILES
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
4 TACH INOPERATIVE
6 54 WET MILES
6 TACH INOPERATIVE
9 16 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 4018 (5) Sponsor Code 7928/74 Test No. 450007 Convoy 401

Inv.No. 3741 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	293.5	299.6	299.0	0.0	0.0	0.0	0.0	0.0	0.0	287.8	295.0	
2	800	7/25	26	RR	SNG-8	283.3	294.1	294.3	0.0	0.0	0.0	0.0	0.0	0.0	286.0	289.5	5.5
3	800	7/27	26	LR	SNG-8	278.6	287.1	287.6	0.0	0.0	0.0	0.0	0.0	0.0	279.0	283.1	6.4
4	800	7/31	26	RR	SNG-8	270.0	278.6	281.5	0.0	0.0	0.0	0.0	0.0	0.0	271.3	275.4	7.7
5	800	8/ 2	26	LR	SNG-8	264.0	272.8	274.5	0.0	0.0	0.0	0.0	0.0	0.0	264.1	268.9	6.5
6	800	8/ 6	26	RR	SNG-8	256.0	266.6	269.0	0.0	0.0	0.0	0.0	0.0	0.0	259.8	262.9	6.0
7	800	8/ 8	26	LR	SNG-8	251.5	261.6	264.0	0.0	0.0	0.0	0.0	0.0	0.0	254.1	257.8	5.1
8	800	8/10	26	RR	SNG-8	244.6	256.6	259.8	0.0	0.0	0.0	0.0	0.0	0.0	248.3	252.4	5.4
9	800	8/14	26	LR	SNG-8	242.6	252.3	254.6	0.0	0.0	0.0	0.0	0.0	0.0	244.3	248.5	3.9
10	800	8/16	26	RR	SNG-8	235.8	246.5	252.5	0.0	0.0	0.0	0.0	0.0	0.0	238.5	243.3	5.2

Comments:

1 29 WET MILES
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
5 TACH INOPERATIVE DURING CIRCUIT 1.
6 54 WET MILES
6 TACH INOPERATIVE
9 18 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 4013 (5) Sponsor Code 7928/74 Test No. 450007 Convoy 401

Inv.No. 3742 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	300	7/23	25	RR	SNG-8	287.8	300.3	299.1	0.0	0.0	0.0	0.0	0.0	0.0	291.1	294.6	
2	300	7/25	26	LR	SNG-8	278.6	293.0	291.5	0.0	0.0	0.0	0.0	0.0	0.0	280.3	285.9	8.7
3	800	7/27	26	RR	SNG-9	271.0	286.3	284.6	0.0	0.0	0.0	0.0	0.0	0.0	272.8	278.7	7.2
4	800	7/31	26	LR	SNG-8	262.5	278.5	276.0	0.0	0.0	0.0	0.0	0.0	0.0	261.5	269.6	9.1
5	300	8/ 2	26	RR	SNG-8	252.5	269.8	269.3	0.0	0.0	0.0	0.0	0.0	0.0	255.6	261.8	7.8
6	300	8/ 6	25	LR	SNG-8	249.3	263.8	263.8	0.0	0.0	0.0	0.0	0.0	0.0	248.5	256.1	5.7
7	800	8/ 8	26	RR	SNG-8	242.3	259.3	258.2	0.0	0.0	0.0	0.0	0.0	0.0	241.8	250.5	5.6
8	800	8/10	26	LR	SNG-8	238.8	254.8	253.6	0.0	0.0	0.0	0.0	0.0	0.0	235.0	245.6	4.9
9	800	8/14	26	RR	SNG-8	232.0	249.8	248.1	0.0	0.0	0.0	0.0	0.0	0.0	231.0	240.3	5.3
10	800	8/16	26	LR	SNG-8	226.0	244.8	243.6	0.0	0.0	0.0	0.0	0.0	0.0	225.6	235.0	5.3

Comments:

1 29 WET MILES
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
5 TACH INOPERATIVE DURING CIRCUIT 1.
6 54 WET MILES
6 TACH INOPERATIVE
9 15 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401E (5) Sponsor Code 7928/74 Test No. 450007 Convoy 401

Inv.No. 3743 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RF	SNG-8	292.3	301.0	298.1	0.0	0.0	0.0	0.0	0.0	0.0	289.3	295.2	
2	800	7/25	26	LF	SNG-8	283.1	293.5	293.3	0.0	0.0	0.0	0.0	0.0	0.0	284.6	288.7	6.5
3	800	7/27	26	RF	SNG-8	275.0	285.5	289.1	0.0	0.0	0.0	0.0	0.0	0.0	276.3	281.8	6.9
4	800	7/31	26	LF	SNG-8	266.5	278.6	279.6	0.0	0.0	0.0	0.0	0.0	0.0	268.6	273.4	8.4
5	800	8/ 2	26	RF	SNG-8	259.3	271.5	271.8	0.0	0.0	0.0	0.0	0.0	0.0	260.1	265.7	7.7
6	800	8/ 6	25	LF	SNG-8	253.6	265.6	266.3	0.0	0.0	0.0	0.0	0.0	0.0	255.5	260.3	5.4
7	800	8/ 8	26	RF	SNG-8	251.5	261.3	262.5	0.0	0.0	0.0	0.0	0.0	0.0	251.3	256.7	3.6
8	800	8/10	26	LF	SNG-8	241.2	256.0	257.1	0.0	0.0	0.0	0.0	0.0	0.0	244.8	249.8	6.9
9	800	8/14	26	RF	SNG-8	238.1	251.6	253.6	0.0	0.0	0.0	0.0	0.0	0.0	239.6	245.8	4.0
10	800	8/16	26	LF	SNG-8	233.8	247.0	249.8	0.0	0.0	0.0	0.0	0.0	0.0	234.0	240.9	4.9

Comments:

1 25 WET MILES
2 90 WET MILES
3 83 WET MILES
4 26 WET MILES
5 TACH INOPERATIVE DURING CIRCUIT 1.
6 54 WET MILES
6 TACH INOPERATIVE
9 13 WET MILES
10 53 WET MILES

Psi: Post run inflstion. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 401E (5) Sponsor Code 7928/74 Test No. 450007 Convoy 401

Inv.No. 3734 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LF	SNG-8	290.1	299.1	298.1	0.0	0.0	0.0	0.0	0.0	0.0	290.8	294.6	
2	800	7/25	26	RF	SNG-8	280.3	295.1	294.1	0.0	0.0	0.0	0.0	0.0	0.0	286.0	288.9	5.7
3	800	7/27	26	LF	SNG-8	276.5	292.1	287.5	0.0	0.0	0.0	0.0	0.0	0.0	280.8	284.3	4.6
4	800	7/31	26	RF	SNG-8	266.8	281.6	278.0	0.0	0.0	0.0	0.0	0.0	0.0	271.6	274.5	9.8
5	800	8/ 2	26	LF	SNG-8	259.3	273.6	271.5	0.0	0.0	0.0	0.0	0.0	0.0	264.3	267.2	7.3
6	800	8/ 6	25	RF	SNG-8	254.3	268.0	267.6	0.0	0.0	0.0	0.0	0.0	0.0	259.3	262.3	4.9
7	800	8/ 8	25	LF	SNG-8	249.6	265.0	262.6	0.0	0.0	0.0	0.0	0.0	0.0	253.6	257.8	4.5
8	800	8/10	26	RF	SNG-8	244.5	260.6	258.3	0.0	0.0	0.0	0.0	0.0	0.0	248.5	253.0	4.8
9	800	8/14	26	LF	SNG-8	228.1	257.1	253.8	0.0	0.0	0.0	0.0	0.0	0.0	243.3	248.1	4.9
10	800	8/16	26	RF	SNG-8	232.3	251.5	249.5	0.0	0.0	0.0	0.0	0.0	0.0	238.5	243.0	5.1

Comments:

1 29 WET MILES
2 90 WET MILES
3 83 WET MILES
4 25 WET MILES
5 TACH INOPERATIVE DURING CIRCUIT 1.
6 54 WET MILES
6 TACH INOPERATIVE
9 13 WET MILES
10 53 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 3
REF NO. NRD-002 TEST 4S0008 Date 7/13/84
CONVOY 302 COURSE MONITORING TIRES (CMT) CMT / XXXXX

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
Tire	- - - - - - W E A R - - - - - - - - - - - - - - - - - -									
11111	306.0	305.8	305.9	305.6	306.0	306.5	305.7	306.3	305.8	
										Intercept a 305.87
										Wear Rate b -0.02
22222	306.8	305.6	306.4	306.6	305.9	305.8	306.0	305.4	305.7	
										Intercept a 306.46
										Wear Rate b 0.14

Average Intercept 306.170
Average Wear 0.065 Base Wear Rate 00.06 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 7200 MILES (INCL. BI)

	Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/81						
- 1	3.52	360.64	3.52	85641	285.5	280
- 2	3.25	359.89	3.25	92458	308.2	300
- 3	3.45	361.72	3.45	87675	292.3	290
- 4	3.31	360.93	3.31	91111	303.7	300
7928/82						
- 1	4.58	337.86	4.58	61031	203.4	200
- 2	3.00	345.07	3.00	95157	317.2	310
- 3	4.20	339.87	4.20	66960	223.2	220
- 4	4.27	335.43	4.27	64835	216.1	210
7928/83						
- 1	5.19	287.45	5.19	44239	147.5	140
- 2	5.07	292.68	5.07	46299	154.3	150
- 3	5.19	286.14	5.19	43987	146.6	140
- 4	5.32	299.56	5.32	45454	151.5	150
7928/84						
- 1	7.31	294.03	7.31	32541	108.5	100
- 2	7.98	293.56	7.98	29818	99.4	90
- 3	7.25	294.72	7.25	32899	109.7	100
- 4	7.34	298.41	7.34	33008	110.0	110

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 3
REF NO. NRC-002 TEST 4S0008 Date 7/13/84
CONVOY 302 COURSE MONITORING TIRES (CMT) CMT / XXXXX

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
Tire	- - - - - - W E A R -										
11111	306.0	305.8	305.9	305.6	306.0	306.5	305.7	306.3	305.8	305.8	
									Intercept a		305.91
									Wear Rate b		0.00
22222	306.8	305.6	306.4	306.6	305.9	305.8	306.0	305.4	305.7	305.0	
									Intercept a		306.53
									Wear Rate b		0.17

Average Intercept 306.225
Average wear 0.090 Base Wear Rate 00.09 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 8000 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/81							
	- 1	3.51	360.61	3.51	85874	286.2	280
	- 2	3.34	360.08	3.34	90046	300.2	300
	- 3	3.51	361.85	3.51	86227	287.4	280
	- 4	3.39	361.10	3.39	89030	296.8	290
7928/82							
	- 1	4.59	337.86	4.59	60905	203.0	200
	- 2	3.01	345.09	3.01	94850	316.2	310
	- 3	4.15	339.77	4.15	67733	225.8	220
	- 4	4.21	335.31	4.21	65719	219.1	210
7928/83							
	- 1	5.06	287.18	5.06	45302	151.0	150
	- 2	4.97	292.48	4.97	47174	157.2	150
	- 3	5.08	285.91	5.08	44877	149.6	140
	- 4	5.19	299.29	5.19	46521	155.1	150
7928/84							
	- 1	7.22	293.85	7.22	32912	109.7	100
	- 2	7.74	293.06	7.74	30653	102.2	100
	- 3	7.03	294.26	7.03	33838	112.8	110
	- 4	7.18	298.08	7.18	33680	112.3	110

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 4S0008 Convoy 302 Candidate Group 302X Ref.#NRD-002
7928/81

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
3811	362.0	357.8	354.9	350.6	348.8	346.2	344.3	341.2	338.6	335.5	
									Intercept a		360.61
									Wear Rate b		3.51
3812	361.0	357.0	355.3	350.7	348.8	346.6	344.0	342.5	339.5	335.2	
									Intercept a		360.08
									Wear Rate b		3.34
3813	362.0	358.8	357.5	352.1	350.3	347.8	345.2	342.4	340.1	336.1	
									Intercept a		361.85
									Wear Rate b		3.51
3814	360.4	358.7	356.8	353.1	349.2	347.5	344.6	342.3	340.5	335.9	
									Intercept a		361.10
									Wear Rate b		3.39

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3811	7/23/84	BI1	800	25.29	7.80	125.7	65
3811	8/16/84	08	8000	25.26	7.80	173.1	68
3812	7/23/84	BI1	800	25.29	7.80	127.8	66
3812	8/16/84	08	8000	25.25	7.80	177.2	69
3813	7/23/84	BI1	800	25.29	7.80	124.0	66
3813	8/16/84	08	8000	25.26	7.80	178.1	68
3814	7/23/84	BI1	800	25.29	7.80	128.7	66
3814	8/16/84	08	8000	25.25	7.80	180.7	68

M E A S U R E M E N T D A T A F I L E

Test 450008 Convoy 302 Candidate Group 302M Ref.#NRD-002
7928/82

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
3821	339.0	332.9	332.1	325.9	322.3	319.7	315.1	312.2	309.6	304.7	
									Intercept a		337.88
									Wear Rate b		4.59
3822	343.9	342.8	342.5	337.8	335.1	332.3	330.7	327.5	326.6	323.4	
									Intercept a		345.09
									Wear Rate b		3.01
3823	339.1	337.1	334.1	330.3	325.4	322.4	319.5	316.9	313.1	310.4	
									Intercept a		339.77
									Wear Rate b		4.15
3824	334.9	332.5	330.0	325.1	320.2	317.7	315.6	311.9	308.2	305.6	
									Intercept a		335.31
									Wear Rate b		4.21

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3821	7/23/84	BI1	800	25.42	8.00	120.8	66
3821	8/16/84	08	8000	25.38	8.05	169.2	72
3822	7/23/84	BI1	800	25.38	8.00	124.0	65
3822	8/16/84	08	8000	25.36	8.05	167.6	67
3823	7/23/84	BI1	800	25.41	7.80	122.0	65
3823	8/16/84	08	8000	25.39	8.05	168.4	72
3824	7/23/84	BI1	800	25.43	8.00	114.5	66
3824	8/16/84	08	8000	25.40	8.00	159.0	71

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San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 4S0008 Convoy 302 Candidate Group 302G Ref.*NRD-002
7928/83

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000	
TIRE	- - - - - - W E A R -										
3831	288.8	283.1	279.9	274.0	269.0	266.0	262.8	258.6	255.5	251.9	
									Intercept a		287.18
									wear Rate b		5.06
3832	293.9	287.9	285.3	279.5	276.5	271.3	268.2	264.0	261.6	257.6	
									Intercept a		292.48
									wear Rate b		4.97
3833	287.3	283.6	278.0	271.3	268.2	263.8	261.0	258.3	254.4	250.4	
									Intercept a		285.91
									wear Rate b		5.08
3834	301.4	295.4	291.2	285.0	281.3	277.7	273.4	270.6	266.9	263.2	
									Intercept a		299.29
									wear Rate b		5.19

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3831	7/23/84	BI1	800	25.27	7.80	153.7	64
3831	8/16/84	08	8000	25.22	7.80	157.0	69
3832	7/23/84	BI1	800	25.26	7.80	146.4	66
3832	8/16/84	08	8000	25.20	7.80	150.0	70
3833	7/23/84	BI1	800	25.26	7.80	165.4	67
3833	8/16/84	08	8000	25.20	7.90	172.3	73
3834	7/23/84	BI1	800	25.24	7.80	153.7	67
3834	8/16/84	08	8000	25.20	7.80	159.7	70

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Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 4S0008 Convoy 302 Candidate Group 302B Ref.#NRD-002
7928/84

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
TIRE	- - - - - - W E A R -									
3841	294.6	288.7	283.7	275.5	268.8	263.7	258.5	253.2	249.0	242.7
									Intercept a	293.85
									Wear Rate b	7.22
3842	295.6	288.3	280.6	272.0	265.8	260.8	255.3	249.8	244.2	239.6
									Intercept a	293.06
									Wear Rate b	7.74
3843	293.9	289.8	284.8	277.0	270.2	264.5	260.4	254.3	248.9	245.7
									Intercept a	294.26
									Wear Rate b	7.03
3844	299.2	293.3	287.2	279.1	274.5	267.6	263.0	257.5	253.0	247.8
									Intercept a	298.08
									Wear Rate b	7.18

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3841	7/23/84	BI1	800	25.31	7.80	153.1	67
3841	8/16/84	08	8000	25.23	7.85	149.4	73
3842	7/23/84	BI1	800	25.31	7.80	147.6	66
3842	8/16/84	08	8000	25.24	7.85	149.4	73
3843	7/23/84	BI1	800	25.31	7.80	140.4	67
3843	8/16/84	08	8000	25.23	7.85	149.4	73
3844	7/23/84	BI1	800	25.31	7.80	139.3	68
3844	8/16/84	08	8000	25.23	7.85	145.3	75

T R E A D L O S S S U M M A R Y

Group 302X (2) Sponsor Code 7928/81 Test No. 450008 Convoy 302

Inv.No. 3811 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	377.1	346.3	347.3	0.0	0.0	0.0	0.0	0.0	0.0	377.0	362.0	
2	800	7/25	26	RR	SNG-8	372.1	343.5	343.0	0.0	0.0	0.0	0.0	0.0	0.0	372.5	357.8	4.2
3	800	7/27	26	LR	SNG-8	368.1	341.1	340.0	0.0	0.0	0.0	0.0	0.0	0.0	370.3	354.9	2.9
4	800	7/31	26	RR	SNG-8	363.5	337.1	336.5	0.0	0.0	0.0	0.0	0.0	0.0	365.3	350.6	4.3
5	800	8/ 2	26	LR	SNG-8	363.0	334.6	334.8	0.0	0.0	0.0	0.0	0.0	0.0	362.8	348.8	1.8
6	800	8/ 6	26	RR	SNG-8	358.6	333.0	332.5	0.0	0.0	0.0	0.0	0.0	0.0	360.5	346.2	2.6
7	800	8/ 8	26	LR	SNG-8	356.6	331.1	330.8	0.0	0.0	0.0	0.0	0.0	0.0	358.3	344.3	1.9
8	800	8/10	26	RR	SNG-8	352.8	327.5	328.8	0.0	0.0	0.0	0.0	0.0	0.0	355.5	341.2	3.1
9	800	8/14	26	LR	SNG-8	350.6	324.6	327.0	0.0	0.0	0.0	0.0	0.0	0.0	352.1	338.6	2.6
10	800	8/16	26	RR	SNG-8	346.8	323.0	323.3	0.0	0.0	0.0	0.0	0.0	0.0	349.0	335.5	3.1

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302X (2) Sponsor Code 7926/81 Test No. 450008 Convoy 302

Inv.No. 3812 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RR	SNG-8	375.0	345.8	347.5	0.0	0.0	0.0	0.0	0.0	0.0	375.6	361.0	
2	800	7/25	26	LR	SNG-8	371.6	342.8	342.8	0.0	0.0	0.0	0.0	0.0	0.0	370.5	357.0	4.0
3	800	7/27	26	RR	SNG-8	367.6	340.0	342.8	0.0	0.0	0.0	0.0	0.0	0.0	370.5	355.3	1.7
4	800	7/31	26	LR	SNG-8	364.5	335.1	336.6	0.0	0.0	0.0	0.0	0.0	0.0	366.3	350.7	4.6
5	800	8/ 2	26	RR	SNG-8	363.1	334.6	335.3	0.0	0.0	0.0	0.0	0.0	0.0	361.8	348.8	1.9
6	800	8/ 6	26	LR	SNG-8	361.6	332.3	333.1	0.0	0.0	0.0	0.0	0.0	0.0	359.3	346.6	2.2
7	800	8/ 8	26	RR	SNG-8	358.5	329.5	330.6	0.0	0.0	0.0	0.0	0.0	0.0	357.1	344.0	2.6
8	800	8/10	26	LR	SNG-8	355.0	329.3	330.1	0.0	0.0	0.0	0.0	0.0	0.0	355.3	342.5	1.5
9	800	8/14	26	RR	SNG-8	349.8	325.6	329.0	0.0	0.0	0.0	0.0	0.0	0.0	353.5	339.5	3.0
10	800	8/16	26	LR	SNG-8	348.0	321.8	323.0	0.0	0.0	0.0	0.0	0.0	0.0	348.0	335.2	4.3

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302X (2) Sponsor Code 7928/81

Test No. 450008 Convoy 302

Inv.No. 3813 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RF	SNG-8	377.5	346.6	348.3	0.0	0.0	0.0	0.0	0.0	0.0	375.3	362.0	
2	800	7/25	26	LF	SNG-8	373.8	344.1	345.1	0.0	0.0	0.0	0.0	0.0	0.0	371.8	358.8	3.2
3	800	7/27	26	RF	SNG-8	371.6	343.0	343.0	0.0	0.0	0.0	0.0	0.0	0.0	372.5	357.5	1.3
4	800	7/31	26	LF	SNG-8	366.5	336.5	338.3	0.0	0.0	0.0	0.0	0.0	0.0	366.8	352.1	5.4
5	800	8/ 2	26	RF	SNG-8	364.3	336.5	338.0	0.0	0.0	0.0	0.0	0.0	0.0	362.5	350.3	1.8
6	800	8/ 6	26	LF	SNG-8	361.6	334.1	334.8	0.0	0.0	0.0	0.0	0.0	0.0	360.6	347.8	2.5
7	800	8/ 8	26	RF	SNG-8	359.8	332.0	332.3	0.0	0.0	0.0	0.0	0.0	0.0	356.6	345.2	2.6
8	800	8/10	26	LF	SNG-8	355.1	328.0	331.3	0.0	0.0	0.0	0.0	0.0	0.0	355.1	342.4	2.8
9	800	8/14	26	RF	SNG-8	352.8	326.5	328.1	0.0	0.0	0.0	0.0	0.0	0.0	353.0	340.1	2.3
10	800	8/16	26	LF	SNG-8	348.6	323.5	325.3	0.0	0.0	0.0	0.0	0.0	0.0	346.8	336.1	4.0

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302X (2) Sponsor Code 7922/E1 Test No. 450008 Convoy 302

Inv.No. 3814 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	26	LF	SNG-8	375.5	345.3	346.3	0.0	0.0	0.0	0.0	0.0	0.0	374.5	360.4	
2	800	7/25	26	RF	SNG-8	372.0	343.0	345.6	0.0	0.0	0.0	0.0	0.0	0.0	374.0	358.7	1.7
3	800	7/27	26	LF	SNG-8	369.5	342.5	344.1	0.0	0.0	0.0	0.0	0.0	0.0	371.0	356.8	1.9
4	800	7/31	26	RF	SNG-8	366.0	340.6	338.6	0.0	0.0	0.0	0.0	0.0	0.0	367.1	353.1	3.7
5	800	8/ 2	26	LF	SNG-8	361.5	336.5	334.6	0.0	0.0	0.0	0.0	0.0	0.0	364.0	349.2	3.9
6	800	8/ 6	26	RF	SNG-8	360.1	334.1	334.3	0.0	0.0	0.0	0.0	0.0	0.0	361.3	347.5	1.7
7	800	8/ 8	26	LF	SNG-8	356.1	331.3	332.6	0.0	0.0	0.0	0.0	0.0	0.0	358.3	344.6	2.9
8	800	8/10	26	RF	SNG-8	353.8	329.5	331.1	0.0	0.0	0.0	0.0	0.0	0.0	354.5	342.3	2.3
9	800	8/14	26	LF	SNG-8	352.1	329.1	328.0	0.0	0.0	0.0	0.0	0.0	0.0	352.5	340.5	1.8
10	800	8/16	26	RF	SNG-8	347.6	324.8	323.8	0.0	0.0	0.0	0.0	0.0	0.0	347.3	335.9	-.6

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302M (3) Sponsor Code 7928/82 Test No. 4S0008 Convoy 302

Inv.No. 3921 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	337.6	341.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.0	339.0	
2	800	7/25	26	RR	SNG-8	330.5	336.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.1	332.9	6.1
3	800	7/27	26	LR	SNG-8	329.1	336.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.8	332.1	0.8
4	800	7/31	26	RR	SNG-8	322.3	330.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.8	325.9	6.2
5	800	8/ 2	26	LR	SNG-8	318.6	327.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.8	322.3	3.6
6	800	8/ 6	26	RR	SNG-8	317.0	324.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	317.8	319.7	2.6
7	800	8/ 8	26	LR	SNG-8	312.6	321.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	311.5	315.1	4.6
8	800	8/10	26	RR	SNG-8	309.1	317.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	309.6	312.2	2.9
9	800	8/14	26	LR	SNG-8	304.6	317.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	307.0	309.6	2.6
10	800	8/16	26	RR	SNG-8	300.3	310.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303.1	304.7	4.9

Comments:

5 TACH INOPERATIVE
5 VEHICLE # 1409 REPLACED VEHICLE #1404
5 ON CIRCUIT 2.
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302M (3) Sponsor Code 7928/82 Test No. 4S0008 Convoy 302

Inv.No. 3822 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RR	SNG-8	343.1	346.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	342.6	343.9	
2	800	7/25	26	LR	SNG-8	343.0	344.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	341.1	342.8	1.1
3	800	7/27	26	RR	SNG-8	343.0	345.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.5	342.5	0.3
4	800	7/31	26	LR	SNG-8	337.8	340.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.5	337.8	4.7
5	800	8/ 2	26	RR	SNG-8	336.1	337.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.1	335.1	2.7
6	800	8/ 6	26	LR	SNG-8	330.5	335.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.5	332.3	2.8
7	800	8/ 8	26	RR	SNG-8	329.5	333.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.0	330.7	1.6
8	800	8/10	26	LR	SNG-8	328.1	328.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.8	327.5	3.2
9	800	8/14	26	RR	SNG-8	327.1	330.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.0	326.6	0.9
10	800	8/16	26	LR	SNG-8	324.3	326.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	319.6	323.4	3.2

Comments:

5 TACH INOPERATIVE
5 VEHICLE # 1409 REPLACED VEHICLE #1404
5 ON CIRCUIT 2.
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302M (3) Sponsor Code 7928/82 Test No. 4S0008 Convoy 302

Inv.No. 3823 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RF	SNG-8	335.8	342.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.9	339.1	
2	800	7/25	26	LF	SNG-8	333.8	340.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.3	337.1	2.0
3	800	7/27	26	RF	SNG-8	333.6	336.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.0	334.1	3.0
4	800	7/31	26	LF	SNG-8	328.1	334.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.8	330.3	3.8
5	800	8/ 2	26	RF	SNG-8	323.6	328.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.1	325.4	4.9
6	800	8/ 6	26	LF	SNG-8	320.8	326.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	319.5	322.4	3.0
7	800	8/ 8	26	RF	SNG-8	317.1	323.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.1	319.5	2.9
8	800	8/10	26	LF	SNG-8	314.1	321.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.3	316.9	2.6
9	800	8/14	26	RF	SNG-8	309.0	318.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	311.6	313.1	3.8
10	800	8/16	26	LF	SNG-8	303.0	315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	309.1	310.4	2.7

Comments:

5 TACH INOPERATIVE
5 VEHICLE # 1409 REPLACED VEHICLE #1404
5 ON CIRCUIT 2.
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302M (3) Sponsor Code 7928/92 Test No. 450009 Convoy 302

Inv.No. 3824 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	26	LF	SNG-8	333.8	340.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.8	334.9	
2	800	7/25	26	RF	SNG-8	331.6	339.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.3	332.5	2.4
3	800	7/27	26	LF	SNG-8	327.1	336.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.3	330.0	2.5
4	800	7/31	26	RF	SNG-8	323.5	332.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	319.5	325.1	4.9
5	800	8/ 2	26	LF	SNG-8	318.0	328.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.6	320.2	4.9
6	800	8/ 6	26	RF	SNG-8	315.3	325.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	312.5	317.7	2.5
7	800	8/ 8	26	LF	SNG-8	313.3	324.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	309.3	315.6	2.1
8	800	8/10	26	RF	SNG-8	309.0	319.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	307.3	311.9	3.7
9	800	8/14	26	LF	SNG-8	305.3	315.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303.5	308.2	3.7
10	800	8/16	26	RF	SNG-8	302.5	315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	299.3	305.6	2.6

Comments:

5 TACH INOPERATIVE
5 VEHICLE # 1409 REPLACED VEHICLE #1404
5 ON CIRCUIT 2.
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 3020 (4) Sponsor Code 7928/83 Test No. 450008 Convoy 302

Inv.No. 3831 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	296.3	282.0	284.6	0.0	0.0	0.0	0.0	0.0	0.0	292.3	288.8	
2	800	7/25	26	RR	SNG-8	289.1	275.5	280.0	0.0	0.0	0.0	0.0	0.0	0.0	287.6	283.1	5.7
3	800	7/27	26	LR	SNG-8	287.8	273.3	275.1	0.0	0.0	0.0	0.0	0.0	0.0	283.1	279.9	3.2
4	800	7/31	26	RR	SNG-8	281.5	267.1	270.5	0.0	0.0	0.0	0.0	0.0	0.0	277.0	274.0	5.9
5	800	8/ 2	26	LR	SNG-8	276.8	262.3	265.1	0.0	0.0	0.0	0.0	0.0	0.0	271.6	269.0	5.0
6	800	8/ 6	26	RR	SNG-8	274.0	258.5	263.3	0.0	0.0	0.0	0.0	0.0	0.0	268.3	266.0	3.0
7	800	8/ 8	26	LR	SNG-8	270.8	255.5	260.3	0.0	0.0	0.0	0.0	0.0	0.0	264.5	262.8	3.2
8	800	8/10	26	RR	SNG-8	265.5	254.3	254.1	0.0	0.0	0.0	0.0	0.0	0.0	260.5	259.6	4.2
9	800	8/14	26	LR	SNG-8	263.0	250.1	253.3	0.0	0.0	0.0	0.0	0.0	0.0	255.3	255.5	3.1
10	800	8/16	26	RR	SNG-8	260.0	248.5	247.8	0.0	0.0	0.0	0.0	0.0	0.0	251.1	251.9	3.6

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302G (4) Sponsor Code 7928/93 Test No. 450008 Convoy 302

Inv.No. 3832 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	26	RR	SNG-8	298.3	296.1	290.1	0.0	0.0	0.0	0.0	0.0	0.0	301.0	293.9	
2	800	7/25	26	LR	SNG-8	295.6	279.0	283.8	0.0	0.0	0.0	0.0	0.0	0.0	293.1	287.9	6.0
3	800	7/27	26	RR	SNG-8	291.1	277.1	280.6	0.0	0.0	0.0	0.0	0.0	0.0	292.1	285.3	2.6
4	800	7/31	26	LR	SNG-8	286.6	271.3	276.0	0.0	0.0	0.0	0.0	0.0	0.0	283.8	279.5	5.8
5	800	8/ 2	26	RR	SNG-8	283.5	267.5	273.5	0.0	0.0	0.0	0.0	0.0	0.0	281.5	276.5	3.0
6	800	8/ 6	26	LR	SNG-8	278.6	262.6	267.5	0.0	0.0	0.0	0.0	0.0	0.0	276.1	271.3	5.2
7	800	8/ 8	26	RR	SNG-8	274.3	260.8	265.3	0.0	0.0	0.0	0.0	0.0	0.0	272.3	268.2	3.1
8	800	8/10	26	LR	SNG-8	271.5	257.3	259.5	0.0	0.0	0.0	0.0	0.0	0.0	267.5	264.0	4.2
9	800	8/14	26	RR	SNG-8	268.5	252.5	257.6	0.0	0.0	0.0	0.0	0.0	0.0	267.8	261.6	2.4
10	800	8/16	26	LR	SNG-8	262.8	250.5	255.1	0.0	0.0	0.0	0.0	0.0	0.0	262.0	257.6	4.0

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 3020 (4) Sponsor Code 7528/83 Test No. 450008 Convoy 302

Inv.No. 3833 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	26	RF	SNG-8	292.3	280.5	284.6	0.0	0.0	0.0	0.0	0.0	0.0	291.9	287.3	
2	900	7/25	26	LF	SNG-8	288.1	277.1	282.5	0.0	0.0	0.0	0.0	0.0	0.0	286.6	283.6	3.7
3	900	7/27	26	RF	SNG-8	282.5	272.1	275.5	0.0	0.0	0.0	0.0	0.0	0.0	282.0	278.0	5.6
4	800	7/31	26	LF	SNG-8	276.8	264.3	270.6	0.0	0.0	0.0	0.0	0.0	0.0	273.5	271.3	6.7
5	800	8/ 2	26	RF	SNG-8	274.1	261.1	267.6	0.0	0.0	0.0	0.0	0.0	0.0	269.5	268.2	3.1
6	800	8/ 6	26	LF	SNG-8	269.3	257.5	264.1	0.0	0.0	0.0	0.0	0.0	0.0	264.1	263.8	4.4
7	800	8/ 8	26	RF	SNG-8	265.6	255.1	262.5	0.0	0.0	0.0	0.0	0.0	0.0	260.8	261.0	2.8
8	800	8/10	26	LF	SNG-8	263.3	252.0	258.6	0.0	0.0	0.0	0.0	0.0	0.0	259.0	258.3	2.7
9	800	8/14	26	RF	SNG-8	260.1	249.6	255.3	0.0	0.0	0.0	0.0	0.0	0.0	252.5	254.4	3.9
10	800	8/16	26	LF	SNG-8	256.0	244.8	251.1	0.0	0.0	0.0	0.0	0.0	0.0	249.5	250.4	4.0

Comments:
10 26 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302G (4) Sponsor Code 7928/83 Test No. 450008 Convoy 302

Inv.No. 3834 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	7/23	26	LF	SNG-8	312.1	289.8	293.6	0.0	0.0	0.0	0.0	0.0	0.0	309.8	301.4	
2	800	7/25	26	RF	SNG-8	307.0	283.8	288.3	0.0	0.0	0.0	0.0	0.0	0.0	302.5	295.4	6.0
3	800	7/27	26	LF	SNG-8	302.0	278.8	284.6	0.0	0.0	0.0	0.0	0.0	0.0	299.1	291.2	4.2
4	800	7/31	26	RF	SNG-8	297.0	274.3	277.3	0.0	0.0	0.0	0.0	0.0	0.0	291.3	285.0	6.2
5	800	8/ 2	26	LF	SNG-8	293.8	269.5	275.0	0.0	0.0	0.0	0.0	0.0	0.0	286.6	281.3	3.7
6	800	8/ 6	26	RF	SNG-8	290.6	267.6	268.6	0.0	0.0	0.0	0.0	0.0	0.0	283.6	277.7	3.6
7	800	8/ 8	26	LF	SNG-8	286.3	263.0	266.8	0.0	0.0	0.0	0.0	0.0	0.0	277.3	273.4	4.3
8	800	8/10	26	RF	SNG-8	283.1	262.1	262.5	0.0	0.0	0.0	0.0	0.0	0.0	274.6	270.6	2.8
9	800	8/14	26	LF	SNG-8	279.0	257.1	259.8	0.0	0.0	0.0	0.0	0.0	0.0	271.6	266.9	3.7
10	800	8/16	26	RF	SNG-8	276.8	252.6	257.0	0.0	0.0	0.0	0.0	0.0	0.0	266.1	263.2	3.7

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 3028 (5) Sponsor Code 7928/84 Test No. 450008 Convoy 302

Inv.No. 3841 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	289.0	299.8	299.0	0.0	0.0	0.0	0.0	0.0	0.0	290.5	294.6	
2	800	7/25	26	RR	SNG-8	282.8	294.1	293.1	0.0	0.0	0.0	0.0	0.0	0.0	284.5	288.7	5.9
3	800	7/27	26	LR	SNG-8	279.1	289.1	287.6	0.0	0.0	0.0	0.0	0.0	0.0	278.8	283.7	5.0
4	800	7/31	26	RR	SNG-8	268.3	279.8	281.3	0.0	0.0	0.0	0.0	0.0	0.0	272.3	275.5	8.2
5	800	8/ 2	26	LR	SNG-8	260.8	273.8	275.3	0.0	0.0	0.0	0.0	0.0	0.0	265.3	268.8	6.7
6	800	8/ 6	26	RR	SNG-8	253.8	269.1	270.5	0.0	0.0	0.0	0.0	0.0	0.0	261.3	263.7	5.1
7	800	8/ 8	26	LR	SNG-8	248.8	264.6	264.5	0.0	0.0	0.0	0.0	0.0	0.0	255.8	258.5	5.2
8	800	8/10	26	RR	SNG-8	243.8	259.8	259.6	0.0	0.0	0.0	0.0	0.0	0.0	249.5	253.2	5.3
9	800	8/14	26	LR	SNG-8	239.1	254.9	256.5	0.0	0.0	0.0	0.0	0.0	0.0	245.5	249.0	4.2
10	800	8/16	26	RR	SNG-8	233.3	249.1	250.8	0.0	0.0	0.0	0.0	0.0	0.0	237.5	242.7	6.3

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 302E (5) Sponsor Code 7928/84 Test No. 450008 Convoy 302

Inv.No. 3842 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	600	7/23	26	RR	SNG-8	289.0	301.1	302.0	0.0	0.0	0.0	0.0	0.0	0.0	290.3	295.6	
2	600	7/25	26	LR	SNG-8	292.1	296.5	294.9	0.0	0.0	0.0	0.0	0.0	0.0	279.8	288.3	7.3
3	600	7/27	26	RR	SNG-8	273.6	288.5	287.3	0.0	0.0	0.0	0.0	0.0	0.0	272.8	280.6	7.7
4	600	7/31	26	LR	SNG-8	263.5	280.0	280.9	0.0	0.0	0.0	0.0	0.0	0.0	263.8	272.0	8.6
5	600	8/ 2	26	RR	SNG-8	256.0	274.3	275.3	0.0	0.0	0.0	0.0	0.0	0.0	257.6	265.8	6.2
6	600	8/ 6	26	LR	SNG-8	251.1	269.1	271.6	0.0	0.0	0.0	0.0	0.0	0.0	251.0	260.8	5.0
7	600	8/ 8	26	RR	SNG-8	246.0	264.5	265.3	0.0	0.0	0.0	0.0	0.0	0.0	245.1	255.3	5.5
8	600	8/10	26	LR	SNG-8	240.1	259.6	261.1	0.0	0.0	0.0	0.0	0.0	0.0	239.3	249.8	5.5
9	600	8/14	26	RR	SNG-8	233.5	255.3	255.1	0.0	0.0	0.0	0.0	0.0	0.0	232.9	244.2	5.6
10	600	8/16	26	LR	SNG-8	229.5	250.1	252.0	0.0	0.0	0.0	0.0	0.0	0.0	226.8	239.6	4.6

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 3022 (5) Sponsor Code 7928/84 Test No. 450008 Convoy 302

Inv.No. 2843 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RF	SNG-8	289.1	297.8	297.3	0.0	0.0	0.0	0.0	0.0	0.0	291.1	293.9	
2	800	7/25	26	LF	SNG-8	283.3	295.0	294.5	0.0	0.0	0.0	0.0	0.0	0.0	286.0	289.8	4.1
3	800	7/27	26	RF	SNG-8	277.6	289.5	289.5	0.0	0.0	0.0	0.0	0.0	0.0	282.5	284.8	5.0
4	800	7/31	26	LF	SNG-8	269.1	280.6	282.8	0.0	0.0	0.0	0.0	0.0	0.0	275.1	277.0	7.8
5	800	8/ 2	26	RF	SNG-8	261.3	274.3	276.0	0.0	0.0	0.0	0.0	0.0	0.0	269.0	270.2	6.8
6	800	8/ 5	26	LF	SNG-8	256.5	268.1	271.3	0.0	0.0	0.0	0.0	0.0	0.0	262.0	264.5	5.7
7	800	8/ 8	26	RF	SNG-8	252.6	264.1	265.5	0.0	0.0	0.0	0.0	0.0	0.0	258.3	260.4	4.1
8	800	8/10	26	LF	SNG-8	246.5	257.8	261.2	0.0	0.0	0.0	0.0	0.0	0.0	251.6	254.3	6.1
9	800	8/14	26	RF	SNG-8	240.5	253.5	256.5	0.0	0.0	0.0	0.0	0.0	0.0	248.0	248.9	5.4
10	800	8/16	26	LF	SNG-8	237.0	248.8	253.5	0.0	0.0	0.0	0.0	0.0	0.0	243.3	245.7	3.2

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 3025 (5) Sponsor Code 7928/84 Test No. 450008 Convoy 302

Inv.No. 3844 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	GSS	Avg	Loss
1	800	7/23	26	LF	SNG-8	296.0	302.5	302.1	0.0	0.0	0.0	0.0	0.0	0.0	296.0	299.2	
2	800	7/25	26	RF	SNG-8	286.1	297.8	298.1	0.0	0.0	0.0	0.0	0.0	0.0	290.8	293.3	5.9
3	800	7/27	26	LF	SNG-8	283.1	291.5	291.1	0.0	0.0	0.0	0.0	0.0	0.0	282.8	287.2	6.1
4	800	7/31	26	RF	SNG-5	274.5	282.3	284.1	0.0	0.0	0.0	0.0	0.0	0.0	275.5	279.1	8.1
5	800	8/ 2	26	LF	SNG-8	269.1	277.5	280.0	0.0	0.0	0.0	0.0	0.0	0.0	271.3	274.5	4.6
6	800	8/ 6	26	RF	SNG-8	261.1	272.0	273.8	0.0	0.0	0.0	0.0	0.0	0.0	263.5	267.6	6.9
7	800	8/ 8	26	LF	SNG-8	256.3	267.0	268.5	0.0	0.0	0.0	0.0	0.0	0.0	260.1	263.0	4.6
8	800	8/10	26	RF	SNG-8	250.5	261.6	263.6	0.0	0.0	0.0	0.0	0.0	0.0	254.0	257.5	5.5
9	800	8/14	26	LF	SNG-8	246.5	253.5	253.6	0.0	0.0	0.0	0.0	0.0	0.0	245.5	253.0	4.5
10	800	8/16	26	RF	SNG-8	239.0	252.0	255.5	0.0	0.0	0.0	0.0	0.0	0.0	244.5	247.8	5.2

Comments:
10 25 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

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   S U M M A R Y   O F   T R E A D W E A R   T E S T   R E S U L T S
                                                                    PAGE 1
SPONSOR - US/DOT NHTSA                                    Project  8-7928-  3
          REF NO. NRD-002           TEST 4S0009           Date      7/13/84
CONVOY 402      COURSE MONITORING TIRES (CMT) CMT     / XXXXX

Date:     7/23  7/25  7/27  7/31  8/ 2  8/ 6  8/ 8  8/10  8/14
Miles:     800  1600  2400  3200  4000  4800  5600  6400  7200
Tire     - - - - - - W E A R - - - - - - - - - - - - - - - - -
11111    306.6 305.7 305.5 305.9 306.1 306.3 306.0 306.1 306.1
                                                      Intercept a 305.99
                                                      Wear Rate b  0.00

22222    306.5 305.9 306.3 305.8 306.0 306.2 306.2 305.6 306.6
                                                      Intercept a 306.11
                                                      Wear Rate b  0.00

Average Intercept         306.055
Average Wear                0.005  Base Wear Rate 01.00  CSAF   1.000

              CANDIDATE GROUPS   CALCULATIONS AT   7200 MILES (INCL. BI)

                     Calc WR  Intcp.  b * CSAF      PM     p=PM/300 RATING
7928/91
                - 1   3.33    360.38    3.33       90404   301.3     300
                - 2   3.40    359.53    3.40       88309   294.4     290
                - 3   3.33    360.69    3.33       90497   301.7     300
                - 4   3.45    360.56    3.45       87339   291.1     290
7928/92
                - 1   4.62    340.10    4.62       60995   203.3     200
                - 2   4.56    339.86    4.56       61734   205.8     200
                - 3   4.10    340.07    4.10       68622   228.7     220
                - 4   4.14    339.02    4.14       67713   225.7     220
7928/93
                - 1   4.77    290.82    4.77       48771   162.6     160
                - 2   4.90    290.28    4.90       47388   158.0     150
                - 3   5.01    296.34    5.01       47574   158.6     150
                - 4   4.91    290.38    4.91       47313   157.7     150
7928/94
                - 1   7.34    296.66    7.34       32770   109.2     100
                - 2   7.50    298.23    7.50       32297   107.7     100
                - 3   7.68    297.12    7.68       31415   104.7     100
                - 4   7.43    300.41    7.43       32887   109.6     100


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                                          Richard N. Pierce, Manager
                                          Tire Evaluation/Research Section
                                          Southwest Research Institute
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S U M M A R Y O F T R E A D W E A R T E S T R E S U L T S

SPONSOR - US/DOT NHTSA Project 8-7928- 3
REF NO. NRD-002 TEST 450009 Date 7/13/84
CONVOY 402 COURSE MONITORING TIRES (CMT) CMT / XXXXX

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	8/16
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	8000
Tire	- - - - - - W E A R -									
11111	306.6	305.7	305.5	305.9	306.1	306.3	306.0	306.1	306.1	306.1
									Intercept a	306.00
									Wear Rate b	0.00
22222	306.5	305.8	306.3	305.8	306.0	306.2	306.2	305.6	306.6	306.0
									Intercept a	306.13
									Wear Rate b	0.01

Average Intercept 306.070
Average wear 0.010 Base Wear Rate 0.01 CSAF 1.000

CANDIDATE GROUPS CALCULATIONS AT 8000 MILES (INCL. BI)

		Calc WR	Intcp.	b * CSAF	PM	p=PM/300	RATING
7928/91							
	- 1	3.23	360.17	3.23	93113	310.4	310
	- 2	3.38	359.50	3.38	88818	296.1	290
	- 3	3.28	360.61	3.28	91840	306.1	300
	- 4	3.39	360.43	3.39	88832	296.1	290
7928/92							
	- 1	4.52	339.89	4.52	62280	207.6	200
	- 2	4.45	339.62	4.45	63187	210.6	210
	- 3	4.06	339.99	4.06	69270	230.9	230
	- 4	4.04	338.82	4.04	69320	231.1	230
7928/93							
	- 1	4.65	290.57	4.65	49955	166.5	160
	- 2	4.93	290.34	4.93	47116	157.1	150
	- 3	4.92	296.15	4.92	48391	161.3	160
	- 4	4.77	290.08	4.77	48616	162.1	160
7928/94							
	- 1	7.15	296.27	7.15	33565	111.9	110
	- 2	7.31	297.83	7.31	33061	110.2	110
	- 3	7.40	296.52	7.40	32492	108.3	100
	- 4	7.20	299.93	7.20	33846	112.8	110

Richard N. Pierce, Manager
Tire Evaluation/Research Section
Southwest Research Institute

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                SOUTHWEST RESEARCH INSTITUTE                   Page: MDF-2
                  San Antonio, Texas 78284
                                                        Project: 8-7928-  3
        M E A S U R E M E N T   D A T A   F I L E

Test 450009 Convoy 402   Candidate Group 402X   Ref.#NRD-002
                                                        7928/91

Date:     7/23  7/25  7/27  7/31  8/ 2  8/ 6  8/ 8  8/10  8/14
Miles:     800  1600  2400  3200  4000  4800  5600  6400  7200
TIRE      - - - - - - W E A R - - - - - - - - - - - - - - - -
3911     362.8 356.8 353.9 351.5 349.0 347.8 343.9 342.3 339.7
                                                      Intercept a 360.35
                                                      wear Rate b  3.33

3912     361.8 355.7 353.9 350.9 347.2 345.4 343.5 341.1 338.5
                                                      Intercept a 359.53
                                                      wear Rate b  3.40

3913     361.5 357.0 355.8 352.5 349.7 346.9 345.5 342.9 338.7
                                                      Intercept a 360.69
                                                      wear Rate b  3.33

3914     362.2 356.5 355.1 351.5 349.0 346.3 344.5 341.8 338.3
                                                      Intercept a 360.56
                                                      wear Rate b  3.45

Tire Size P195/75R14SL
Dimensions at 26  psi on 14 X 6   Rim.

                        Meas.
Tire          Date      After   Miles     OD     CSW     CR%   Hardness
3911        7/23/84     8I1       800   25.29   7.80   122.8      65
3911        8/14/84     07       7200    0.00   0.00     0.0      67

3912        7/23/84     8I1       800   25.30   7.80   123.6      65
3912        8/14/84     07       7200    0.00   0.00     0.0      67

3913        7/23/84     8I1       800   25.29   7.90   124.8      65
3913        8/14/84     07       7200    0.00   0.00     0.0      68

3914        7/23/84     8I1       800   25.29   7.80   126.5      66
3914        8/14/84     07       7200    0.00   0.00     0.0      68
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SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 4S0009 Convoy 402 Candidate Group 402M Ref.#NRD-002
7928/92

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
TIRE	- - - - - - - W E A R -									
3921	342.9	334.2	331.9	328.5	324.9	322.4	317.8	314.7	310.7	
										Intercept a 340.10
										Wear Rate b 4.62
3922	342.3	335.1	332.4	327.6	323.8	321.8	318.4	314.7	311.3	
										Intercept a 339.86
										Wear Rate b 4.56
3923	341.8	336.2	334.4	327.9	326.3	323.4	320.5	317.2	314.9	
										Intercept a 340.07
										Wear Rate b 4.10
3924	340.7	335.2	332.7	328.7	323.3	322.5	318.3	317.1	313.3	
										Intercept a 339.02
										Wear Rate b 4.14

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	CD	CSW	CR%	Hardness
3921	7/23/84	BI1	800	25.41	8.00	116.3	67
3921	8/14/84	07	7200	0.00	0.00	0.0	71
3922	7/23/84	BI1	800	25.42	8.00	118.5	66
3922	8/14/84	07	7200	0.00	0.00	0.0	70
3923	7/23/84	BI1	800	25.42	8.00	121.6	67
3923	8/14/84	07	7200	0.00	0.00	0.0	70
3924	7/23/84	BI1	800	25.42	8.00	121.6	67
3924	8/14/84	07	7200	0.00	0.00	0.0	71

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 450009 Convoy 402 Candidate Group 402G Ref.#NRD-002
7928/93

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
TIRE	- - - - - - w E A R - - - - - - - - - - - - - - - - - -									
3931	292.1	286.7	282.6	279.0	274.9	271.1	268.1	265.7	259.8	
										Intercept a 290.82
										Wear Rate b 4.77
3932	291.9	286.6	281.8	277.2	273.3	270.8	267.1	263.0	259.8	
										Intercept a 290.28
										Wear Rate b 4.90
3933	297.0	291.4	289.1	283.1	280.4	276.8	272.7	268.6	263.8	
										Intercept a 296.34
										Wear Rate b 5.01
3934	292.0	286.1	281.8	277.3	274.1	271.5	267.2	262.5	259.5	
										Intercept a 290.39
										Wear Rate b 4.91

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSw	CR%	Hardness
3931	7/23/84	BI1	800	25.27	7.80	161.8	68
3931	8/14/84	07	7200	0.00	0.00	0.0	71
3932	7/23/84	BI1	800	25.26	7.80	157.6	66
3932	8/14/84	07	7200	0.00	0.00	0.0	70
3933	7/23/84	BI1	800	25.26	7.80	163.2	67
3933	8/14/84	07	7200	0.00	0.00	0.0	70
3934	7/23/84	BI1	800	25.25	7.80	161.0	68
3934	8/14/84	07	7200	0.00	0.00	0.0	71

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Project: 8-7928- 3

M E A S U R E M E N T D A T A F I L E

Test 450009 Convoy 402 Candidate Group 4028 Ref.#NRD-002
7928/94

Date:	7/23	7/25	7/27	7/31	8/ 2	8/ 6	8/ 8	8/10	8/14	
Miles:	800	1600	2400	3200	4000	4800	5600	6400	7200	
TIRE	- - - - - -		W E A R	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	
3941	298.8	290.2	284.9	277.9	271.9	266.4	261.4	256.7	250.5	
										Intercept a 296.66
										Wear Rate b 7.34
3942	300.3	291.6	285.9	279.6	273.0	267.7	262.1	256.3	251.7	
										Intercept a 298.23
										Wear Rate b 7.50
3943	298.5	290.6	285.4	277.9	271.5	266.0	259.2	254.1	249.8	
										Intercept a 297.12
										Wear Rate b 7.63
3944	300.8	294.7	289.5	282.1	275.3	270.6	264.0	258.2	254.7	
										Intercept a 300.41
										Wear Rate b 7.43

Tire Size P195/75R14SL
Dimensions at 26 psi on 14 X 6 Rim.

Tire	Date	Meas. After	Miles	OD	CSW	CR%	Hardness
3941	7/23/84	BI1	800	25.31	7.80	148.2	69
3941	8/14/84	07	7200	0.00	0.00	0.0	74
3942	7/23/84	BI1	800	25.31	7.80	142.0	70
3942	8/14/84	07	7200	0.00	0.00	0.0	74
3943	7/23/84	BI1	800	25.31	7.80	147.0	68
3943	8/14/84	07	7200	0.00	0.00	0.0	73
3944	7/23/84	BI1	800	25.31	7.80	144.7	69
3944	8/14/84	07	7200	0.00	0.00	0.0	75

T R E A D L O S S S U M M A R Y

Group 402x (2) Sponsor Code 7928/91 Test No. 450009 Convoy 402

Inv.No. 3911 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	CSS	Avg	Loss
1	600	7/23	25	LR	SNG-8	376.0	347.5	348.0	0.0	0.0	0.0	0.0	0.0	0.0	377.6	362.8	
2	600	7/25	26	RR	SNG-8	372.3	342.3	340.6	0.0	0.0	0.0	0.0	0.0	0.0	371.8	356.8	6.0
3	600	7/27	26	LR	SNG-8	368.0	338.1	339.5	0.0	0.0	0.0	0.0	0.0	0.0	365.8	353.9	2.9
4	600	7/31	26	RR	SNG-8	367.5	336.5	336.5	0.0	0.0	0.0	0.0	0.0	0.0	365.3	351.5	2.4
5	800	8/ 2	25	LR	SNG-8	362.8	334.8	336.0	0.0	0.0	0.0	0.0	0.0	0.0	362.1	349.0	2.5
6	800	8/ 6	26	RR	SNG-8	362.0	333.3	333.6	0.0	0.0	0.0	0.0	0.0	0.0	362.3	347.8	1.2
7	800	8/ 8	26	LR	SNG-8	358.0	330.0	330.0	0.0	0.0	0.0	0.0	0.0	0.0	357.6	343.9	3.9
8	800	8/10	26	RR	SNG-8	354.8	328.6	329.5	0.0	0.0	0.0	0.0	0.0	0.0	356.3	342.3	1.6
9	800	8/14	26	LR	SNG-8	352.5	327.1	325.8	0.0	0.0	0.0	0.0	0.0	0.0	353.1	339.7	2.6
10	800	8/16	26	RR	SNG-8	351.0	324.0	324.8	0.0	0.0	0.0	0.0	0.0	0.0	351.8	337.9	1.8

Comments:

2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 402X (2) Sponsor Code 7928/91 Test No. 4S0009 Convoy 402

Inv.No. 3912 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RR	SNG-8	375.5	347.3	347.6	0.0	0.0	0.0	0.0	0.0	0.0	376.5	361.8	
2	800	7/25	25	LR	SNG-8	371.3	339.6	341.3	0.0	0.0	0.0	0.0	0.0	0.0	370.3	355.7	6.1
3	800	7/27	26	RR	SNG-8	367.3	339.0	339.6	0.0	0.0	0.0	0.0	0.0	0.0	369.6	353.9	1.8
4	800	7/31	26	LR	SNG-8	367.1	336.3	336.5	0.0	0.0	0.0	0.0	0.0	0.0	363.3	350.8	3.1
5	800	8/ 2	26	RR	SNG-8	361.0	332.6	333.3	0.0	0.0	0.0	0.0	0.0	0.0	361.6	347.2	3.6
6	800	8/ 6	26	LR	SNG-9	359.0	332.1	330.1	0.0	0.0	0.0	0.0	0.0	0.0	360.1	345.4	1.8
7	800	8/ 8	26	RR	SNG-8	357.6	330.1	328.3	0.0	0.0	0.0	0.0	0.0	0.0	357.6	343.5	1.9
8	800	8/10	26	LR	SNG-8	355.6	327.0	327.6	0.0	0.0	0.0	0.0	0.0	0.0	354.1	341.1	2.4
9	800	8/14	26	RR	SNG-9	351.1	324.9	325.3	0.0	0.0	0.0	0.0	0.0	0.0	352.5	338.5	2.6
10	800	8/16	26	LR	SNG-8	347.6	322.1	322.1	0.0	0.0	0.0	0.0	0.0	0.0	349.0	335.3	3.2

Comments:

2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 402X (2) Sponsor Code 7328/91 Test No. 450009 Convoy 402

Inv.No. 3913 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	GSS	Avg	Loss
1	600	7/23	25	RF	SNG-8	376.6	347.8	349.3	0.0	0.0	0.0	0.0	0.0	0.0	373.3	361.5	
2	800	7/25	26	LF	SNG-9	371.3	342.1	343.0	0.0	0.0	0.0	0.0	0.0	0.0	371.3	357.0	4.5
3	800	7/27	26	RF	SNG-8	367.5	342.3	342.8	0.0	0.0	0.0	0.0	0.0	0.0	370.5	355.8	1.2
4	800	7/31	26	LF	SNG-8	365.8	339.8	341.0	0.0	0.0	0.0	0.0	0.0	0.0	363.3	352.5	3.3
5	800	8/ 2	26	RF	SNG-8	362.3	337.0	337.3	0.0	0.0	0.0	0.0	0.0	0.0	362.0	349.7	2.8
6	800	8/ 6	26	LF	SNG-8	360.3	334.5	334.5	0.0	0.0	0.0	0.0	0.0	0.0	358.1	346.9	2.8
7	800	8/ 8	26	RF	SNG-8	357.6	334.6	334.1	0.0	0.0	0.0	0.0	0.0	0.0	355.1	345.5	1.4
8	800	8/10	26	LF	SNG-8	354.3	331.1	332.1	0.0	0.0	0.0	0.0	0.0	0.0	354.0	342.9	2.6
9	800	8/14	26	RF	SNG-8	352.1	325.1	327.6	0.0	0.0	0.0	0.0	0.0	0.0	349.6	338.7	4.2
10	800	8/16	26	LF	SNG-8	343.6	325.0	326.0	0.0	0.0	0.0	0.0	0.0	0.0	349.8	337.4	1.3

Comments:

2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 402X (2) Sponsor Code 7928/91 Test No. 450009 Convoy 402

Inv.No. 3914 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	26	LF	SNG-8	379.1	349.1	346.6	0.0	0.0	0.0	0.0	0.0	0.0	373.6	362.2	
2	800	7/25	26	RF	SNG-8	372.5	343.8	341.1	0.0	0.0	0.0	0.0	0.0	0.0	368.3	356.5	5.7
3	800	7/27	26	LF	SNG-8	371.5	342.1	343.3	0.0	0.0	0.0	0.0	0.0	0.0	363.3	355.1	1.4
4	800	7/31	26	RF	SNG-8	367.6	339.3	340.0	0.0	0.0	0.0	0.0	0.0	0.0	359.1	351.5	3.6
5	800	8/ 2	26	LF	SNG-8	365.5	336.5	336.1	0.0	0.0	0.0	0.0	0.0	0.0	357.8	349.0	2.5
6	800	8/ 6	26	RF	SNG-8	364.1	333.6	333.8	0.0	0.0	0.0	0.0	0.0	0.0	355.6	346.8	2.2
7	800	8/ 8	26	LF	SNG-8	360.6	332.0	333.5	0.0	0.0	0.0	0.0	0.0	0.0	352.0	344.5	2.3
8	800	8/10	26	RF	SNG-8	357.5	330.1	331.3	0.0	0.0	0.0	0.0	0.0	0.0	348.3	341.8	2.7
9	800	8/14	26	LF	SNG-8	354.5	325.5	328.5	0.0	0.0	0.0	0.0	0.0	0.0	344.5	338.3	3.5
10	800	8/16	26	RF	SNG-8	352.3	326.1	325.6	0.0	0.0	0.0	0.0	0.0	0.0	342.3	336.6	1.7

Comments:
2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 402M (3) Sponsor Code 7928/92 Test No. 4S0009 Convoy 402

Inv.No. 3921 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	343.3	344.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	341.3	342.9	
2	800	7/25	26	RR	SNG-8	332.5	337.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	333.0	334.2	8.7
3	800	7/27	26	LR	SNG-8	332.5	333.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	329.3	331.9	2.3
4	800	7/31	26	RR	SNG-8	327.6	331.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.1	328.5	3.4
5	800	8/ 2	26	LR	SNG-8	322.1	330.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.8	324.9	3.6
6	800	8/ 6	26	RR	SNG-8	319.5	326.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.8	322.4	2.5
7	800	8/ 8	26	LR	SNG-8	314.3	324.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.1	317.8	4.6
8	800	8/10	26	RR	SNG-8	311.5	319.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	312.6	314.7	3.1
9	800	8/14	26	LR	SNG-8	308.6	317.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	308.1	310.7	4.0
10	800	8/16	26	RR	SNG-8	306.1	313.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	305.0	308.3	2.4

Comments:
2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 402M (3) Sponsor Code 7928/92 Test No. 450009 Convoy 402

Inv.No. 3922 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	GSS	Avg	Loss
1	800	7/23	25	RR	SNG-8	341.6	346.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.1	342.3	
2	800	7/25	26	LR	SNG-9	334.6	337.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.8	335.1	7.2
3	800	7/27	26	RR	SNG-8	331.8	337.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328.3	332.4	2.7
4	800	7/31	26	LR	SNG-8	326.5	332.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.1	327.6	4.8
5	800	8/ 2	26	RR	SNG-9	321.5	329.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.0	323.9	3.8
6	800	8/ 6	26	LR	SNG-8	320.6	327.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.8	321.8	2.0
7	800	8/ 8	26	RR	SNG-9	316.9	322.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.0	318.4	3.4
8	800	8/10	26	LR	SNG-9	314.3	320.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	309.1	314.7	3.7
9	800	8/14	26	RR	SNG-8	309.0	317.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	307.1	311.3	3.4
10	800	8/16	26	LR	SNG-9	307.3	314.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	304.1	308.7	2.6

Comments:

2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 402M (3) Sponsor Code 7928/92 Test No. 4S0009 Convoy 402

Inv.No. 3923 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RF	SNG-8	342.6	344.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.6	341.8	
2	800	7/25	26	LF	SNG-8	336.6	339.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	333.0	336.2	5.6
3	800	7/27	26	RF	SNG-8	333.5	336.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.8	334.4	1.8
4	800	7/31	26	LF	SNG-8	326.6	332.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.0	327.9	6.5
5	800	8/ 2	26	RF	SNG-8	323.6	331.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.0	326.3	1.6
6	800	8/ 6	26	LF	SNG-8	321.3	328.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.0	323.4	2.9
7	800	8/ 8	26	RF	SNG-8	318.6	325.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	317.8	320.5	2.9
8	800	8/10	26	LF	SNG-8	314.1	323.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.1	317.2	3.3
9	800	8/14	26	RF	SNG-8	311.3	320.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	312.5	314.9	2.3
10	800	8/16	26	LF	SNG-8	307.5	317.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	308.5	311.2	3.7

Comments:

2 6 WET MILES
3 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 432M (3) Sponsor Code 7928/92 Test No. 450009 Convoy 402

Inv.No. 3924 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	7/23	25	LF	SNG-8	340.5	343.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.5	340.7	
2	800	7/25	26	RF	SNG-8	335.1	337.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.5	335.2	5.5
3	800	7/27	26	LF	SNG-8	331.3	336.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.0	332.7	2.5
4	800	7/31	26	LF	SNG-8	327.6	331.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327.0	328.7	4.0
5	800	8/ 2	26	LF	SNG-8	322.6	328.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	319.3	323.3	5.4
6	800	8/ 5	26	RF	SNG-8	320.3	327.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	321.0	322.8	0.5
7	800	8/ 8	26	LF	SNG-8	316.3	322.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	316.0	318.3	4.5
8	800	8/10	26	RF	SNG-8	314.1	321.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.6	317.1	1.2
9	800	8/14	26	LF	SNG-8	310.6	317.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	311.6	313.3	3.8
10	800	8/16	26	RF	SNG-8	308.8	316.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	307.1	310.7	2.6

Comments:

2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 4023 (4) Sponsor Code 7929/93 Test No. 450009 Convoy 402

Inv.No. 3931 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	26	LR	SNG-8	299.1	286.8	288.6	0.0	0.0	0.0	0.0	0.0	0.0	293.8	292.1	
2	800	7/25	26	RR	SNG-8	294.1	280.9	284.6	0.0	0.0	0.0	0.0	0.0	0.0	287.1	286.7	5.4
3	800	7/27	26	LR	SNG-8	290.5	277.9	278.1	0.0	0.0	0.0	0.0	0.0	0.0	284.0	282.6	4.1
4	800	7/31	26	RR	SNG-8	286.0	273.3	277.5	0.0	0.0	0.0	0.0	0.0	0.0	279.3	279.0	3.6
5	800	8/ 3	26	LR	SNG-8	291.6	269.6	273.3	0.0	0.0	0.0	0.0	0.0	0.0	274.8	274.9	4.1
6	800	8/ 5	26	RR	SNG-8	279.5	264.0	270.0	0.0	0.0	0.0	0.0	0.0	0.0	270.8	271.1	3.8
7	800	8/ 8	26	LR	SNG-8	277.0	262.0	266.8	0.0	0.0	0.0	0.0	0.0	0.0	266.5	269.1	3.0
8	800	8/10	26	RR	SNG-8	273.1	260.1	266.0	0.0	0.0	0.0	0.0	0.0	0.0	263.3	265.7	2.4
9	800	8/14	26	LR	SNG-8	268.0	256.1	259.1	0.0	0.0	0.0	0.0	0.0	0.0	256.0	259.8	5.9
10	800	8/16	26	RR	SNG-8	264.8	252.8	257.3	0.0	0.0	0.0	0.0	0.0	0.0	257.8	258.2	1.6

Comments:

2 6 WET MILES
4 TACH INOPERATIVE
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 4020 (4) Sponsor Code 7929/93 Test No. 450009 Convoy 402

Inv.No. 3932 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	DSS	Avg	Loss
1	800	7/23	25	RR	SNG-8	300.6	282.5	288.1	0.0	0.0	0.0	0.0	0.0	0.0	296.3	291.9	
2	800	7/25	26	LR	SNG-8	293.1	277.6	283.6	0.0	0.0	0.0	0.0	0.0	0.0	291.8	286.5	5.3
3	800	7/27	26	RR	SNG-8	289.8	271.5	278.3	0.0	0.0	0.0	0.0	0.0	0.0	287.6	281.6	4.8
4	800	7/31	26	LR	SNG-8	285.0	267.5	273.5	0.0	0.0	0.0	0.0	0.0	0.0	282.6	277.2	4.6
5	800	8/ 2	26	RR	SNG-8	280.6	263.0	269.3	0.0	0.0	0.0	0.0	0.0	0.0	280.1	273.3	3.9
6	800	8/ 6	26	LR	SNG-8	279.3	261.5	266.6	0.0	0.0	0.0	0.0	0.0	0.0	275.5	270.9	2.5
7	800	8/ 8	26	RR	SNG-8	275.3	260.5	262.6	0.0	0.0	0.0	0.0	0.0	0.0	269.8	267.1	3.7
8	800	8/10	26	LR	SNG-8	270.1	254.3	260.0	0.0	0.0	0.0	0.0	0.0	0.0	267.3	263.0	4.1
9	800	8/14	26	RR	SNG-8	268.5	251.1	254.1	0.0	0.0	0.0	0.0	0.0	0.0	265.1	259.8	3.2
10	800	8/15	26	LR	SNG-8	262.1	249.6	246.6	0.0	0.0	0.0	0.0	0.0	0.0	259.8	254.6	5.2

Comments:

2 6 WET MILES
4 TACH INOPERATIVE
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES

Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 402G (4) Sponsor Code 7928/93 Test No. 450009 Convoy 402

Inv.No. 3933 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	GSS	Avg	Loss
1	800	7/23	25	RF	SNG-8	303.5	285.5	289.3	0.0	0.0	0.0	0.0	0.0	0.0	304.6	297.0	
2	800	7/25	26	LF	SNG-8	301.6	282.8	282.1	0.0	0.0	0.0	0.0	0.0	0.0	298.3	291.4	5.6
3	800	7/27	26	RF	SNG-8	298.2	290.1	280.1	0.0	0.0	0.0	0.0	0.0	0.0	297.3	289.1	2.3
4	800	7/31	26	LF	SNG-8	292.1	271.1	278.3	0.0	0.0	0.0	0.0	0.0	0.0	290.6	283.1	6.0
5	800	8/ 2	26	RF	SNG-8	289.5	269.5	272.8	0.0	0.0	0.0	0.0	0.0	0.0	289.8	280.4	2.7
6	800	8/ 6	26	LF	SNG-8	285.1	267.6	269.1	0.0	0.0	0.0	0.0	0.0	0.0	285.1	276.8	3.6
7	800	8/ 8	26	RF	SNG-8	281.3	259.6	267.5	0.0	0.0	0.0	0.0	0.0	0.0	282.1	272.7	4.1
8	800	8/10	26	LF	SNG-8	275.8	261.1	261.0	0.0	0.0	0.0	0.0	0.0	0.0	276.5	268.6	4.1
9	800	8/14	26	RF	SNG-8	273.8	251.8	257.1	0.0	0.0	0.0	0.0	0.0	0.0	272.3	263.8	4.8
10	800	8/16	26	LF	SNG-8	266.0	253.3	255.3	0.0	0.0	0.0	0.0	0.0	0.0	265.6	261.6	2.2

Comments:

2 6 WET MILES
4 TACH INOPERATIVE
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 4023 (4) Sponsor Code 7928/93 Test No. 450009 Convoy 402

Inv.No. 3934 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LF	SNG-8	298.8	284.5	289.3	0.0	0.0	0.0	0.0	0.0	0.0	295.3	292.0	
2	800	7/25	26	RF	SNG-8	292.1	279.0	281.1	0.0	0.0	0.0	0.0	0.0	0.0	292.0	286.1	5.9
3	800	7/27	26	LF	SNG-8	288.3	273.5	278.3	0.0	0.0	0.0	0.0	0.0	0.0	287.0	281.8	4.3
4	800	7/31	26	RF	SNG-8	283.0	270.3	274.6	0.0	0.0	0.0	0.0	0.0	0.0	281.0	277.3	4.5
5	800	8/ 2	26	LF	SNG-8	280.6	265.5	271.0	0.0	0.0	0.0	0.0	0.0	0.0	279.1	274.1	3.2
6	800	8/ 6	26	RF	SNG-8	278.1	265.5	268.0	0.0	0.0	0.0	0.0	0.0	0.0	274.5	271.5	2.6
7	800	8/ 8	26	LF	SNG-8	273.3	260.0	264.1	0.0	0.0	0.0	0.0	0.0	0.0	271.1	267.2	4.3
8	800	8/10	26	RF	SNG-8	268.6	255.6	259.6	0.0	0.0	0.0	0.0	0.0	0.0	265.8	262.5	4.7
9	800	8/14	26	LF	SNG-8	266.1	254.0	256.1	0.0	0.0	0.0	0.0	0.0	0.0	261.8	259.5	3.0
10	800	8/16	26	RF	SNG-8	262.0	248.1	254.5	0.0	0.0	0.0	0.0	0.0	0.0	263.6	257.1	2.4

Comments:

2 6 WET MILES
4 TACH INOPERATIVE
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 4022 (5) Sponsor Code 7929/94 Test No. 450009 Convoy 402

Inv.No. 3941 Tire 1 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	LR	SNG-8	294.8	305.5	303.3	0.0	0.0	0.0	0.0	0.0	0.0	291.5	298.8	
2	800	7/25	26	RR	SNG-8	283.3	296.3	295.6	0.0	0.0	0.0	0.0	0.0	0.0	285.5	290.2	8.6
3	800	7/27	26	LR	SNG-8	277.3	290.6	291.5	0.0	0.0	0.0	0.0	0.0	0.0	280.0	284.9	5.3
4	800	7/31	26	RR	SNG-8	272.1	282.3	284.3	0.0	0.0	0.0	0.0	0.0	0.0	272.6	277.9	7.0
5	800	8/ 2	26	LR	SNG-8	265.3	278.5	278.3	0.0	0.0	0.0	0.0	0.0	0.0	265.3	271.9	6.0
6	800	8/ 6	26	RR	SNG-8	257.5	272.6	273.3	0.0	0.0	0.0	0.0	0.0	0.0	262.0	266.4	5.5
7	800	8/ 8	26	LR	SNG-8	252.5	268.3	268.3	0.0	0.0	0.0	0.0	0.0	0.0	256.5	261.4	5.0
8	800	8/10	26	RR	SNG-8	248.6	263.5	264.1	0.0	0.0	0.0	0.0	0.0	0.0	250.5	256.7	4.7
9	800	8/14	26	LR	SNG-8	240.6	258.8	259.3	0.0	0.0	0.0	0.0	0.0	0.0	243.1	250.5	6.2
10	800	8/16	26	RR	SNG-8	236.3	253.3	255.6	0.0	0.0	0.0	0.0	0.0	0.0	241.1	246.6	3.9

Comments:

2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 4025 (5) Sponsor Code 7928/94 Test No. 450009 Convoy 402

Inv.No. 3942 Tire 2 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RR	SNG-8	294.5	303.5	304.6	0.0	0.0	0.0	0.0	0.0	0.0	298.3	300.3	
2	800	7/25	26	LR	SNG-8	286.6	295.0	296.5	0.0	0.0	0.0	0.0	0.0	0.0	288.3	291.6	8.7
3	800	7/27	26	RR	SNG-8	278.0	290.1	292.5	0.0	0.0	0.0	0.0	0.0	0.0	283.0	285.9	5.7
4	800	7/31	26	LR	SNG-8	273.0	283.9	286.1	0.0	0.0	0.0	0.0	0.0	0.0	275.5	279.6	6.3
5	800	8/ 2	26	RR	SNG-8	265.3	277.0	279.6	0.0	0.0	0.0	0.0	0.0	0.0	270.1	273.0	6.6
6	800	8/ 6	26	LR	SNG-8	260.5	272.3	274.1	0.0	0.0	0.0	0.0	0.0	0.0	263.6	267.7	5.3
7	800	8/ 8	26	RR	SNG-8	252.0	268.3	268.8	0.0	0.0	0.0	0.0	0.0	0.0	259.3	262.1	5.6
8	800	8/10	26	LR	SNG-8	248.5	261.1	265.0	0.0	0.0	0.0	0.0	0.0	0.0	250.3	256.3	5.8
9	800	8/14	26	RR	SNG-8	243.5	256.5	259.3	0.0	0.0	0.0	0.0	0.0	0.0	247.3	251.7	4.6
10	800	8/16	26	LR	SNG-8	238.5	252.0	254.8	0.0	0.0	0.0	0.0	0.0	0.0	242.6	247.0	4.7

Comments:

2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 4025 (5) Sponsor Code 7928/94 Test No. 450009 Convoy 402

Inv.No. 3943 Tire 3 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	25	RF	SNG-8	293.1	303.6	303.0	0.0	0.0	0.0	0.0	0.0	0.0	294.1	298.5	
2	800	7/25	26	LF	SNG-8	285.8	295.6	295.0	0.0	0.0	0.0	0.0	0.0	0.0	285.8	290.6	7.9
3	800	7/27	26	RF	SNG-8	281.1	292.8	289.6	0.0	0.0	0.0	0.0	0.0	0.0	278.0	285.4	5.2
4	800	7/31	26	LF	SNG-8	273.5	284.5	283.5	0.0	0.0	0.0	0.0	0.0	0.0	270.1	277.9	7.5
5	800	8/ 2	26	RF	SNG-8	266.1	277.8	276.5	0.0	0.0	0.0	0.0	0.0	0.0	263.3	271.5	6.4
6	800	8/ 6	26	LF	SNG-8	260.6	273.5	273.1	0.0	0.0	0.0	0.0	0.0	0.0	256.8	266.0	5.5
7	800	8/ 8	26	RF	SNG-8	255.5	267.3	266.8	0.0	0.0	0.0	0.0	0.0	0.0	247.1	259.2	6.8
8	800	8/10	26	LF	SNG-8	249.3	262.9	262.0	0.0	0.0	0.0	0.0	0.0	0.0	242.3	254.1	5.1
9	800	8/14	26	RF	SNG-8	243.8	256.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	239.3	249.8	4.3
10	800	8/16	26	LF	SNG-8	242.3	254.0	253.5	0.0	0.0	0.0	0.0	0.0	0.0	234.0	246.0	3.8

Comments:

2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

T R E A D L O S S S U M M A R Y

Group 402E (5) Sponsor Code 7928/94 Test No. 450009 Convoy 402

Inv.No. 3944 Tire 4 Run In Complete

Ins	Miles	Date	Psi	Pos	Gauge	SS	2	3	4	5	6	7	8	9	OSS	Avg	Loss
1	800	7/23	26	LF	SNG-8	295.5	304.5	305.8	0.0	0.0	0.0	0.0	0.0	0.0	297.5	300.8	
2	800	7/25	26	RF	SNG-8	289.1	298.6	300.8	0.0	0.0	0.0	0.0	0.0	0.0	290.1	294.7	6.1
3	800	7/27	26	LF	SNG-8	283.1	294.8	295.6	0.0	0.0	0.0	0.0	0.0	0.0	284.5	289.5	5.2
4	800	7/31	26	RF	SNG-8	274.5	287.3	288.8	0.0	0.0	0.0	0.0	0.0	0.0	277.8	282.1	7.4
5	800	8/ 2	26	LF	SNG-8	269.0	281.0	280.6	0.0	0.0	0.0	0.0	0.0	0.0	270.3	275.3	6.8
6	800	8/ 6	26	RF	SNG-8	263.3	277.0	277.8	0.0	0.0	0.0	0.0	0.0	0.0	264.1	270.6	4.7
7	800	8/ 8	26	LF	SNG-8	256.0	270.0	271.3	0.0	0.0	0.0	0.0	0.0	0.0	256.6	264.0	6.6
8	800	8/10	26	RF	SNG-8	251.5	266.5	264.3	0.0	0.0	0.0	0.0	0.0	0.0	250.3	258.2	5.8
9	800	8/14	26	LF	SNG-8	246.6	261.6	261.8	0.0	0.0	0.0	0.0	0.0	0.0	248.5	254.7	3.5
10	800	8/16	26	RF	SNG-8	244.0	256.8	257.5	0.0	0.0	0.0	0.0	0.0	0.0	242.6	250.3	4.4

Comments:

2 6 WET MILES
5 4 WET MILES
6 3 WET MILES
10 15 WET MILES
Psi: Post run inflation. Inspection Psi = 26 .

SOUTHWEST RESEARCH INSTITUTE

TIRE WEIGHT MEASUREMENTS

TIRE TREAD WEAR AS
DETERMINED BY WEIGHT LOSS (grams)

- Tire weights (grams) after each of ten 800 mile runs.

- Tread Loss Rates (grams/1000 miles)

Loss Rate	/	Intercept at 0 Miles

WR1 - Regression of 8 points after 800 mile break-in.

WR2 - Regression of 9 points after 800 mile break-in.

WR3 - Regression of 8 points after 1600 mile break-in.

PHASE I

DTNH-22-84-C-07106
Test Phase I

Project 08-7928
Phase I
Feb-Mar-1984

TREAD LOSS RATES BY WEIGHT

Tire#	WEAR RATE GRAMS/1000 MILES WR1	WR2	WR3	INTERCEPT GRAMS AT 0 MILES A 1	A 2	A 3
1111	-18.5	-18.4	-18.3	18023	18023	18022
1112	-18.2	-18	-18	18027	18026	18026
1113	-17.9	-17.7	-17.5	17924	17924	17923
1114	-18.3	-18.2	-18.1	17939	17938	17938
1121	-18.4	-18.4	-18.2	17828	17827	17826
1122	-19.7	-19.6	-19.3	17765	17764	17763
1123	-18.2	-18.1	-18.1	17738	17738	17737
1124	-20.2	-20.1	-19.9	17848	17847	17846
1131	-19.9	-19.8	-19.9	17891	17891	17892
1132	-19.6	-19.5	-19.6	17709	17709	17709
1133	-18.8	-18.8	-18.8	17736	17736	17736
1134	-18.9	-18.8	-18.7	17839	17838	17838
1141	-22.9	-23	-23	17708	17708	17708
1142	-21.8	-21.8	-21.7	17682	17682	17681
1143	-21.6	-21.6	-21.5	17953	17953	17953
1144	-22.0	-22.2	-22.1	17938	17939	17939
1211	-18.2	-18.1	-17.8	17962	17962	17960
1212	-17.8	-17.8	-17.8	18047	18047	18047
1213	-17.7	-17.7	-17.4	18048	18048	18047
1214	-18.0	-18.1	-18	17987	17987	17987
1221	-18.6	-18.4	-18.4	17660	17660	17660
1222	-18.6	-18.5	-18.4	17958	17958	17957
1223	-18.5	-18.2	-18	17569	17568	17567
1224	-19.6	-19.4	-19.2	17945	17944	17943
1231	-18.9	-18.8	-18.4	17801	17801	17799
1232	-18.1	-17.8	-17.3	17893	17893	17889
1233	-18.6	-18.3	-17.9	17837	17836	17834
1234	-19.1	-18.9	-18.4	17993	17992	17989
1241	-23.0	-22.7	-22.1	17809	17808	17805
1242	-23.5	-23	-22.6	17982	17981	17978
1243	-22.7	-22.4	-22.1	17932	17931	17929
1244	-23.5	-23.2	-22.8	17706	17705	17702
1311	-17.4	-17.3	-17.1	17986	17986	17985
1312	-17.4	-17.1	-16.9	17962	17961	17960
1313	-17.4	-17.4	-17.2	18006	18006	18005
1314	-17.7	-17.4	-17.1	17968	17967	17966
1321	-18.9	-18.8	-18.3	17706	17706	17703
1322	NA	NA	NA	NA	NA	NA (1)
1323	-18.9	-18.7	-18.4	17732	17732	17730
1324	-20.3	-20.1	-19.7	17780	17779	17777
1331	-20.0	-19.8	-19	17591	17591	17586
1332	-19.6	-19.2	-18.7	17795	17794	17791
1333	-18.5	-18.4	-17.8	18018	18018	18015
1334	-18.0	-17.8	-17.4	17736	17735	17733
1341	-21.1	-21	-20.8	17832	17832	17831
1342	-21.1	-20.9	-20.8	17674	17673	17673
1343	-20.8	-20.6	-20.3	17844	17844	17842
1344	-19.2	-19.2	-18.9	17738	17738	17736
1411	-17.8	-17.6	-16.6	18121	18120	18114
1412	-17.4	-17	-16.3	17789	17788	17784
1413	-16.8	-16.6	-16.3	17807	17806	17804
1414	-16.9	-16.7	-16.5	17721	17720	17719
1421	-20.1	-19.7	-19.1	17662	17660	17657
1422	-20.7	-20.3	-19.8	17754	17753	17750
1423	-19.1	-19	-18.7	17655	17654	17652
1424	-19.8	-19.6	-19.3	17869	17868	17866
1431	-19.1	-19	-18.4	17678	17677	17674
1432	-18.8	-18.5	-18.2	17624	17624	17622
1433	-18.6	-18.4	-18	17785	17785	17782
1434	-17.9	-17.8	-17.4	17969	17968	17966
1441	-21.6	-21.2	-20.9	18054	18052	18050
1442	-21.1	-20.8	-20.7	17971	17970	17969
1443	-19.4	-19.3	-19	17856	17856	17854
1444	-19.1	-19.2	-19	17898	17898	17897

WR1/A1
Inspections 1-9
WR2/A2
Inspections 1-10
WR3/A3
Inspections 2-10

(1)
1322 - Removed from test (cut & puncture) at 6925 test miles
Regressions and intercepts to inspection 8 - 6400 miles.
-21.4 -20.6 -20.1 17550 17748 17746

June 1 1984 8:58 AM

Tire Wear Data

Tire #	B-1	B-2	1	2	3	4	5	6	7	8
1111	18009	17994	17979	17961	17949	17934	17923	17901	17891	17877
1112	18012	18000	17981	17967	17952	17941	17926	17910	17895	17884
1113	17911	17897	17879	17866	17852	17837	17827	17807	17797	17784
1114	17924	17911	17893	17880	17866	17850	17840	17819	17808	17794
1121	17814	17799	17782	17767	17754	17737	17728	17706	17697	17681
1122	17751	17735	17715	17700	17685	17669	17657	17637	17625	17609
1123	17724	17711	17692	17678	17664	17651	17638	17621	17607	17593
1124	17834	17816	17798	17781	17765	17749	17738	17717	17704	17687
1131	17875	17862	17844	17826	17811	17795	17782	17764	17749	17733
1132	17693	17679	17661	17646	17629	17615	17602	17583	17567	17553
1133	17721	17707	17690	17676	17661	17645	17634	17615	17600	17586
1134	17824	17809	17793	17777	17762	17747	17735	17717	17703	17689
1141	17690	17672	17652	17634	17618	17597	17582	17560	17543	17524
1142	17665	17649	17627	17610	17595	17576	17563	17542	17524	17508
1143	17936	17920	17900	17884	17865	17849	17835	17813	17798	17781
1144	17921	17903	17886	17866	17850	17831	17820	17796	17779	17760
1211	17950	17932	17919	17901	17890	17872	17862	17844	17833	17818
1212	18033	18019	18003	17990	17977	17961	17948	17932	17919	17905
1213	18036	18018	18005	17991	17979	17962	17951	17933	17922	17907
1214	17974	17956	17944	17930	17916	17901	17888	17871	17857	17842
1221	17646	17631	17616	17599	17588	17570	17557	17540	17528	17514
1222	17944	17931	17912	17897	17883	17868	17855	17839	17825	17812
1223	17556	17541	17524	17508	17495	17480	17467	17450	17438	17426
1224	17931	17915	17898	17879	17865	17850	17837	17819	17806	17791
1231	17789	17772	17752	17738	17726	17708	17698	17679	17666	17652
1232	17884	17868	17845	17832	17818	17801	17795	17780	17766	17752
1233	17826	17808	17789	17776	17762	17747	17733	17719	17705	17692
1234	17982	17962	17944	17932	17913	17897	17889	17872	17857	17843
1241	17795	17772	17754	17731	17715	17696	17681	17663	17646	17630
1242	17967	17947	17927	17901	17883	17867	17853	17833	17816	17801
1243	17916	17898	17878	17853	17839	17821	17807	17786	17771	17755
1244	17690	17669	17651	17625	17609	17591	17576	17555	17539	17523
1311	17974	17960	17944	17927	17917	17901	17890	17875	17863	17848
1312	17949	17936	17917	17905	17891	17879	17864	17851	17837	17827
1313	17994	17979	17964	17949	17937	17921	17910	17895	17882	17868
1314	17956	17940	17926	17910	17897	17881	17869	17855	17843	17831
1321	17695	17679	17659	17641	17627	17613	17602	17587	17573	17557
1322	17735	17719	17696	17678	17663	17648	17633	17621		
1323	17720	17704	17686	17669	17653	17639	17627	17613	17599	17583
1324	17767	17749	17730	17711	17696	17679	17666	17649	17638	17620
1331	17582	17560	17541	17521	17509	17493	17480	17463	17452	17435
1332	17783	17765	17745	17729	17713	17699	17685	17671	17656	17643
1333	18008	17990	17972	17955	17940	17926	17917	17902	17887	17872
1334	17725	17708	17692	17674	17661	17647	17637	17621	17609	17594
1341	17817	17800	17781	17762	17748	17730	17715	17697	17682	17665
1342	17658	17643	17622	17604	17589	17572	17554	17540	17524	17508
1343	17830	17814	17793	17776	17757	17743	17729	17713	17697	17681
1344	17726	17707	17692	17674	17660	17644	17633	17616	17601	17584
1411	18116	18089	18077	18059	18047	18033	18021	18007	17998	17982
1412	17781	17762	17745	17731	17716	17706	17691	17679	17668	17656
1413	17796	17781	17766	17750	17738	17725	17713	17699	17689	17675

1414	17709	17695	17681	17664	17650	17638	17626	17614	17601	17588
1421	17650	17631	17613	17593	17580	17560	17548	17534	17522	17507
1422	17741	17723	17703	17685	17669	17653	17638	17623	17608	17595
1423	17642	17626	17608	17591	17576	17559	17549	17534	17519	17504
1424	17855	17840	17820	17802	17787	17771	17759	17743	17728	17714
1431	17668	17649	17629	17611	17598	17582	17574	17557	17542	17527
1432	17612	17599	17577	17560	17546	17532	17520	17506	17492	17478
1433	17774	17757	17739	17723	17708	17694	17683	17668	17653	17639
1434	17958	17941	17924	17908	17894	17880	17870	17854	17842	17827
1441	18039	18023	18005	17977	17961	17947	17932	17916	17904	17886
1442	17954	17941	17922	17898	17882	17869	17852	17836	17822	17806
1443	17843	17826	17808	17791	17777	17762	17748	17731	17719	17702
1444	17884	17868	17851	17835	17820	17806	17791	17774	17762	17744

PHASE II

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

8800

TIRE	WR1	WR2	WR3
1111	-12.5	-13.7	-15.0
1112	-10.0	-13.8	-17.5
1113	-10.0	-13.8	-17.5
1114	-10.0	-15.0	-20.0
1121	-10.0	-15.0	-20.0
1122	-12.5	-18.8	-25.0
1123	-17.5	-16.3	-15.0
1124	-17.5	-16.3	-15.0

TIRE	A 1	A 2	A 3
1111	17877	17877	17878
1112	17885	17886	17888
1113	17784	17785	17787
1114	17798	17799	17802
1121	17683	17684	17687
1122	17613	17614	17618
1123	17594	17594	17593
1124	17690	17690	17689

9200

TIRE	WR1	WR2	WR3
1111	-13.7	-13.5	-13.8
1112	-13.8	-13.8	-15.0
1113	-13.8	-13.8	-15.0
1114	-15.0	-15.5	-17.5
1121	-15.0	-17.0	-20.0
1122	-18.8	-18.3	-20.0
1123	-16.3	-16.5	-16.2
1124	-16.3	-17.3	-17.5

TIRE	A 1	A 2	A 3
1111	17877	17877	17877
1112	17886	17886	17887
1113	17785	17785	17786
1114	17799	17799	17801
1121	17684	17684	17687
1122	17614	17614	17615
1123	17594	17594	17594
1124	17690	17690	17690

9600

TIRE	WR1	WR2	WR3
1111	-13.5	-16.2	-17.8
1112	-13.8	-14.0	-14.8
1113	-13.8	-14.5	-15.5
1114	-15.5	-15.5	-16.5
1121	-17.0	-17.5	-19.3
1122	-18.3	-19.5	-21.0
1123	-16.5	-15.8	-15.3
1124	-17.3	-18.0	-18.5

TIRE	A 1	A 2	A 3
1111	17877	17878	17880
1112	17886	17886	17887
1113	17785	17785	17786
1114	17799	17799	17800
1121	17684	17684	17687
1122	17614	17614	17616
1123	17594	17594	17593
1124	17690	17690	17691

10000

TIRE	WR1	WR2	WR3
1111	-16.2	-16.5	-17.5
1112	-14.0	-14.9	-15.8
1113	-14.5	-15.1	-16.0
1114	-15.5	-16.9	-18.0
1121	-17.5	-16.6	-17.2
1122	-19.5	-19.9	-21.0
1123	-15.8	-16.1	-16.0
1124	-18.0	-19.2	-20.0

TIRE	A 1	A 2	A 3
1111	17878	17878	17880
1112	17886	17886	17887
1113	17785	17785	17786
1114	17799	17800	17801
1121	17684	17684	17685
1122	17614	17614	17616
1123	17594	17594	17594
1124	17690	17691	17692

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

10400

TIRE	WR1	WR2	WR3
1111	-16.5	-17.2	-18.1
1112	-14.9	-16.9	-18.1
1113	-15.1	-15.9	-16.7
1114	-16.9	-17.7	-18.7
1121	-16.6	-17.1	-17.8
1122	-19.9	-21.2	-22.3
1123	-16.1	-17.2	-17.5
1124	-19.2	-20.0	-20.8

TIRE	A 1	A 2	A 3
1111	17878	17879	17880
1112	17886	17887	17889
1113	17785	17786	17787
1114	17800	17800	17802
1121	17684	17684	17685
1122	17614	17615	17617
1123	17594	17595	17595
1124	17691	17692	17693

10800

TIRE	WR1	WR2	WR3
1111	-17.2	-17.8	-18.6
1112	-16.9	-17.7	-18.8
1113	-15.9	-17.2	-18.1
1114	-17.7	-18.2	-19.1
1121	-17.1	-18.2	-19.0
1122	-21.2	-21.6	-22.5
1123	-17.2	-18.1	-18.6
1124	-20.0	-20.5	-21.3

TIRE	A 1	A 2	A 3
1111	17879	17879	17881
1112	17887	17888	17890
1113	17786	17787	17789
1114	17800	17801	17802
1121	17684	17685	17687
1122	17615	17616	17617
1123	17595	17595	17596
1124	17692	17692	17693

11200

TIRE	WR1	WR2	WR3
1111	-17.8	-18.2	-18.9
1112	-17.7	-18.0	-18.8
1113	-17.2	-17.8	-18.7
1114	-18.2	-18.3	-18.9
1121	-18.2	-18.2	-18.8
1122	-21.6	-21.2	-21.8
1123	-18.1	-18.5	-18.9
1124	-20.5	-20.4	-20.9

TIRE	A 1	A 2	A 3
1111	17879	17880	17881
1112	17888	17888	17890
1113	17787	17787	17789
1114	17801	17801	17802
1121	17685	17685	17686
1122	17616	17615	17617
1123	17595	17596	17597
1124	17692	17692	17693

11600

TIRE	WR1	WR2	WR3
1111	-18.2	-18.2	-18.8
1112	-18.0	-18.2	-18.9
1113	-17.8	-18.0	-18.7
1114	-18.3	-18.5	-19.1
1121	-18.2	-18.4	-18.9
1122	-21.2	-21.3	-21.8
1123	-18.5	-18.6	-19.0
1124	-20.4	-20.9	-21.4

TIRE	A 1	A 2	A 3
1111	17880	17880	17881
1112	17888	17889	17890
1113	17787	17787	17789
1114	17801	17801	17802
1121	17685	17685	17687
1122	17615	17615	17617
1123	17596	17596	17597
1124	17692	17692	17694

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

12000

TIRE	WR1	WR2	WR3
1111	-18.2	-18.3	-18.8
1112	-18.2	-18.4	-19.0
1113	-18.0	-17.9	-18.5
1114	-18.5	-18.6	-19.1
1121	-18.4	-18.6	-19.0
1122	-21.3	-21.4	-21.8
1123	-18.6	-18.9	-19.2
1124	-20.9	-21.0	-21.4

TIRE	A 1	A 2	A 3
1111	17880	17880	17881
1112	17889	17889	17891
1113	17787	17787	17789
1114	17801	17801	17802
1121	17685	17686	17687
1122	17615	17616	17617
1123	17596	17596	17597
1124	17692	17693	17694

12400

TIRE	WR1	WR2	WR3
1111	-18.3	-18.0	-18.4
1112	-18.4	-18.4	-18.9
1113	-17.9	-17.9	-18.3
1114	-18.6	-18.5	-18.9
1121	-18.6	-18.7	-19.0
1122	-21.4	-21.3	-21.6
1123	-18.9	-18.8	-19.0
1124	-21.0	-20.8	-21.1

TIRE	A 1	A 2	A 3
1111	17880	17879	17880
1112	17889	17889	17890
1113	17787	17787	17789
1114	17801	17801	17802
1121	17686	17686	17687
1122	17616	17615	17616
1123	17596	17596	17597
1124	17693	17692	17693

12800

TIRE	WR1	WR2	WR3
1111	-18.0	-18.2	-18.5
1112	-18.4	-18.5	-19.0
1113	-17.9	-18.0	-18.4
1114	-18.5	-18.5	-18.8
1121	-18.7	-18.8	-19.2
1122	-21.3	-21.2	-21.4
1123	-18.8	-18.8	-19.1
1124	-20.8	-20.9	-21.2

TIRE	A 1	A 2	A 3
1111	17879	17880	17881
1112	17889	17889	17890
1113	17787	17787	17789
1114	17801	17801	17802
1121	17686	17686	17687
1122	17615	17615	17616
1123	17596	17596	17597
1124	17692	17692	17693

13200

TIRE	WR1	WR2	WR3
1111	-18.2	-18.3	-18.5
1112	-18.5	-18.6	-18.9
1113	-18.0	-18.0	-18.3
1114	-18.5	-18.6	-18.9
1121	-18.8	-19.0	-19.3
1122	-21.2	-21.3	-21.6
1123	-18.8	-19.0	-19.2
1124	-20.9	-21.0	-21.3

TIRE	A 1	A 2	A 3
1111	17880	17880	17881
1112	17889	17889	17890
1113	17787	17787	17789
1114	17801	17801	17802
1121	17686	17686	17687
1122	17615	17615	17616
1123	17596	17596	17597
1124	17692	17693	17694

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

13600

TIRE	WR1	WR2	WR3
1111	-18.3	-18.2	-18.5
1112	-18.6	-18.6	-19.0
1113	-18.0	-18.0	-18.3
1114	-18.6	-18.6	-18.8
1121	-19.0	-19.2	-19.4
1122	-21.3	-21.5	-21.7
1123	-19.0	-19.2	-19.4
1124	-21.0	-21.1	-21.3

TIRE	A 1	A 2	A 3
1111	17880	17880	17881
1112	17889	17889	17890
1113	17787	17788	17789
1114	17801	17801	17802
1121	17686	17686	17688
1122	17615	17616	17616
1123	17596	17597	17597
1124	17693	17693	17694

14000

TIRE	WR1	WR2	WR3
1111	-18.2	-18.3	-18.5
1112	-18.6	-18.6	-18.9
1113	-18.0	-18.0	-18.3
1114	-18.6	-18.6	-18.8
1121	-19.2	-19.4	-19.6
1122	-21.5	-21.5	-21.7
1123	-19.2	-19.3	-19.5
1124	-21.1	-21.1	-21.3

TIRE	A 1	A 2	A 3
1111	17880	17880	17881
1112	17889	17889	17890
1113	17788	17788	17789
1114	17801	17801	17802
1121	17686	17687	17688
1122	17616	17616	17616
1123	17597	17597	17598
1124	17693	17693	17694

14400

TIRE	WR1	WR2	WR3
1111	-18.3	-18.2	-18.4
1112	-18.6	-18.5	-18.7
1113	-18.0	-17.9	-18.1
1114	-18.6	-18.4	-18.6
1121	-19.4	-19.4	-19.6
1122	-21.5	-21.4	-21.6
1123	-19.3	-19.2	-19.4
1124	-21.1	-21.1	-21.3

TIRE	A 1	A 2	A 3
1111	17880	17880	17880
1112	17889	17889	17890
1113	17788	17787	17788
1114	17801	17801	17801
1121	17687	17687	17688
1122	17616	17616	17616
1123	17597	17597	17597
1124	17693	17693	17693

14800

TIRE	WR1	WR2	WR3
1111	-18.2	-18.2	-18.4
1112	-18.5	-18.4	-18.6
1113	-17.9	-17.8	-18.0
1114	-18.4	-18.3	-18.5
1121	-19.4	-19.4	-19.6
1122	-21.4	-21.4	-21.6
1123	-19.2	-19.2	-19.4
1124	-21.1	-21.2	-21.3

TIRE	A 1	A 2	A 3
1111	17880	17880	17880
1112	17889	17889	17890
1113	17787	17787	17788
1114	17801	17800	17801
1121	17687	17687	17688
1122	17616	17616	17616
1123	17597	17597	17597
1124	17693	17693	17694

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

15200

TIRE	WR1	WR2	WR3
1111	-18.2	-18.2	-18.3
1112	-18.4	-18.5	-18.6
1113	-17.8	-17.7	-17.9
1114	-18.3	-18.4	-18.5
1121	-19.4	-19.4	-19.6
1122	-21.4	-21.5	-21.7
1123	-19.2	-19.3	-19.4
1124	-21.2	-21.3	-21.4

TIRE	A 1	A 2	A 3
1111	17880	17880	17880
1112	17889	17889	17890
1113	17787	17787	17788
1114	17800	17800	17801
1121	17687	17687	17688
1122	17616	17616	17616
1123	17597	17597	17598
1124	17693	17693	17694

15600

TIRE	WR1	WR2	WR3
1111	-18.2	-18.1	-18.2
1112	-18.5	-18.4	-18.6
1113	-17.7	-17.7	-17.9
1114	-18.4	-18.3	-18.4
1121	-19.4	-19.5	-19.7
1122	-21.5	-21.6	-21.7
1123	-19.3	-19.5	-19.6
1124	-21.3	-21.3	-21.5

TIRE	A 1	A 2	A 3
1111	17880	17879	17880
1112	17889	17889	17890
1113	17787	17787	17788
1114	17800	17800	17801
1121	17687	17687	17688
1122	17616	17616	17617
1123	17597	17597	17598
1124	17693	17693	17694

16000

TIRE	WR1	WR2	WR3
1111	-18.1	-18.1	-18.2
1112	-18.4	-18.4	-18.5
1113	-17.7	-17.7	-17.8
1114	-18.3	-18.3	-18.3
1121	-19.5	-19.6	-19.8
1122	-21.6	-21.6	-21.8
1123	-19.5	-19.5	-19.6
1124	-21.3	-21.4	-21.6

TIRE	A 1	A 2	A 3
1111	17879	17879	17880
1112	17889	17889	17889
1113	17787	17787	17788
1114	17800	17800	17801
1121	17687	17687	17688
1122	17616	17616	17617
1123	17597	17597	17598
1124	17693	17694	17694

16400

TIRE	WR1	WR2	WR3
1111	-18.1	-18.1	-18.2
1112	-18.4	-18.3	-18.5
1113	-17.7	-17.7	-17.8
1114	-18.3	-18.2	-18.3
1121	-19.6	-19.7	-19.8
1122	-21.6	-21.7	-21.8
1123	-19.5	-19.5	-19.6
1124	-21.4	-21.5	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17880
1112	17889	17888	17889
1113	17787	17787	17787
1114	17800	17800	17801
1121	17687	17688	17689
1122	17616	17616	17617
1123	17597	17597	17598
1124	17694	17694	17695

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

16800

TIRE	WR1	WR2	WR3
1111	-18.1	-18.1	-18.2
1112	-18.3	-18.3	-18.4
1113	-17.7	-17.7	-17.8
1114	-18.2	-18.2	-18.3
1121	-19.7	-19.6	-19.8
1122	-21.7	-21.7	-21.8
1123	-19.5	-19.6	-19.7
1124	-21.5	-21.5	-21.6

TIRE	A 1	A 2	A 3
1111	17879	17879	17880
1112	17888	17888	17889
1113	17787	17787	17787
1114	17800	17800	17800
1121	17688	17688	17688
1122	17616	17616	17617
1123	17597	17598	17598
1124	17694	17694	17694

17200

TIRE	WR1	WR2	WR3
1111	-18.1	-18.1	-18.1
1112	-18.3	-18.3	-18.4
1113	-17.7	-17.7	-17.8
1114	-18.2	-18.2	-18.2
1121	-19.6	-19.7	-19.8
1122	-21.7	-21.7	-21.8
1123	-19.6	-19.7	-19.8
1124	-21.5	-21.5	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17880
1112	17888	17888	17889
1113	17787	17787	17787
1114	17800	17800	17800
1121	17688	17688	17688
1122	17616	17616	17617
1123	17598	17598	17599
1124	17694	17694	17695

17600

TIRE	WR1	WR2	WR3
1111	-18.1	-18.1	-18.1
1112	-18.3	-18.2	-18.3
1113	-17.7	-17.8	-17.8
1114	-18.2	-18.2	-18.2
1121	-19.7	-19.7	-19.9
1122	-21.7	-21.7	-21.8
1123	-19.7	-19.8	-19.9
1124	-21.5	-21.6	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17880
1112	17888	17888	17889
1113	17787	17787	17788
1114	17800	17800	17800
1121	17688	17688	17689
1122	17616	17616	17617
1123	17598	17598	17599
1124	17694	17694	17695

18000

TIRE	WR1	WR2	WR3
1111	-18.1	-18.0	-18.1
1112	-18.2	-18.2	-18.3
1113	-17.8	-17.8	-17.8
1114	-18.2	-18.1	-18.2
1121	-19.7	-19.7	-19.9
1122	-21.7	-21.7	-21.8
1123	-19.8	-19.8	-19.9
1124	-21.6	-21.6	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17880
1112	17888	17888	17889
1113	17787	17787	17788
1114	17800	17800	17800
1121	17688	17688	17689
1122	17616	17616	17617
1123	17598	17598	17599
1124	17694	17694	17695

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

18400

TIRE	WR1	WR2	WR3
1111	-18.0	-18.0	-18.1
1112	-18.2	-18.2	-18.3
1113	-17.8	-17.8	-17.9
1114	-18.1	-18.2	-18.2
1121	-19.7	-19.7	-19.8
1122	-21.7	-21.7	-21.8
1123	-19.8	-19.8	-19.9
1124	-21.6	-21.6	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17880
1112	17888	17888	17889
1113	17787	17787	17788
1114	17800	17800	17800
1121	17688	17688	17689
1122	17616	17616	17617
1123	17598	17598	17599
1124	17694	17694	17695

18800

TIRE	WR1	WR2	WR3
1111	-18.0	-18.0	-18.0
1112	-18.2	-18.2	-18.3
1113	-17.8	-17.8	-17.9
1114	-18.2	-18.2	-18.2
1121	-19.7	-19.8	-19.9
1122	-21.7	-21.7	-21.8
1123	-19.8	-19.8	-19.9
1124	-21.6	-21.6	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17888	17888	17889
1113	17787	17787	17788
1114	17800	17800	17800
1121	17688	17688	17689
1122	17616	17616	17617
1123	17598	17598	17599
1124	17694	17694	17695

19200

TIRE	WR1	WR2	WR3
1111	-18.0	-18.0	-18.0
1112	-18.2	-18.2	-18.2
1113	-17.8	-17.8	-17.9
1114	-18.2	-18.1	-18.2
1121	-19.8	-19.8	-19.9
1122	-21.7	-21.7	-21.8
1123	-19.8	-19.9	-19.9
1124	-21.6	-21.6	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17888	17888	17888
1113	17787	17787	17788
1114	17800	17800	17800
1121	17688	17688	17689
1122	17616	17616	17617
1123	17598	17598	17599
1124	17694	17694	17695

19600

TIRE	WR1	WR2	WR3
1111	-18.0	-18.0	-18.0
1112	-18.2	-18.1	-18.2
1113	-17.8	-17.8	-17.9
1114	-18.1	-18.2	-18.2
1121	-19.8	-19.8	-19.9
1122	-21.7	-21.7	-21.7
1123	-19.9	-19.9	-20.0
1124	-21.6	-21.6	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17888	17888	17888
1113	17787	17787	17788
1114	17800	17800	17800
1121	17688	17688	17689
1122	17616	17616	17617
1123	17598	17599	17599
1124	17694	17694	17695

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

20000

TIRE	WR1	WR2	WR3
1111	-18.0	-18.0	-18.0
1112	-18.1	-18.1	-18.2
1113	-17.8	-17.9	-17.9
1114	-18.2	-18.2	-18.2
1121	-19.8	-19.9	-19.9
1122	-21.7	-21.7	-21.7
1123	-19.9	-19.9	-20.0
1124	-21.6	-21.7	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17888	17888	17888
1113	17787	17787	17788
1114	17800	17800	17800
1121	17688	17688	17689
1122	17616	17616	17617
1123	17599	17599	17599
1124	17694	17694	17695

20400

TIRE	WR1	WR2	WR3
1111	-18.0	-17.9	-18.0
1112	-18.1	-18.1	-18.2
1113	-17.9	-17.8	-17.9
1114	-18.2	-18.1	-18.1
1121	-19.9	-19.8	-19.9
1122	-21.7	-21.6	-21.7
1123	-19.9	-19.9	-20.0
1124	-21.7	-21.6	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17888	17888	17888
1113	17787	17787	17788
1114	17800	17800	17800
1121	17688	17688	17689
1122	17616	17616	17616
1123	17599	17599	17599
1124	17694	17694	17694

20800

TIRE	WR1	WR2	WR3
1111	-17.9	-17.9	-17.9
1112	-18.1	-18.1	-18.1
1113	-17.8	-17.8	-17.9
1114	-18.1	-18.0	-18.1
1121	-19.8	-19.8	-19.9
1122	-21.6	-21.6	-21.6
1123	-19.9	-19.9	-20.0
1124	-21.6	-21.5	-21.6

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17888	17888	17888
1113	17787	17787	17788
1114	17800	17799	17800
1121	17688	17688	17689
1122	17616	17616	17616
1123	17599	17598	17599
1124	17694	17694	17694

21200

TIRE	WR1	WR2	WR3
1111	-17.9	-17.9	-17.9
1112	-18.1	-18.0	-18.1
1113	-17.8	-17.8	-17.9
1114	-18.0	-18.0	-18.0
1121	-19.8	-19.8	-19.8
1122	-21.6	-21.5	-21.6
1123	-19.9	-19.9	-19.9
1124	-21.5	-21.5	-21.6

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17888	17887	17888
1113	17787	17787	17788
1114	17799	17799	17800
1121	17688	17688	17689
1122	17616	17616	17616
1123	17598	17598	17599
1124	17694	17694	17694

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

21600

TIRE	WR1	WR2	WR3
1111	-17.9	-17.9	-17.9
1112	-18.0	-18.0	-18.0
1113	-17.8	-17.8	-17.9
1114	-18.0	-18.0	-18.0
1121	-19.8	-19.8	-19.8
1122	-21.5	-21.5	-21.6
1123	-19.9	-19.9	-19.9
1124	-21.5	-21.5	-21.5

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17887	17887	17888
1113	17787	17787	17788
1114	17799	17799	17800
1121	17688	17688	17688
1122	17616	17615	17616
1123	17598	17598	17599
1124	17694	17693	17694

22000

TIRE	WR1	WR2	WR3
1111	-17.9	-17.9	-17.9
1112	-18.0	-18.0	-18.0
1113	-17.8	-17.8	-17.9
1114	-18.0	-18.0	-18.0
1121	-19.8	-19.8	-19.8
1122	-21.5	-21.5	-21.5
1123	-19.9	-19.9	-19.9
1124	-21.5	-21.5	-21.5

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17887	17887	17888
1113	17787	17787	17788
1114	17799	17799	17800
1121	17688	17688	17688
1122	17615	17615	17616
1123	17598	17598	17599
1124	17693	17693	17694

22400

TIRE	WR1	WR2	WR3
1111	-17.9	-17.9	-18.0
1112	-18.0	-18.0	-18.0
1113	-17.8	-17.9	-17.9
1114	-18.0	-18.0	-18.1
1121	-19.8	-19.8	-19.8
1122	-21.5	-21.5	-21.5
1123	-19.9	-19.9	-19.9
1124	-21.5	-21.5	-21.5

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17887	17887	17888
1113	17787	17788	17788
1114	17799	17799	17800
1121	17688	17688	17688
1122	17615	17615	17616
1123	17598	17598	17599
1124	17693	17693	17694

22800

TIRE	WR1	WR2	WR3
1111	-17.9	-18.0	-18.0
1112	-18.0	-18.0	-18.1
1113	-17.9	-17.9	-18.0
1114	-18.0	-18.1	-18.1
1121	-19.8	-19.8	-19.9
1122	-21.5	-21.5	-21.6
1123	-19.9	-19.9	-19.9
1124	-21.5	-21.5	-21.6

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17887	17887	17888
1113	17788	17788	17788
1114	17799	17800	17800
1121	17688	17688	17689
1122	17615	17616	17616
1123	17598	17599	17599
1124	17693	17694	17694

TIRE WEIGHT REGRESSIONS FOR 08-7928-002
GRAM LOSS / 1000 MILES AND 8000 - MILE INTERCEPTS

23200

TIRE	WR1	WR2	WR3
1111	-18.0	-18.0	-18.0
1112	-18.0	-18.1	-18.1
1113	-17.9	-18.0	-18.0
1114	-18.1	-18.1	-18.1
1121	-19.8	-19.8	-19.9
1122	-21.5	-21.6	-21.6
1123	-19.9	-19.9	-20.0
1124	-21.5	-21.6	-21.6

TIRE	A 1	A 2	A 3
1111	17879	17879	17879
1112	17887	17888	17888
1113	17788	17788	17788
1114	17800	17800	17800
1121	17688	17688	17689
1122	17616	17616	17616
1123	17599	17599	17599
1124	17694	17694	17694

23600

TIRE	WR1	WR2	WR3
1111	-18.0	-18.0	-18.0
1112	-18.1	-18.1	-18.1
1113	-18.0	-18.0	-18.1
1114	-18.1	-18.2	-18.2
1121	-19.8	-19.9	-20.0
1122	-21.6	-21.7	-21.7
1123	-19.9	-20.0	-20.0
1124	-21.6	-21.6	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17880
1112	17888	17888	17888
1113	17788	17788	17789
1114	17800	17800	17800
1121	17688	17689	17689
1122	17616	17616	17617
1123	17599	17599	17600
1124	17694	17694	17695

24000

TIRE	WR1	WR2	WR3
1111	-18.0	-18.1	-18.1
1112	-18.1	-18.1	-18.1
1113	-18.0	-18.1	-18.1
1114	-18.2	-18.2	-18.2
1121	-19.9	-20.0	-20.0
1122	-21.7	-21.7	-21.8
1123	-20.0	-20.0	-20.1
1124	-21.6	-21.7	-21.7

TIRE	A 1	A 2	A 3
1111	17879	17879	17880
1112	17888	17888	17888
1113	17788	17788	17789
1114	17800	17800	17800
1121	17689	17689	17689
1122	17616	17617	17617
1123	17599	17599	17600
1124	17694	17694	17695

TIRE WEIGHTS (GRAMS) FOR 08-7928-002

	GRP X				GRP M			
MILES	1111	1112	1113	1114	1121	1122	1123	1124
8000	17877	17885	17784	17798	17683	17613	17594	17690
8400	17872	17881	17780	17794	17679	17608	17587	17683
8800	17866	17874	17773	17786	17671	17598	17581	17677
9200	17861	17869	17768	17780	17663	17592	17574	17669
9600	17850	17863	17761	17774	17656	17582	17569	17661
10000	17845	17855	17754	17764	17652	17574	17561	17651
10400	17836	17843	17746	17756	17642	17562	17551	17642
10800	17828	17836	17735	17748	17631	17554	17542	17633
11200	17820	17830	17728	17742	17627	17549	17535	17627
11600	17814	17822	17722	17733	17618	17538	17528	17615
12000	17806	17814	17716	17726	17610	17529	17519	17608
12400	17802	17808	17709	17720	17603	17523	17514	17602
12800	17791	17799	17700	17712	17594	17514	17505	17591
13200	17784	17792	17694	17703	17586	17503	17496	17582
13600	17778	17784	17686	17697	17577	17494	17487	17574
14000	17769	17777	17680	17690	17568	17486	17479	17566
14400	17764	17773	17674	17685	17563	17480	17475	17558
14800	17756	17765	17668	17677	17555	17469	17466	17547
15200	17750	17755	17661	17668	17547	17459	17456	17538
15600	17743	17749	17652	17662	17535	17450	17446	17530
16000	17734	17743	17645	17656	17528	17442	17441	17519
16400	17727	17736	17639	17648	17521	17433	17432	17510
16800	17722	17728	17632	17640	17516	17425	17422	17505
17200	17714	17721	17623	17634	17505	17415	17413	17495
17600	17706	17715	17615	17626	17497	17408	17407	17486
18000	17699	17708	17609	17619	17490	17399	17400	17477
18400	17692	17698	17601	17610	17483	17390	17391	17469
18800	17687	17692	17594	17604	17472	17382	17382	17459
19200	17677	17686	17586	17598	17464	17375	17375	17452
19600	17670	17679	17580	17588	17457	17365	17366	17442
20000	17663	17670	17572	17582	17449	17356	17358	17434
20400	17660	17665	17567	17578	17446	17351	17353	17430
20800	17651	17660	17560	17573	17435	17343	17345	17422
21200	17643	17651	17553	17563	17428	17334	17337	17412
21600	17636	17644	17544	17554	17420	17324	17328	17404
22000	17628	17637	17536	17548	17412	17317	17321	17394
22400	17618	17628	17526	17538	17401	17305	17312	17383
22800	17610	17618	17519	17528	17392	17293	17302	17371
23200	17602	17609	17511	17520	17383	17281	17292	17362
23600	17596	17602	17502	17514	17373	17272	17282	17351
24000	17587	17596	17495	17509	17364	17263	17275	17342

PHASE III

RAW DATA, TIRE WEIGHTS (GRAMS), TEST 4S0006, PHASE III

6

0,17968,18000,17947,17976,17759,17904,17759,17347
18028,17550,17743,17940,17920,17892,17907,17864
400,17958,17990,17937,17965,17747,17891,17745,17334
18012,17529,17724,17920,17907,17875,17888,17848
800,17948,17976,17919,17953,17735,17878,17734,17326
17997,17514,17709,17907,17891,17858,17875,17836
1200,17941,17969,17909,17942,17723,17869,17723,17315
17984,17501,17695,17895,17879,17847,17862,17822
1600,17931,17959,17901,17933,17713,17857,17717,17307
17972,17492,17685,17881,17867,17833,17851,17809
2000,17921,17947,17890,17920,17705,17846,17704,17297
17963,17478,17673,17868,17853,17814,17837,17794
2400,17911,17934,17880,17911,17693,17833,17696,17289
17951,17466,17661,17861,17839,17797,17819,17779
2800,17902,17924,17869,17902,17686,17826,17683,17281
17938,17458,17650,17847,17826,17785,17807,17767
3200,17887,17914,17857,17890,17673,17811,17673,17270
17924,17444,17638,17834,17809,17770,17789,17748
3600,17877,17901,17848,17879,17663,17800,17661,17259
17915,17433,17631,17821,17797,17755,17775,17734
4000,17867,17890,17839,17871,17653,17790,17653,17253
17906,17423,17621,17813,17785,17743,17763,17722
4400,17858,17880,17826,17860,17642,17779,17640,17244
17897,17414,17609,17801,17771,17731,17749,17708
4800,17847,17871,17819,17851,17633,17769,17633,17235
17886,17405,17600,17793,17760,17719,17739,17695
5200,17837,17860,17809,17841,17625,17760,17623,17226
17875,17393,17587,17781,17748,17707,17728,17681
5600,17827,17849,17799,17831,17616,17748,17614,17219
17865,17382,17578,17772,17735,17693,17716,17670
6000,17820,17841,17787,17822,17609,17741,17605,17211
17856,17375,17568,17763,17727,17684,17706,17658
6400,17809,17832,17779,17813,17598,17730,17597,17204
17845,17363,17559,17754,17716,17672,17696,17648
6800,17803,17827,17774,17807,17594,17724,17589,17198
17840,17359,17553,17746,17708,17662,17687,17638
7200,17792,17814,17763,17796,17582,17711,17579,17190
17828,17347,17541,17736,17694,17647,17674,17625
7600,17784,17806,17753,17787,17570,17701,17566,17179
17819,17338,17531,17725,17680,17634,17660,17610
8000,17774,17796,17745,17777,17561,17691,17560,17171
17809,17329,17523,17716,17668,17623,17650,17596

Tire No. & Weight Correlation:

Miles	361x x= 1	2	3	Tire Number 4	362x x= 1	2	3	4
0,	17968,	18000,	17947,	17976	17759,	17904,	17759,	17347
	18028,	17550,	17743,	17940	17920,	17892,	17907,	17864
	x= 1	2	3	4	x= 1	2	3	4

Tire Code: 363x x x x Tire Number 364x

phase — test — group — tire number

Ex. 3614 = 17976 gm

WEIGHTS IN GRAMS FOR PHASE III TEST 6

WT36 T=00004 IS ON CR00019 USING 00012 BLKS R=0000

		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0001	800	17948	17976	17919	17953	17735	17878	17734	17326	17997	17514	17709	17907	17891	17858	17875	17836
0002	1200	17941	17969	17909	17942	17723	17869	17723	17315	17984	17501	17695	17895	17879	17847	17862	17822
0003	1600	17931	17959	17901	17933	17713	17857	17717	17307	17972	17492	17685	17881	17867	17833	17851	17809
0004	2000	17921	17947	17890	17920	17705	17846	17704	17297	17963	17478	17673	17868	17853	17814	17837	17794
0005	2400	17911	17934	17880	17911	17693	17833	17696	17289	17951	17466	17661	17861	17839	17797	17819	17779
0006	2800	17902	17924	17869	17902	17686	17826	17683	17281	17938	17458	17650	17847	17826	17785	17807	17767
0007	3200	17887	17914	17857	17890	17673	17811	17673	17270	17924	17444	17638	17834	17809	17770	17789	17748
0008	3600	17877	17901	17848	17879	17663	17800	17661	17259	17915	17433	17631	17821	17797	17755	17775	17734
0009	4000	17867	17890	17839	17871	17653	17790	17653	17253	17906	17423	17621	17813	17785	17743	17763	17722
0010	4400	17858	17880	17826	17860	17642	17779	17640	17244	17897	17414	17609	17801	17771	17731	17749	17708
0011	4800	17847	17871	17819	17851	17633	17769	17633	17235	17886	17405	17600	17793	17760	17719	17739	17695
0012	5200	17837	17860	17809	17841	17625	17760	17623	17226	17875	17393	17587	17781	17748	17707	17728	17681
0013	5600	17827	17849	17799	17831	17616	17748	17614	17219	17865	17382	17578	17772	17735	17693	17716	17670
0014	6000	17820	17841	17787	17822	17609	17741	17605	17211	17856	17375	17568	17763	17727	17684	17706	17658
0015	6400	17809	17832	17779	17813	17598	17730	17597	17204	17845	17363	17559	17754	17716	17672	17696	17648
0016	6800	17803	17827	17774	17807	17594	17724	17589	17198	17840	17359	17553	17746	17708	17662	17687	17638
0017	7200	17792	17814	17763	17796	17582	17711	17579	17190	17828	17347	17541	17736	17694	17647	17674	17625
0018	7600	17784	17806	17753	17787	17570	17701	17566	17179	17819	17338	17531	17725	17680	17634	17660	17610
0019	8000	17774	17796	17745	17777	17561	17691	17560	17171	17809	17329	17523	17716	17668	17623	17650	17596
		11	12	13	14	21	22	23	24	31	32	33	34	41	42	43	44

A C B

R_1 R_3 R_2

RAW DATA, TIRE WEIGHTS (GRAMS), TEST 4S0007, PHASE III

0,	18004,	18230,	17998,	17952,	17681,	17467,	17640,	17896
	17722,	17789,	17744,	17883,	17930,	17944,	17767,	17990
400,	17990,	18202,	17981,	17934,	17669,	17452,	17623,	17878
	17702,	17774,	17725,	17864,	17918,	17929,	17749,	17969
800,	17984,	18190,	17973,	17926,	17657,	17442,	17615,	17868
	17689,	17760,	17714,	17854,	17905,	17914,	17739,	17959
1200,	17971,	18179,	17959,	17914,	17647,	17433,	17602,	17854
	17677,	17748,	17699,	17839,	17892,	17899,	17722,	17943
1600,	17960,	18170,	17951,	17903,	17636,	17424,	17595,	17844
	17664,	17738,	17692,	17831,	17880,	17887,	17713,	17933
2000,	17950,	18160,	17941,	17892,	17627,	17416,	17583,	17827
	17655,	17727,	17679,	17819,	17869,	17873,	17699,	17920
2400,	17939,	18146,	17930,	17882,	17615,	17405,	17574,	17817
	17641,	17714,	17669,	17807,	17854,	17856,	17687,	17907
2800,	17929,	18137,	17918,	17870,	17605,	17397,	17562,	17806
	17631,	17706,	17656,	17796,	17842,	17844,	17671,	17894
3200,	17916,	18127,	17907,	17859,	17592,	17386,	17552,	17794
	17619,	17693,	17646,	17785,	17827,	17828,	17659,	17881
3600,	17908,	18118,	17898,	17849,	17584,	17378,	17541,	17781
	17610,	17685,	17634,	17772,	17816,	17815,	17644,	17867
4000,	17898,	18106,	17889,	17840,	17575,	17369,	17532,	17773
	17599,	17675,	17626,	17763,	17804,	17801,	17633,	17857
4400,	17888,	18098,	17879,	17831,	17563,	17360,	17523,	17761
	17589,	17666,	17615,	17752,	17790,	17787,	17617,	17844
4800,	17876,	18089,	17871,	17822,	17553,	17353,	17515,	17751
	17579,	17657,	17608,	17743,	17779,	17778,	17609,	17834
5200,	17868,	18078,	17861,	17811,	17545,	17345,	17505,	17739
	17571,	17647,	17597,	17732,	17769,	17766,	17597,	17822
5600,	17859,	18067,	17852,	17803,	17535,	17376,	17496,	17730
	17559,	17637,	17587,	17723,	17757,	17751,	17584,	17811
6000,	17851,	18060,	17842,	17794,	17527,	17330,	17487,	17721
	17552,	17630,	17577,	17713,	17748,	17742,	17574,	17800
6400,	17841,	18051,	17834,	17786,	17516,	17320,	17480,	17711
	17542,	17620,	17570,	17705,	17736,	17729,	17564,	17789
6800,	17837,	18047,	17829,	17779,	17511,	17316,	17474,	17702
	17537,	17616,	17564,	17699,	17729,	17721,	17556,	17781
7200,	17828,	18034,	17819,	17769,	17501,	17306,	17463,	17694
	17526,	17604,	17553,	17690,	17717,	17706,	17543,	17769
7600,	17820,	18027,	17810,	17761,	17492,	17299,	17454,	17684
	17517,	17597,	17543,	17680,	17705,	17696,	17531,	17758
8000,	17808,	18018,	17801,	17751,	17482,	17291,	17446,	17673
	17504,	17586,	17534,	17670,	17691,	17682,	17519,	17746

Tire No. & Weight Correlation:

Miles	371x x= 1	2	3	4	372x x= 1	2	3	4
1200,	17971,	18179,	17959,	17914,	17647,	17433,	17602,	17854
	17677,	17748,	17699,	17839,	17892,	17899,	17722,	17943
	x= 1	2	3	4	x= 1	2	3	4

Tire Number

Tire Code: 373x x x x 374x

phase — test — tire number — group

Ex. 3723 = 17602 gm

WEIGHTS IN GRAMS FOR PHASE III TEST 7

WT37 T=00004 IS ON CR00019 USING 00012 BLKS R=0000

		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0001	800	17984	18190	17973	17926	17657	17442	17615	17868	17689	17760	17714	17854	17905	17914	17739	17959
0002	1200	17971	18179	17959	17914	17647	17433	17602	17854	17677	17748	17699	17839	17892	17899	17722	17943
0003	1600	17960	18170	17951	17903	17636	17424	17595	17844	17664	17738	17692	17831	17880	17887	17713	17933
0004	2000	17950	18160	17941	17892	17627	17416	17583	17827	17655	17727	17679	17819	17869	17873	17699	17920
0005	2400	17939	18146	17930	17882	17615	17405	17574	17817	17641	17714	17669	17807	17854	17856	17687	17907
0006	2800	17929	18137	17918	17870	17605	17397	17562	17806	17631	17706	17656	17796	17842	17844	17671	17894
0007	3200	17916	18127	17907	17859	17592	17386	17552	17794	17619	17693	17646	17785	17827	17828	17659	17881
0008	3600	17908	18118	17898	17849	17584	17378	17541	17781	17610	17685	17634	17772	17816	17815	17644	17867
0009	4000	17898	18106	17889	17840	17575	17369	17532	17773	17599	17675	17626	17763	17804	17801	17633	17857
0010	4400	17888	18098	17879	17831	17563	17360	17523	17761	17589	17666	17615	17752	17790	17787	17617	17844
0011	4800	17876	18089	17871	17822	17553	17353	17515	17751	17579	17657	17608	17743	17779	17778	17609	17834
0012	5200	17868	18078	17861	17811	17545	17345	17505	17739	17571	17647	17597	17732	17769	17766	17597	17822
0013	5600	17859	18067	17852	17803	17535	17376	17496	17730	17559	17637	17587	17723	17757	17751	17584	17811
0014	6000	17851	18060	17842	17794	17527	17330	17487	17721	17552	17630	17577	17713	17748	17742	17574	17800
0015	6400	17841	18051	17834	17786	17516	17320	17480	17711	17542	17620	17570	17705	17736	17729	17564	17789
0016	6800	17837	18047	17829	17779	17511	17316	17474	17702	17537	17616	17564	17699	17729	17721	17556	17781
0017	7200	17828	18034	17819	17769	17501	17306	17463	17694	17526	17604	17553	17690	17717	17706	17543	17769
0018	7600	17820	18027	17810	17761	17492	17299	17454	17684	17517	17597	17543	17680	17705	17696	17531	17758
0019	8000	17808	18018	17801	17751	17482	17291	17446	17673	17504	17586	17534	17670	17691	17682	17519	17746
		11	12	13	14	21	22	23	24	31	32	33	34	41	42	43	44

A C B

R_1 R_2 R_3

RAW DATA, TIRE WEIGHTS (GRAMS), TEST 4S0008, PHASE III

8

0, 17935, 18143, 18056, 17910, 17890, 17281, 17876, 17815
17875, 17538, 17731, 17649, 17690, 17727, 17769, 17647
400, 17921, 18129, 18047, 17896, 17881, 17269, 17864, 17800
17859, 17521, 17715, 17629, 17676, 17712, 17751, 17628
800, 17914, 18119, 18038, 17886, 17868, 17260, 17853, 17790
17845, 17508, 17701, 17617, 17663, 17696, 17741, 17616
1200, 17903, 18112, 18029, 17880, 17861, 17255, 17845, 17780
17834, 17501, 17694, 17609, 17656, 17689, 17731, 17608
1600, 17892, 18100, 18020, 17868, 17848, 17244, 17837, 17769
17819, 17486, 17683, 17592, 17642, 17675, 17720, 17594
2000, 17883, 18088, 18010, 17856, 17838, 17235, 17824, 17757
17813, 17478, 17671, 17582, 17633, 17657, 17709, 17581
2400, 17873, 18077, 18000, 17848, 17824, 17224, 17814, 17749
17800, 17466, 17659, 17574, 17619, 17643, 17693, 17569
2800, 17863, 18069, 17988, 17838, 17815, 17218, 17804, 17737
17788, 17459, 17647, 17561, 17606, 17631, 17680, 17556
3200, 17852, 18058, 17978, 17827, 17803, 17208, 17795, 17728
17776, 17446, 17638, 17549, 17591, 17617, 17668, 17540
3600, 17845, 18050, 17970, 17818, 17795, 17200, 17783, 17717
17769, 17438, 17628, 17539, 17584, 17605, 17657, 17529
4000, 17834, 18038, 17960, 17809, 17782, 17190, 17773, 17707
17756, 17426, 17618, 17530, 17570, 17593, 17644, 17516
4400, 17827, 18031, 17950, 17801, 17774, 17184, 17763, 17698
17749, 17420, 17608, 17520, 17558, 17583, 17632, 17505
4800, 17815, 18021, 17942, 17791, 17763, 17176, 17755, 17689
17739, 17410, 17601, 17512, 17546, 17572, 17623, 17493
5200, 17808, 18015, 17935, 17782, 17756, 17168, 17746, 17679
17731, 17401, 17590, 17502, 17538, 17563, 17613, 17483
5600, 17799, 18003, 17925, 17774, 17746, 17160, 17738, 17670
17721, 17391, 17581, 17494, 17526, 17551, 17603, 17474
6000, 17789, 17997, 17913, 17766, 17738, 17154, 17729, 17662
17713, 17385, 17572, 17485, 17518, 17543, 17592, 17463
6400, 17779, 17987, 17907, 17755, 17725, 17144, 17719, 17652
17701, 17373, 17563, 17475, 17505, 17532, 17583, 17452
6800, 17774, 17981, 17900, 17748, 17719, 17137, 17711, 17645
17696, 17367, 17556, 17467, 17499, 17523, 17573, 17442
7200, 17765, 17972, 17891, 17740, 17705, 17128, 17701, 17637
17686, 17358, 17546, 17459, 17487, 17510, 17561, 17432
7600, 17758, 17963, 17882, 17732, 17698, 17123, 17692, 17628
17678, 17350, 17537, 17449, 17473, 17491, 17550, 17421
8000, 17746, 17952, 17873, 17722, 17686, 17113, 17684, 17616
17667, 17340, 17529, 17439, 17459, 17478, 17540, 17407

Tire No. & Weight Correlation:

Miles	381x x= 1	2	3	4	Tire Number 382x x= 1	2	3	4
2800,	17863,	18069,	17988,	17838	17815,	17218,	17804,	17737
	17788,	17459,	17647,	17561	17606,	17631,	17680,	17556
	x= 1	2	3	4	x= 1	2	3	4
	383x				Tire Number		384x	

Tire Code: x x x x

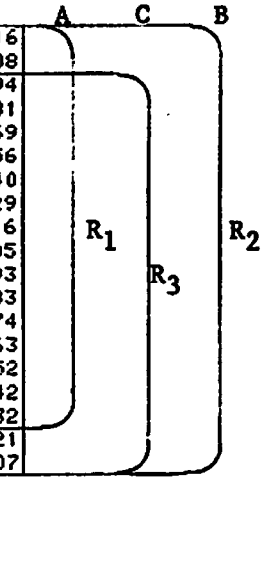
phase — test — tire number — group

Ex. 3832 = 17459 gm

WEIGHTS IN GRAMS FOR PHASE III TEST 8

WT38 T=00004 IS ON CR00019 USING 00012 BLKS R=0000

		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0001	800	17914	18119	18038	17886	17868	17260	17853	17790	17845	17508	17701	17617	17663	17696	17741	17616
0002	1200	17903	18112	18029	17880	17861	17255	17845	17780	17834	17501	17694	17609	17656	17689	17731	17608
0003	1600	17892	18100	18020	17868	17848	17244	17837	17769	17819	17486	17683	17592	17642	17675	17720	17594
0004	2000	17883	18088	18010	17856	17838	17235	17824	17757	17813	17478	17671	17582	17633	17657	17709	17581
0005	2400	17873	18077	18000	17848	17824	17224	17814	17749	17800	17466	17659	17574	17619	17643	17693	17569
0006	2800	17863	18069	17988	17838	17815	17218	17804	17737	17788	17459	17647	17561	17606	17631	17680	17556
0007	3200	17852	18058	17978	17827	17803	17208	17795	17728	17776	17446	17638	17549	17591	17617	17668	17540
0008	3600	17845	18050	17970	17818	17795	17200	17783	17717	17769	17438	17628	17539	17584	17605	17657	17529
0009	4000	17834	18038	17960	17809	17782	17190	17773	17707	17756	17426	17618	17530	17570	17593	17644	17516
0010	4400	17827	18031	17950	17801	17774	17184	17763	17698	17749	17420	17608	17520	17558	17583	17632	17505
0011	4800	17815	18021	17942	17791	17763	17176	17755	17689	17739	17410	17601	17512	17546	17572	17623	17493
0012	5200	17808	18015	17935	17782	17756	17168	17746	17679	17731	17401	17590	17502	17538	17563	17613	17483
0013	5600	17799	18003	17925	17774	17746	17160	17738	17670	17721	17391	17581	17494	17526	17551	17603	17474
0014	6000	17789	17997	17913	17766	17738	17154	17729	17662	17713	17385	17572	17485	17518	17543	17592	17463
0015	6400	17779	17987	17907	17755	17725	17144	17719	17652	17701	17373	17563	17475	17505	17532	17583	17452
0016	6800	17774	17981	17900	17748	17719	17137	17711	17645	17696	17367	17556	17467	17499	17523	17573	17442
0017	7200	17765	17972	17891	17740	17705	17128	17701	17637	17686	17358	17546	17459	17487	17510	17561	17432
0018	7600	17758	17963	17882	17732	17698	17123	17692	17628	17678	17350	17537	17449	17473	17491	17550	17421
0019	8000	17746	17952	17873	17722	17686	17113	17684	17616	17667	17340	17529	17439	17459	17478	17540	17407
		11	12	13	14	21	22	23	24	31	32	33	34	41	42	43	44



RAW DATA, TIRE WEIGHTS (GRAMS), TEST 4S0009, PHASE III

9
0, 18174, 17998, 17896, 17865, 17891, 17863, 17905, 17837
17899, 18012, 17955, 18018, 17935, 17998, 18035, 17991
400, 18162, 17987, 17884, 17851, 17880, 17852, 17890, 17821
17889, 17999, 17939, 18000, 17926, 17987, 18020, 17974
800, 18152, 17976, 17878, 17844, 17868, 17839, 17880, 17811
17876, 17986, 17929, 17991, 17914, 17974, 18010, 17963
1200, 18145, 17966, 17868, 17836, 17860, 17831, 17871, 17803
17868, 17980, 17920, 17981, 17905, 17966, 17999, 17954
1600, 18132, 17958, 17859, 17825, 17847, 17818, 17861, 17793
17856, 17968, 17913, 17971, 17892, 17954, 17989, 17942
2000, 18126, 17950, 17850, 17815, 17840, 17809, 17850, 17779
17850, 17959, 17902, 17959, 17884, 17944, 17976, 17928
2400, 18116, 17939, 17839, 17806, 17827, 17796, 17840, 17771
17837, 17946, 17891, 17949, 17871, 17930, 17965, 17919
2800, 18106, 17929, 17829, 17797, 17817, 17788, 17826, 17760
17828, 17939, 17880, 17939, 17861, 17921, 17952, 17906
3200, 18094, 17919, 17821, 17786, 17805, 17777, 17817, 17750
17815, 17928, 17871, 17928, 17847, 17909, 17942, 17896
3600, 18087, 17913, 17813, 17776, 17796, 17769, 17807, 17740
17807, 17920, 17861, 17917, 17839, 17900, 17933, 17883
4000, 18080, 17900, 17803, 17767, 17787, 17756, 17798, 17730
17796, 17908, 17852, 17907, 17825, 17887, 17921, 17871
4400, 18070, 17892, 17793, 17758, 17777, 17748, 17788, 17721
17787, 17901, 17841, 17897, 17816, 17877, 17909, 17861
4800, 18058, 17884, 17786, 17750, 17767, 17738, 17780, 17712
17778, 17892, 17835, 17889, 17804, 17867, 17900, 17850
5200, 18053, 17877, 17780, 17741, 17760, 17730, 17769, 17701
17773, 17886, 17826, 17880, 17796, 17857, 17889, 17839
5600, 18044, 17867, 17771, 17733, 17751, 17720, 17761, 17694
17763, 17877, 17817, 17872, 17785, 17846, 17881, 17829
6000, 18038, 17861, 17761, 17726, 17743, 17712, 17750, 17683
17755, 17870, 17808, 17864, 17777, 17837, 17870, 17819
6400, 18027, 17851, 17753, 17717, 17732, 17701, 17742, 17675
17744, 17859, 17799, 17852, 17764, 17827, 17860, 17808
6800, 18021, 17845, 17747, 17708, 17726, 17695, 17735, 17666
17739, 17853, 17791, 17843, 17759, 17820, 17853, 17798
7200, 18012, 17833, 17739, 17700, 17714, 17683, 17725, 17657
17728, 17841, 17781, 17834, 17746, 17806, 17841, 17787
7600, 18004, 17827, 17729, 17693, 17707, 17676, 17714, 17649
17720, 17835, 17772, 17826, 17737, 17799, 17830, 17777
8000, 17992, 17818, 17720, 17683, 17695, 17664, 17705, 17637
17708, 17823, 17763, 17814, 17724, 17785, 17818, 17763

Tire No. & Weight Correlation:

	391x			Tire Number	392x			
Miles	x= 1	2	3	4	x= 1	2	3	4
4000,	18080,	17900,	17803,	17767	17787,	17756,	17798,	17730
	17796,	17908,	17852,	17907	17825,	17887,	17921,	17871
	x= 1	2	3	4	x= 1	2	3	4

Tire Code: x x x x (393x) — Tire Number — (394x)

phase — test — group — tire number

Ex. 3941 = 17825gm

WEIGHTS IN GRAMS FOR PHASE III TEST 9

WT39 T=00004 IS ON CR00019 USING 00012 BLKS R=0000

		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0001	800	18152	17976	17878	17844	17868	17839	17880	17811	17876	17986	17929	17991	17914	17974	18010	17963
0002	1200	18145	17966	17868	17836	17860	17831	17871	17803	17868	17980	17920	17981	17905	17966	17999	17954
0003	1600	18132	17958	17859	17825	17847	17818	17861	17793	17856	17968	17913	17971	17892	17954	17989	17942
0004	2000	18126	17950	17850	17815	17840	17809	17850	17779	17850	17959	17902	17959	17884	17944	17976	17928
0005	2400	18116	17939	17839	17806	17827	17796	17840	17771	17837	17946	17891	17949	17871	17930	17965	17919
0006	2800	18106	17929	17829	17797	17817	17788	17826	17760	17828	17939	17880	17939	17861	17921	17952	17906
0007	3200	18094	17919	17821	17786	17805	17777	17817	17750	17815	17928	17871	17928	17847	17909	17942	17896
0008	3600	18087	17913	17813	17776	17796	17769	17807	17740	17807	17920	17861	17917	17839	17900	17933	17883
0009	4000	18080	17900	17803	17767	17787	17756	17798	17730	17796	17908	17852	17907	17825	17887	17921	17871
0010	4400	18070	17892	17793	17758	17777	17748	17788	17721	17787	17901	17841	17897	17816	17877	17909	17861
0011	4800	18058	17884	17786	17750	17767	17738	17780	17712	17778	17892	17835	17889	17804	17867	17900	17850
0012	5200	18053	17877	17780	17741	17760	17730	17769	17701	17773	17886	17826	17880	17796	17857	17889	17839
0013	5600	18044	17867	17771	17733	17751	17720	17761	17694	17763	17877	17817	17872	17785	17846	17881	17829
0014	6000	18038	17861	17761	17726	17743	17712	17750	17683	17755	17870	17808	17864	17777	17837	17870	17819
0015	6400	18027	17851	17753	17717	17732	17701	17742	17675	17744	17859	17799	17852	17764	17827	17860	17808
0016	6800	18021	17845	17747	17708	17726	17695	17735	17666	17739	17853	17791	17843	17759	17820	17853	17798
0017	7200	18012	17833	17739	17700	17714	17683	17725	17657	17728	17841	17781	17834	17746	17806	17841	17787
0018	7600	18004	17827	17729	17693	17707	17676	17714	17649	17720	17835	17772	17826	17737	17799	17830	17777
0019	8000	17992	17818	17720	17683	17695	17664	17705	17637	17708	17823	17763	17814	17724	17785	17818	17763
		11	12	13	14	21	22	23	24	31	32	33	34	41	42	43	44

A C B

R_1 R_3 R_2

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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Project: 08-7928-003

TREAD LOSS - MILS 4S0006 PHASE III

TIRE NR	MR1, 800-7200 mi			MR2 800-8000 mi			MR3 1600-8000 mi		
	Mils/1000M	intercept @ 0 mi	r^2	Mils/1000M	intercept @ 0 mi	r^2	Mils/1000M	intercept @ 0 mi	r^2
3611	3.83	363.6	.99026	3.75	363.4	.99129	3.74	363.4	.98805
2	3.88	363.2	.99464	3.83	363.1	.99556	3.84	363.1	.99396
3	3.66	362.5	.98349	3.61	362.2	.98708	3.60	362.3	.98229
4	3.87	363.3	.99491	3.83	363.2	.99593	3.72	362.5	.99740
$\bar{x}$	3.81	363.15		3.76	362.98		3.73	362.83	
C_v %	2.68	0.13		2.76	0.15		2.64	0.14	
3621	3.68	343.3	.99013	3.65	343.3	.99255	3.66	343.3	.99981
2	4.83	344.0	.99473	4.70	343.6	.99414	4.65	343.3	.99229
3	3.84	345.1	.98911	3.71	344.7	.98837	3.64	344.4	.98465
4	3.05	345.9	.96338	3.02	345.8	.97241	3.03	345.9	.96269
$\bar{x}$	3.85	344.58		3.77	344.35		3.75	344.23	
C_v %	19.14	0.33		18.41	0.33		17.90	0.36	
3631	5.71	305.4	.99487	5.57	305.0	.99451	5.44	304.2	.99433
2	5.55	300.3	.98394	5.35	299.7	.98381	5.06	298.0	.98636
3	5.74	303.3	.99143	5.55	302.7	.99009	5.39	301.8	.98868
4	5.54	294.0	.99165	5.31	293.3	.98834	5.13	292.3	.98728
$\bar{x}$	5.64	300.75		5.45	300.18		5.26	299.08	
C_v %	1.86	1.65		2.46	1.69		3.58	1.73	
3641	8.10	303.8	.96299	7.90	303.2	.96990	7.66	301.8	.95993
2	8.81	300.3	.98670	8.40	299.1	.98311	7.93	296.3	.98674
3	8.08	301.7	.99022	7.81	300.9	.98914	7.57	299.5	.98757
4	8.59	306.3	.99167	8.31	305.5	.99048	8.15	304.6	.98775
$\bar{x}$	8.40	303.03		8.11	302.18		7.83	300.55	
C_v %	4.33	0.86		3.62	0.92		3.37	1.17	

4S0006

E231

Date:

Signature:

(SwR 17) Rev 6/75

TREAD LOSS - MILS 450007 PHASE III

TIRE NO	MR1, 800-7200 mi			MR2 800-8000 mi			MR3 1600-8000 mi		
	Mils/1000M	intercept @0 mi	r^2	Mils/1000M	intercept @0 mi	r^2	Mils/1000M	intercept @0 mi	r^2
3711	3.66	363.8	.99027	3.57	363.6	.99074	3.58	363.6	.98743
2	3.88	363.5	.99155	3.74	363.1	.98998	3.72	363.0	.98623
3	3.59	363.7	.98996	3.49	363.4	.99021	3.50	363.4	.98667
4	3.80	363.9	.99129	3.66	363.5	.98947	3.65	363.5	.98553
$\bar{x}$	3.73	363.73		3.62	363.40		3.61	363.38	
Cv %	3.52	0.05		3.00	0.06		2.61	0.07	
3721	3.50	341.6	.97539	3.42	341.4	.97960	3.41	341.3	.97207
2	3.03	346.6	.98178	2.94	346.4	.98363	2.96	346.5	.97823
3	3.50	344.1	.98662	3.43	343.9	.98872	3.46	344.0	.98496
4	5.03	345.1	.98669	4.78	344.8	.98232	4.71	344.4	.97590
$\bar{x}$	3.77	344.35		3.64	344.13		3.64	344.05	
Cv %	23.16	0.61		21.74	0.61		20.66	0.62	
3731	4.95	292.5	.99223	4.82	292.2	.99225	4.73	291.6	.99034
2	5.32	291.5	.98644	5.07	290.8	.98288	4.85	289.5	.98162
3	5.19	296.8	.98729	5.12	296.6	.99001	5.08	296.3	.98638
4	5.07	293.5	.99787	4.98	293.2	.99746	4.99	293.3	.99656
$\bar{x}$	5.13	293.58		5.00	293.20		4.91	292.68	
Cv %	3.09	0.78		2.64	0.84		3.14	0.98	
3741	7.51	300.4	.99434	7.31	299.8	.99366	7.20	299.2	.99182
2	8.50	298.8	.98819	8.21	297.9	.98758	7.88	296.0	.98802
3	7.87	300.1	.98972	7.61	299.3	.98901	7.40	298.1	.98687
4	7.48	300.0	.98857	7.28	299.4	.98938	7.18	298.8	.98580
$\bar{x}$	7.84	299.83		7.60	299.1		7.42	298.03	
Cv %	6.05	0.23		5.68	0.28		4.39	0.48	

450007

SOUTHWEST RESEARCH INSTITUTE
San Antonio, Texas 78284

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TREAD LOSS, MILS 4S0008 PHASE III

Project: 08-7928-003

TIRE NR	MR1, 800-7200 mi			MR2 800-8000 mi			MR3 1600-8000 mi		
	mils/1000M	intercept @0 mi	r^2	mils/1000M	intercept @0 mi	r^2	mils/1000M	intercept @0 mi	r^2
3811	3.52	363.5	.98862	3.51	363.4	.99159	3.36	362.6	.99411
2	3.25	362.5	.98764	3.34	362.8	.98968	3.25	362.2	.98809
3	3.45	364.5	.99142	3.51	364.7	.99333	3.49	364.6	.99084
4	3.31	363.6	.99073	3.39	363.8	.99201	3.46	364.3	.99113
$\bar{x}$	3.38	363.5		3.44	363.7		3.39	363.4	
C_v %	3.67	0.23		2.51	0.22		3.20	0.33	
3821	4.58	341.5	.98905	4.59	341.6	.99203	4.48	340.9	.99093
2	3.00	347.5	.97683	3.01	347.5	.98308	3.13	348.2	.98414
3	3.99	343.5	.99418	4.07	343.8	.99522	4.22	344.6	.99464
4	4.27	338.9	.99155	4.21	338.7	.99313	4.25	338.9	.99114
$\bar{x}$	3.96	342.9		3.97	342.9		4.02	343.2	
C_v %	17.27	1.06		17.04	1.08		15.04	1.20	
3831	5.19	291.6	.99136	5.06	291.2	.99188	4.90	290.3	.99232
2	5.07	296.7	.99320	4.97	296.5	.99387	4.82	295.6	.99446
3	5.19	290.3	.98320	5.08	290.3	.98600	4.93	289.1	.98276
4	5.32	303.8	.98952	5.19	303.4	.99028	4.97	302.1	.99256
$\bar{x}$	5.19	295.6		5.08	295.4		4.91	294.3	
C_v %	1.97	2.07		1.78	2.04		1.29	2.02	
3841	7.31	299.9	.99454	7.22	299.6	.99551	7.15	299.2	.99414
2	7.98	300.0	.99160	7.74	299.3	.99106	7.48	297.7	.99134
3	7.25	300.5	.99595	7.03	299.9	.99440	7.07	300.1	.99250
4	7.34	304.3	.99559	7.18	303.8	.99549	7.07	303.2	.99458
$\bar{x}$	7.47	301.2		7.29	300.7		7.19	300.1	
C_v %	4.58	0.70		4.24	0.70		2.72	0.77	

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TREAD LOSS, MILS 450009 PHASE III

TIRE NR	MR1, 800-7200 mi			MR2 800-8000 mi			MR3 1600-8000 mi		
	MILS/1000M	intercept @0 mi	r^2	MILS/1000M	intercept @0 mi	r^2	MILS/1000M	intercept @0 mi	r^2
3911	3.32	363.0	.97509	3.23	362.8	.97822	2.95	361.1	.99498
2	3.40	362.3	.97772	3.38	362.2	.98347	3.14	360.8	.99456
3	3.33	363.4	.99046	3.28	363.2	.99237	3.19	362.7	.99199
4	3.45	363.3	.98734	3.39	363.1	.98962	3.21	362.1	.99596
$\bar{x}$	3.38	363.0		3.32	362.8		3.12	361.7	
C_v %	1.82	0.14		2.35	0.12		3.80	0.24	
3921	4.62	343.8	.98241	4.52	343.5	.98538	4.21	341.7	.99672
2	4.56	343.5	.98539	4.45	343.2	.98705	4.17	341.5	.99590
3	4.10	343.4	.98293	4.06	343.2	.98694	3.87	342.1	.98885
4	4.14	342.3	.98139	4.04	342.1	.98416	3.84	340.9	.98533
$\bar{x}$	4.36	343.3		4.27	343.0		4.02	341.6	
C_v %	6.27	0.19		5.93	0.18		4.83	0.15	
3931	4.77	294.6	.99334	4.65	294.3	.99320	4.50	293.4	.99451
2	4.90	294.2	.99197	4.92	294.3	.99412	4.76	293.3	.99560
3	5.10	300.3	.99572	4.92	300.1	.99591	4.83	299.6	.99539
4	4.91	294.3	.99309	4.77	293.9	.99233	4.57	292.7	.99544
$\bar{x}$	4.92	295.9		4.82	295.7		4.67	294.8	
C_v %	2.76	1.00		2.72	1.00		3.33	1.10	
3941	7.34	302.5	.99488	7.15	302.0	.99424	6.89	300.4	.99681
2	7.50	304.2	.99577	7.31	303.7	.99504	7.05	302.2	.99751
3	7.68	303.3	.99617	7.40	302.4	.99311	7.19	301.2	.99296
4	7.42	306.4	.99648	7.20	305.7	.99462	7.11	305.2	.99301
$\bar{x}$	7.49	304.1		7.27	303.5		7.06	302.3	
C_v %	1.94	0.55		1.54	0.55		1.80	0.69	

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