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FIRST TEST RESULTS FROM THE HONDA/UMTRI MTD

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16. Abstract Data gathered from the first series of tests to be conducted on the HONDA/UMTRI Motorcycle Tire Dynamometer are presented. Results from three tires are included. Data include transient and steady-state force and moment response of the tire to slip angle and camber angle under various conditions of inflation pressure, surface temperature, and velocity. Data reduction algorithms are described.			
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1. INTRODUCTION

This document is a report by The University of Michigan Transportation Research Institute (UMTRI) to the Honda Research and Development Company on the results of the first tire testing program using the HONDA/UMTRI Motorcycle Tire Dynamometer.

Tests were conducted on three individual tires. In this report, these tires are identified as T1, T2, and T3, and are identified in Table 1.1.

Table 1.1. Test Tires.

Tire ID	Tire
T1	Bridgestone Mag. Mopus - S702 3.60S19
T2	1st Bridgestone Mag. Mopus - L302 4.10S18
T3	2nd Bridgestone Mag. Mopus - L302 4.10S18

As originally planned, only two tires were to be sampled. However, during an early series of high-speed tests, the roadway support bearing of the MTS Flat Trak roadway failed causing the generation of excessive heat. Damage to the bearing, road belt and tire T2 resulted. On the advice of the Honda engineer observing the test, tire T2 was replaced with tire T3 in all subsequent tests.

Tests were conducted to examine both transient and steady-state tire properties. Transient and steady-state properties of tires T1 and T2 were examined in Test 1 - Relaxation Tests. All Relaxation Tests were conducted at low speed (on the order of 1 Km/hr). Each tire was subjected to one condition of load, inflation pressure, and temperature and 25 conditions of combined slip and camber angles. Further steady-state tests (Tests 2 and 3) were conducted on T3. These tests included various conditions of temperature, inflation pressure, and velocity, as well as five slip angle and five camber angle conditions. Further details of test procedures and conditions are given in Section 2.

Data resulting from these tests are presented in several forms. First, complete time histories of each run of Tests 2 and 3 can be found in the two enclosed volumes. (Time histories from Test 1 have previously been presented to Honda.) The larger volume contains graphical presentations of these time histories; the smaller volume contains time histories presented tabularly. These, and the Test 1 time histories, have also been reduced to more readily understandable numerics. The reduced data are presented graphically in Sections 3 and 4, along with explanations of the reduction method. Tabular results of the reduced data are presented in Appendices A, B, and C. (Note that time history data in the attached volumes appear in English units, while the reduced data in this document are in metric units.)

Test procedures and results will be discussed in the following sections of this report. Section 2 will consider test procedures and conditions for both relaxation and steady-state tests. In Section 3, the results of the relaxation test are presented in reduced form. Section 4 presents the reduced data derived from the steady-state tests. Sections 3 and 4 also include a discussion of the data reduction algorithms.

2. TEST PROCEDURES

2.1 Relaxation Test Procedure

The test conditions for Test 1 (Relaxation Tests) are described in Table 2.1. Inflation pressures were continuously controlled by an air regulator throughout the tests. Tire temperatures were uncontrolled, and since velocity was low, were assumed to be room temperature. Test velocities were approximately 1 Km, with an initial transient due to the fact that all tests begin at zero speed. The complete matrix of slip and camber angle conditions shown were run for each tire.

Table 2.1. Test Conditions for the Relaxation Tests.

Tire	Inflation Pressure kg/cm ² (psi)	Temperature °C	Velocity Km/hr	Vertical Load Kg (lb)
T1	1.75 (25)	Room Temp.	≈ 1	120 (265)
T2	2.25 (32)	Room Temp.	≈ 1	160 (353)

For both T1 and T2 the following slip angle/camber angle conditions were tested.

Camber Angle	Slip Angle				
	+1	0	-1	-3	-5
0	X	X	X	X	X
10	X	X	X	X	X
20	X	X	X	X	X
30	X	X	X	X	X
40	X	X	X	X	X

For each test run, with the road belt stationary, the tire was positioned to the proper slip and camber angle while still suspended above the roadway. The tire was then moved downward in the wheel plane until it contacted the road and obtained the specified vertical load. At this time, the roadway belt was accelerated to 1 km/hr.

Initial motion of the roadway was used to trigger the data-taking process. From this starting point, data samples were taken at a rate of 50 samples/sec/channel for a total period of 20 seconds. Typically, this resulted in gathering data over a travel distance of about 5 meters or 2-1/2 tire revolutions. One individual test run of this type was conducted for each slip and camber angle condition.

Results for this series of tests are presented in Section 3.

2.2 Steady-State Tests

The test conditions for the steady-state tests are presented in Table 2.2.

Table 2.2. Steady-State Test Conditions

Tire	Inflation Pressure Kg/cm ² (psi)	Temperature °C	Velocity Km/hr	Vertical Load Kg (lb)
T3	2.25 (32)	25 ± 5°	1,40,80,120	160 (353)
T3	2.41 (34.25)	25 ± 5°	1,40,80,120	160 (353)
T3	2.60 (37)	25 ± 5°	1,40,80,120	160 (353)
T3	2.41 (34.25)	50 ± 5°	1,40,80,120	160 (353)

For each of the above conditions, the following slip angle and camber angle conditions were tested:

Camber Angle	Slip Angle				
	+1	0	-1	-3	-5
0	X	X	X	X	X
10		X			
20		X			
30		X			
40		X			

The nominal inflation pressure for this tire was 2.25 Kg/cm² at room temperature (25°C). The elevated pressures of 2.41 and 2.60 Kg/cm²

were established experimentally. This experiment consisted of inflating the tire to 2.25 Kg/cm² at 25°C and then running the tire at high speed, high load, and in the presence of eight heat lamps (total 2800 KW) to produce elevated running temperatures. Periodically, the tire was stopped and surface temperature and inflation pressure were measured. In this way, a pressure/temperature relationship was established. The two elevated inflation pressures to be used were defined as those which occurred at 50 and 80°C.

It was found that, even with external heating from the lamps, the maximum attainable surface temperature was approximately 65°C. Accordingly, the pressure corresponding to 80°C was obtained by extrapolation.

In performing this experiment, surface temperatures were measured with a non-contacting optical pyrometer and with a contacting thermal-couple pyrometer. At zero velocity (and with heat lamps off), these measurements were found to agree within 1°C. In the first trial of this experiment, inflation pressure was measured with a common tire gauge. However, it was suspected that, due to the large number of measurements taken, a significant drop in inflation pressure occurred due to air loss. Accordingly, a second experiment in which pressure was measured with an electronic transducer permanently installed on the valve stem was conducted. The results of this experiment were used to establish the test inflation pressures.

Thereafter, during actual testing, inflation pressure was continually controlled by an air regulator to the specified test pressure. Tire surface temperature was established within the specified boundaries just prior (approximately 30 seconds) to each run, either by heating or cooling as required. Just after each run (again approximately 30 seconds), tire surface temperature was again measured. Both of these temperature measurements were made with the optical pyrometer with the tire at zero velocity and heat lamps off.

We note that Honda originally requested testing at 80°C and the associated pressure. However, establishing this high temperature level was found to be impossible without extraordinary effort beyond the budget capability of this project.

Tests were made at velocities of 1, 40, 80, and 120 Km/h. Tests at 160 Km/h were originally planned, but were abandoned for two reasons. First, the previously mentioned failure of the roadway support bearing occurred during the first attempt at the 160 Km/h condition. It was considered unreasonable to risk further damage to the roadway by persisting with these high-speed tests. Second, the D.C. drive servo system which controls belt speed malfunctioned several times as 160 Km/h was approached. Until this problem is diagnosed, it seems unreasonable to operate at this velocity.

Two variations of the test procedure were used, depending on test velocity. For tests conducted at 1 Km/h, a test duration on the order of 15 seconds is required to obtain two full tire rotations. In the "normal" dynamic mode, tests are currently limited to 5 seconds due to computer memory limits, but the specially prepared relaxation tests (always static) allow a 20-second test duration. Thus, for 1 Km/h tests, the procedure described for relaxation tests was used.

At higher velocities, tire rotational velocity is sufficiently high to allow testing in the normal test mode of the machine. In this mode, the test procedure is as follows:

- 1) The tire is initially placed on the roadway at a low level of vertical load, zero slip angle, a specified initial camber angle, and a roadway belt velocity of 5 Km/h.
- 2) Belt velocity is increased to the specified test condition.
- 3) On Command, vertical load is increased to the specified test condition.
- 4) On Command, a specified time history of slip angle and camber angle is executed and data is gathered. Data sampling occurs at 250 Hz for a maximum duration of 5 seconds.

With this procedure, more than one slip angle/camber angle can be tested in one run. In this program, the nine specified conditions of slip and camber were accomplished in four runs. The four types of test runs

used have been identified as ASTEP1, ASTEP2, GSTEP1, and GSTEP2. Table 2.3 describes the conditions covered in each of these test types.

Table 2.3. Slip and Camber Angle Conditions of the Four Test Types

<u>Test Name</u>	<u>Alpha</u>	<u>Gamma</u>
ASTEP1	1	0
	0	0
	-1	0
ASTEP2	-3	0
	-5	0
GSTEP1	0	10
	0	20
GSTEP2	0	30
	0	40

Table 2.4 indicates the chronological test sequence. The table also shows that one particular test, viz., ASTEP1 at 25°C, 2.25 Kg/cm², and 40 Km/h, was repeated periodically throughout the program. The purpose of including these runs was to attempt to track the influence of wear on the test tire properties, particularly since the test matrix was quite asymmetric in slip and camber angles.

Figure 2.1 shows the data derived from the repeat tests. It should be noted that the dynamometer was damaged during test 85 so that this data is somewhat suspect. Damage occurred in a manner which seriously degraded the measurement of the vertical position (rolling radius) of the tire. Since this measurement has a strong influence in the calculation of M_x , the results for M_x from test 85 were clearly in error and are, therefore, not included.

Table 2.4. Test Sequence

Temperature °C	Pressure Kg/cm ²	Velocity(s) Km/h	Number of Tests
25	2.25	40	1 (ASTEP1)
25	2.25	40-120	11*
25	2.41	40-120	12*
25	2.60	40-120	12*
25	2.25	40	1 (ASTEP1)
25	2.25	1	9
25	2.41	1	9
25	2.60	1	9
25	2.25	40	1 (ASTEP1)
50	2.41	40-120	12*
50	2.41	1	9
25	2.25	40	1 (ASTEP1)

*Includes ASTEP1, ASTEP2, GSTEP1, GSTEP2

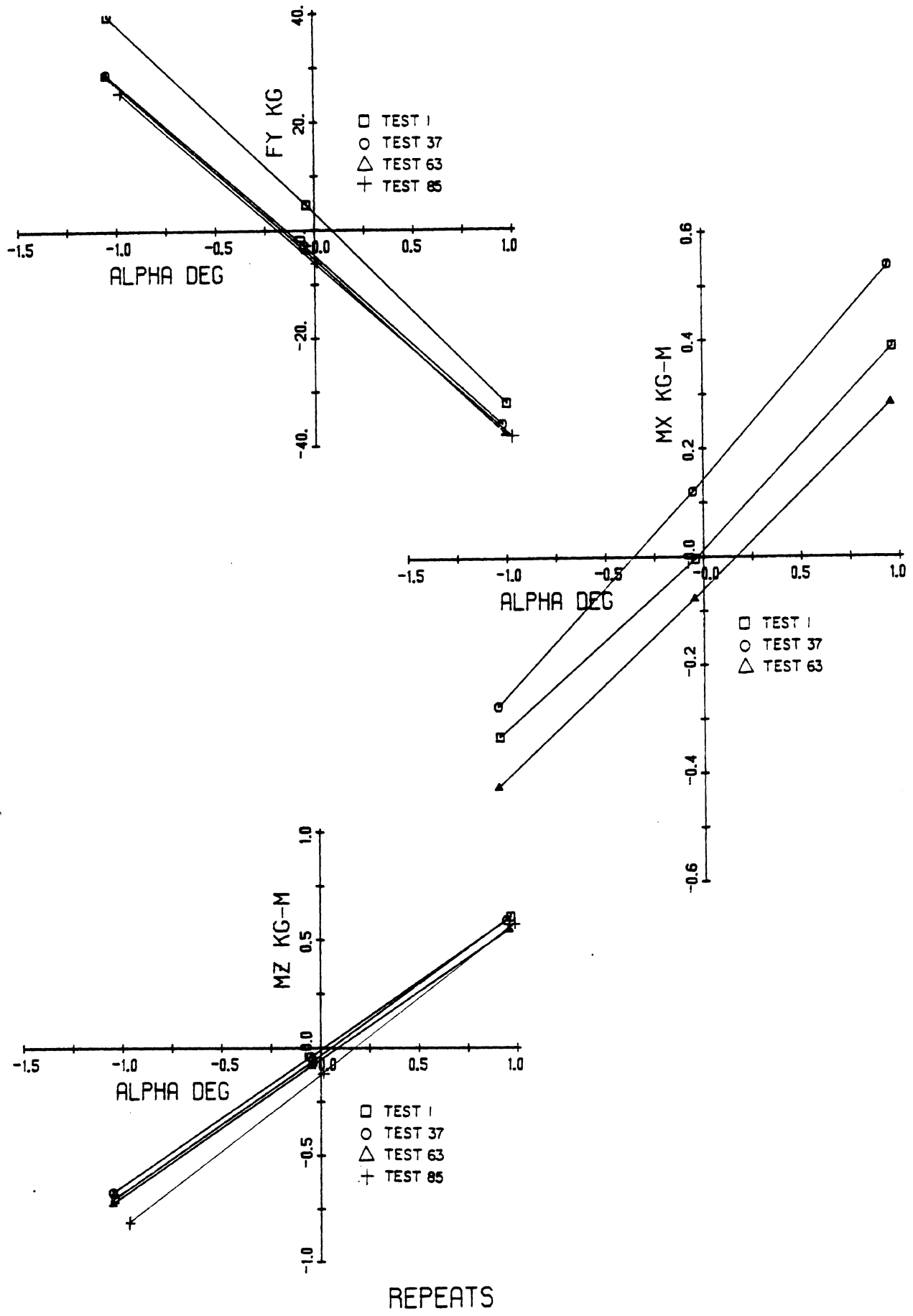


Figure 2.1. Repeat tests. $T=25^{\circ}\text{C}$, $P=2.25 \text{ Kg/cm}^2$, $V=40 \text{ Km/h}$.

3. TEST 1 RESULTS

Processing of the low-speed, relaxation tests ($V \approx 1$ Km/h) of tires T1 and T2 includes the calculation of the steady-state values and an estimation of the relaxation lengths. The following function was used to curve fit the data (FY, MX, and MZ).

$$F(X) = SS - X(1)e^{-X/L}$$

where

SS = steady-state value

X = distance

X(1) = first curve fit parameter = $SS - F(0)$ where
F(0) is the zero time data point

L = second curve fit parameter = relaxation length

The steady-state values were computed by averaging the data over the last revolution of the tire (each test is approximately 2.5 to 3 revolutions). These values were then used by the following algorithm to estimate the relaxation lengths.

1. Print all steady-state values
2. Estimate X(1) and L from the data
$$X(1) = SS - F(0)$$
$$L = X' \text{ where } F(X') = SS - X(1)e^{-1}$$
3. Print L and F(X') for each variable
4. Use the results of (2) as first guesses for the minimization iteration
5. Attempt to minimize the sum of the squares
$$\text{SUMSQ} = \sum (SS - X(1)e^{-X/L} - F(X))^2$$
 over fifteen equally spaced points of the first 1 to 1.5 feet of data

6. Print results - $X(1)$, L , $SUMSQ$, distance points (X), data points ($F(X)$), and calculated curve points $(SS - X(1)e^{-X/L})$

Appendix A contains the output of the above algorithm for tires T1 and T2. In a few cases, the data were either not close to being exponential or the noise due to tire nonuniformities eclipsed any exponential trend. This caused the program to terminate prematurely (i.e., no results were printed).

The steady-state values are summarized in Tables 3.1 and 3.2 and in Figures 3.1 and 3.2. The relaxation length estimates (missing values are set to zero) and a curve fit index ($SUMSQ/SS^2$) are listed in Table 3.3. The relaxation lengths with respect to F_y are reviewed in Figure 3.3. Clear trends with respect to slip and camber angles are apparent from the figure. Examination of the time histories reveals that the most erroneous data points of the figure result from the fact that the time histories involved are not truly of the assumed, exponential form. In general, the curve fit index data points in Appendix A and time history plots should be used to evaluate the quality of these estimates.

ALPHA	GAMMA	FY(Kg)	MX(Kg-m)	MZ (Kg-m)	Units
-----	-----	--	--	--	
.961	.011	-30.109	.303	.642	
-.043	.009	-.562	.067	-.012	
-1.050	.010	28.055	-.150	-.699	
-3.050	.011	72.815	-.655	-1.056	
-5.052	.007	101.232	-1.027	-.809	
.947	10.011	-5.139	-.876	1.046	
-.055	10.009	23.224	-1.054	.390	
-1.052	10.007	51.287	-1.278	-.312	
-3.050	10.008	92.442	-1.731	-.671	
-5.054	10.010	108.390	-1.982	-.330	
.930	20.004	17.663	-2.000	1.400	
-.078	20.000	44.447	-2.179	.719	
-1.057	20.008	70.125	-2.377	.089	
-3.078	20.012	104.253	-2.804	-.232	
-5.068	20.013	116.736	-2.982	-.041	
.908	30.002	38.972	-3.244	1.744	
-.092	30.003	64.106	-3.467	1.152	
-1.097	30.004	86.400	-3.641	.623	
-3.093	30.005	112.241	-4.019	.199	
-5.092	30.013	118.568	-4.119	.300	
-5.127	40.020	123.118	-5.271	.522	
-3.114	40.012	112.254	-5.167	.702	
-1.090	40.009	93.580	-5.050	1.250	
-.133	40.003	75.672	-4.899	1.756	
.859	39.995	56.440	-4.682	2.221	

Table 3.1. Test 1 Steady-State Values for Tire T1.

ALPHA	GAMMA	FY (Kg)	MX (Kg-m)	MZ (Kg-m)	Units
-----	-----	--	--	--	
.965	.011	-31.420	.493	.565	
-.045	.007	.812	.093	-.065	
-1.015	.010	31.729	-.185	-.676	
-3.031	.008	76.747	-.783	-1.052	
-5.027	.004	101.014	-1.140	-.740	
.960	10.013	-.835	-1.171	1.128	
-.039	10.012	31.180	-1.425	.455	
-1.039	10.010	61.058	-1.779	-.213	
-3.039	10.011	97.386	-2.226	-.418	
-5.038	10.012	114.840	-2.533	-.167	
.958	20.008	25.655	-2.751	1.696	
-.048	20.007	56.068	-3.036	.949	
-1.042	20.006	85.783	-3.276	.250	
-3.061	20.011	114.708	-3.628	.061	
-5.054	20.003	132.376	-3.908	.172	
.922	30.008	48.530	-4.441	2.265	
-.072	30.002	80.095	-4.723	1.574	
-1.080	30.010	103.468	-4.912	1.012	
-3.084	30.013	136.009	-5.291	.501	
-5.081	30.014	143.593	-5.396	.540	
-5.028	40.013	152.043	-7.557	.993	
-3.127	40.011	143.960	-7.499	1.332	
-1.103	40.006	124.216	-7.275	2.013	
-.115	40.008	98.914	-6.922	2.705	
.868	40.003	76.298	-6.726	3.245	

Table 3.2. Test 1 Steady-State Values for Tire T2.

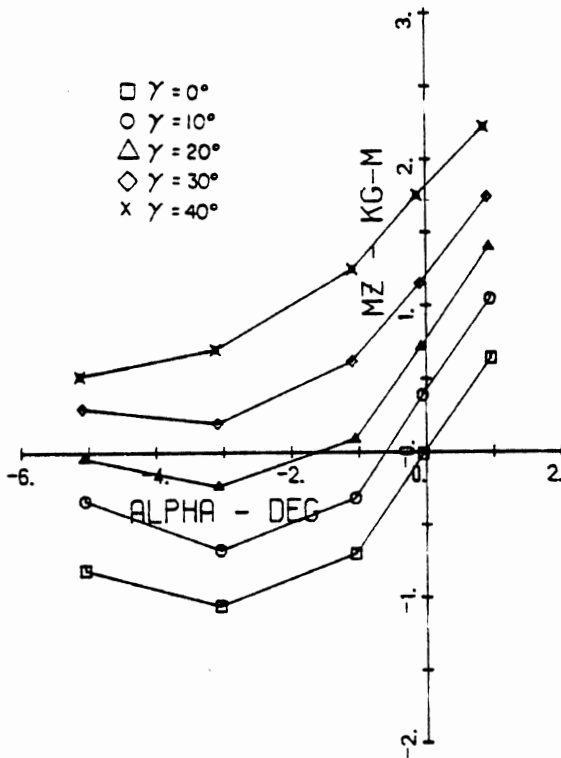
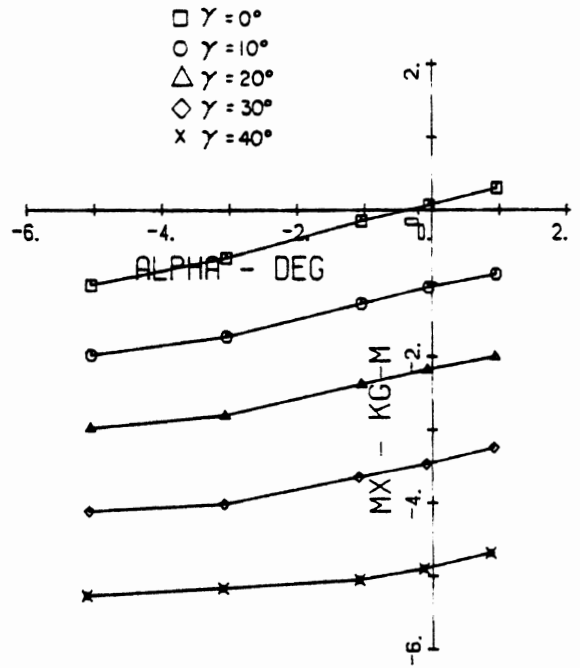
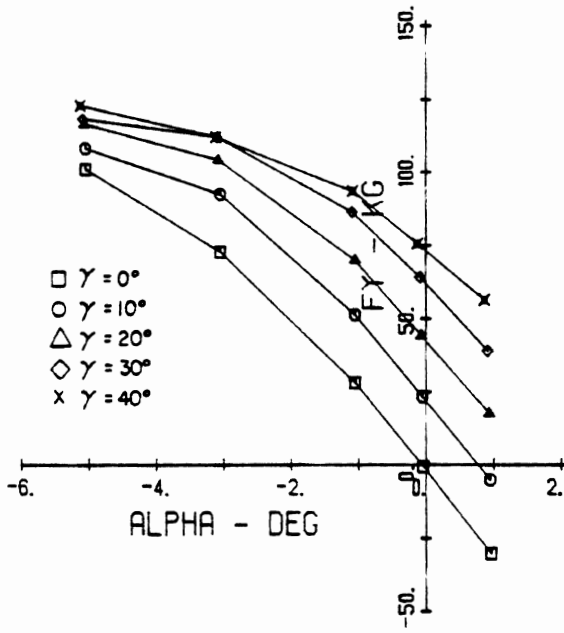


Figure 3.1. Test 1 summary plots for tire T1.

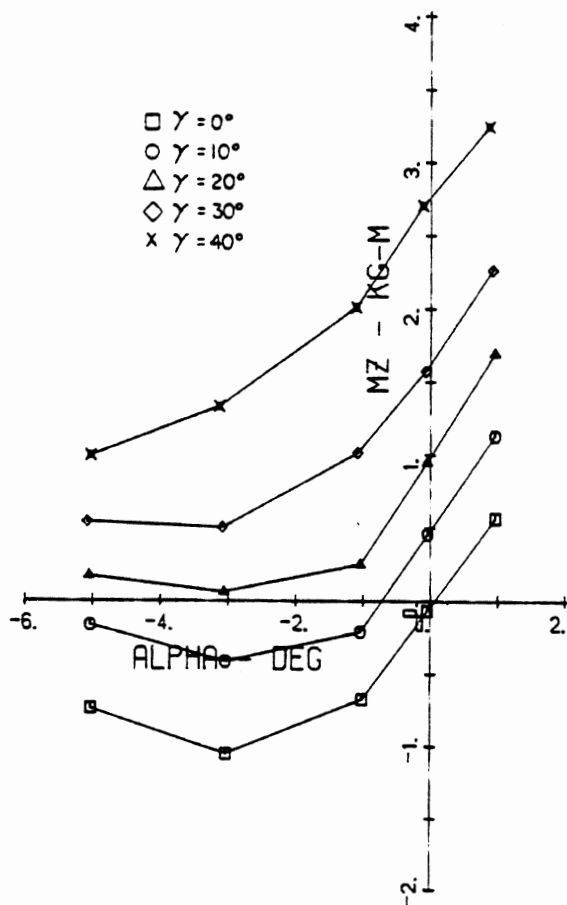
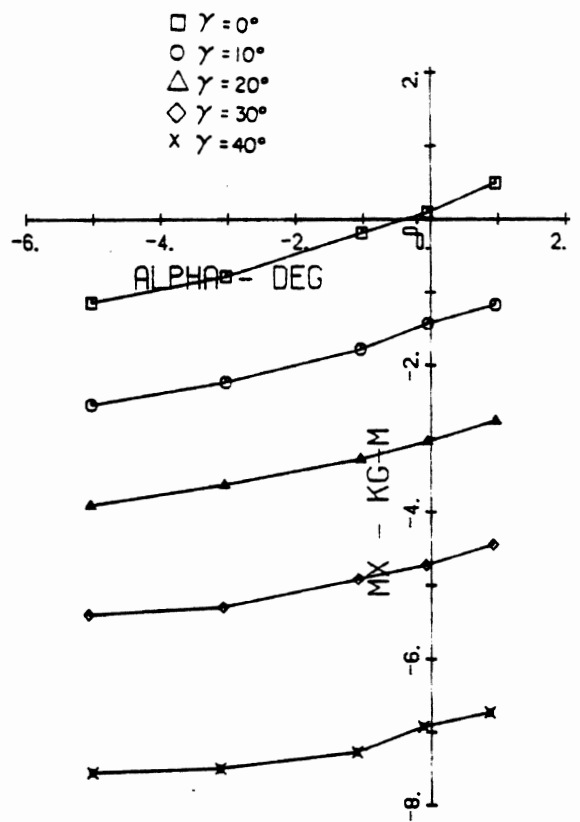
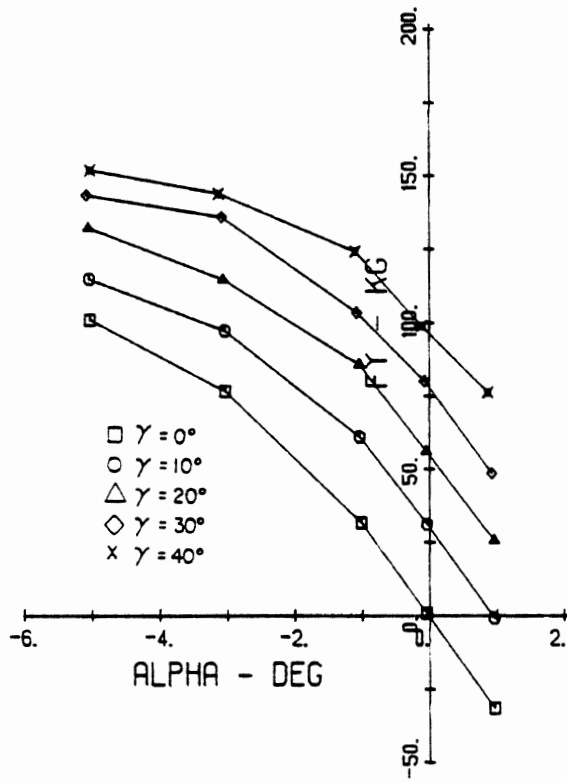


Figure 3.2. Summary plots for tire T2.

T2 RELAXATION LENGTHS (Meters)

ALPHA	GAMMA	LEN-FY	SUMSQ/SS**2	LEN-MX	SUMSQ/SS**2	LEN-MZ	SUMSQ/SS**2
.965	.011	.2207	.0015	.1137	.0383	.1917	.1218
-.045	.007	.0515	3.4737	.1911	3.8793	0.	0.
-1.015	.010	.2009	.0032	.2088	.7680	.1990	.0026
-3.031	.008	.1344	.0010	.1920	.0240	.0920	.0232
-5.027	.004	.1116	.0003	.1234	.0201	.0652	.4209
.960	10.013	.2155	3.4009	.6517	.0033	.1402	.0409
-.039	10.012	.2384	.0034	.0622	.0159	.0101	.5035
-1.039	10.010	.2118	.0002	.1996	.0063	.6084	3.5339
-3.039	10.011	.1204	.0017	.2112	.0068	.1100	.2975
-5.038	10.012	.0808	.0051	.1335	.0039	.0524	5.4773
.958	20.008	.1871	.0020	.6788	.0018	.0389	.0389
-.018	20.007	.5361	.0014	.1524	.0007	.1744	.1744
-1.042	20.006	.1960	.0007	.6392	.0026	.0058	4.0866
-3.061	20.011	.1152	.0006	.1250	.0011	.3097	4.0866
-5.054	20.003	.0774	.0011	.1106	.0014	.1170	62.5880
.922	30.008	.2338	.0125	.3072	.0030	.0451	10.0206
-.072	30.002	.1289	.0006	186.0615	.0020	0.	0.
-1.080	30.010	.1704	.0014	0.	0.	.0183	.0949
-3.084	30.013	.1295	.0005	.1109	.0014	.1829	1.3437
-5.081	30.014	.0579	.0043	.0844	.0019	.0997	.6692
-5.028	40.013	.0619	.0026	.0512	.0013	.1362	1.1016
-3.127	40.011	.0981	.0010	.0664	.0009	.2085	.6862
-1.103	40.006	.2402	.0018	.1951	.0004	0.	0.
-.115	40.008	.3554	.0010	0.	0.	0.	0.
.868	40.003	.0856	.0073	0.	0.	0.	0.

T1 RELAXATION LENGTHS

ALPHA	GAMMA	LEN-FY	SUMSQ/SS**2	LEN-MX	SUMSQ/SS**2	LEN-MZ	SUMSQ/SS**2
.961	.011	.1713	.0052	.1094	.1706	.1491	.0449
-.043	.009	.1820	8.8716	.0853	11.1278	.0021	123.4301
-1.050	.010	.1548	.0016	.4109	.3433	.1612	.0163
-3.050	.011	0.	0.	0.	0.	0.	0.
-5.052	.007	.1000	.0045	.1344	.0360	.0616	.4245
.947	10.011	0.	0.	0.	0.	0.	0.
-.055	10.009	0.	0.	0.	0.	0.	0.
-1.052	10.007	.1750	.0013	.2664	.0237	.2222	.3971
-3.050	10.008	.1323	.0001	.3688	.0052	51.5898	.0132
-5.054	10.010	.0826	.0013	.1085	.0060	.0421	.9205
.930	20.004	.1923	.0243	.2585	.0043	.1158	.0215
-.078	20.000	.1923	.0044	.0076	.0044	.0043	.1358
-1.057	20.008	.1561	.0005	.2899	.0033	.2262	12.4225
-3.078	20.012	.1049	.0004	.1015	.0020	.0914	3.9645
-5.068	20.013	.0771	.0052	.1030	.0027	.0652	94.1876
.908	30.002	.1978	.0120	.0942	.0009	.0317	.0161
-.092	30.003	.4737	.0011	0.	0.	.0094	.2000
-1.097	30.004	.1362	.0020	.1146	.0018	0.	0.
-3.093	30.005	.1012	.0041	.1820	.0049	.1679	9.2827
-5.092	30.013	.0655	.0174	.0701	.0031	.1387	3.1376
-5.127	40.020	.0902	.0289	.1152	.0013	.1000	.9395
-3.114	40.012	.0655	.0117	.0219	.0024	.1832	1.3918
-1.090	40.009	.2460	.0078	.0229	.0019	.0024	.8218
-.133	40.003	.0875	.0048	.2067	.0012	.0055	.0618
.859	39.995	.1164	.0056	.1606	.0012	.0165	.0118

Table 3.3. Relaxation Lengths Summaries

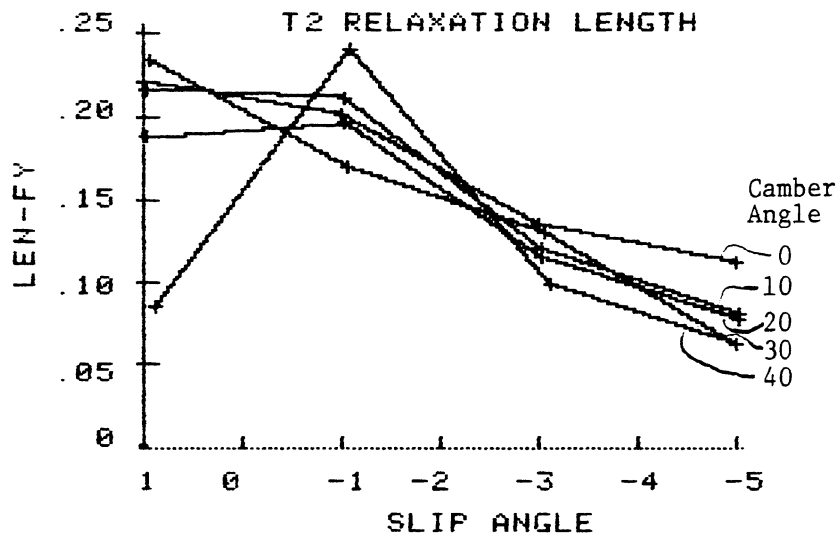
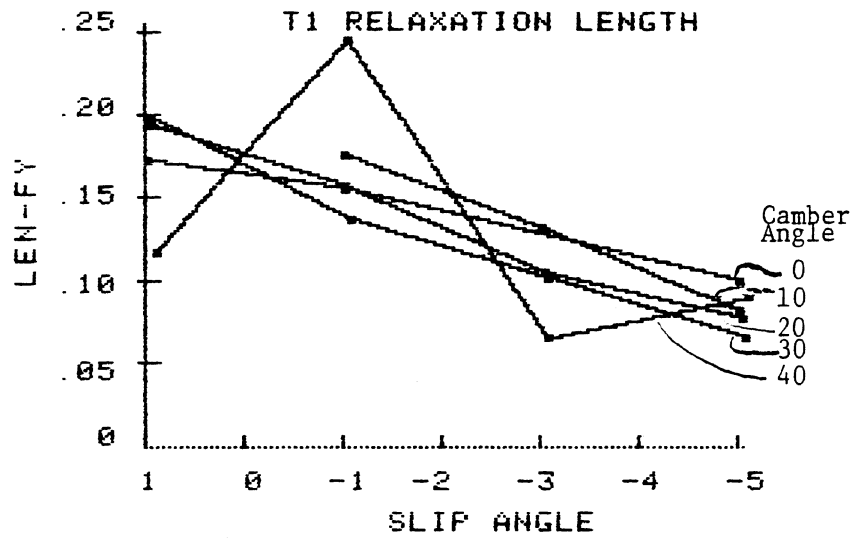


Figure 3.3. Lateral force relaxation lengths.

4. TESTS 2 AND 3 RESULTS

Processing of the speed tests ($V=40-120$ Km/h) of tire T3 involved calculating the steady-state values of forces, moments, and geometry for each test condition. Since these tests are a combination of two or three test conditions, all tests are divided into data processing segments. Figure 4.1 depicts the alpha time history for the test ASTEP1. Steady-state values of all variables of interest were calculated for each segment. The following algorithm was used to generate these values.

1. Calculate the average rotational velocity for the segment (i.e., WAV in rad/sec)
2. Calculate the average time for a revolution of the tire ($TREV = 2\pi/WAV$)
3. Calculate the maximum number of full revolutions (NMAX) in .8 seconds
4. Average all forces, moments, and geometric variables over $NMAX*TREV$ seconds
5. Print all steady-state values

Appendix B contains the output generated by the processing of the speed tests ($V=40$ to 120 Km/h) of tire T3. Test information and the steady-state results for each segment are listed.

The algorithm discussed in Section 3 was used to generate the steady-state values of the low-speed ($V \leq 1$ km/h) tests of tire T3. Appendix C contains the results of this processing.

These listings were then used to generate the summary tables and plots which follow (Tables 4.1 to 4.5 and Figures 4.2 to 4.18).

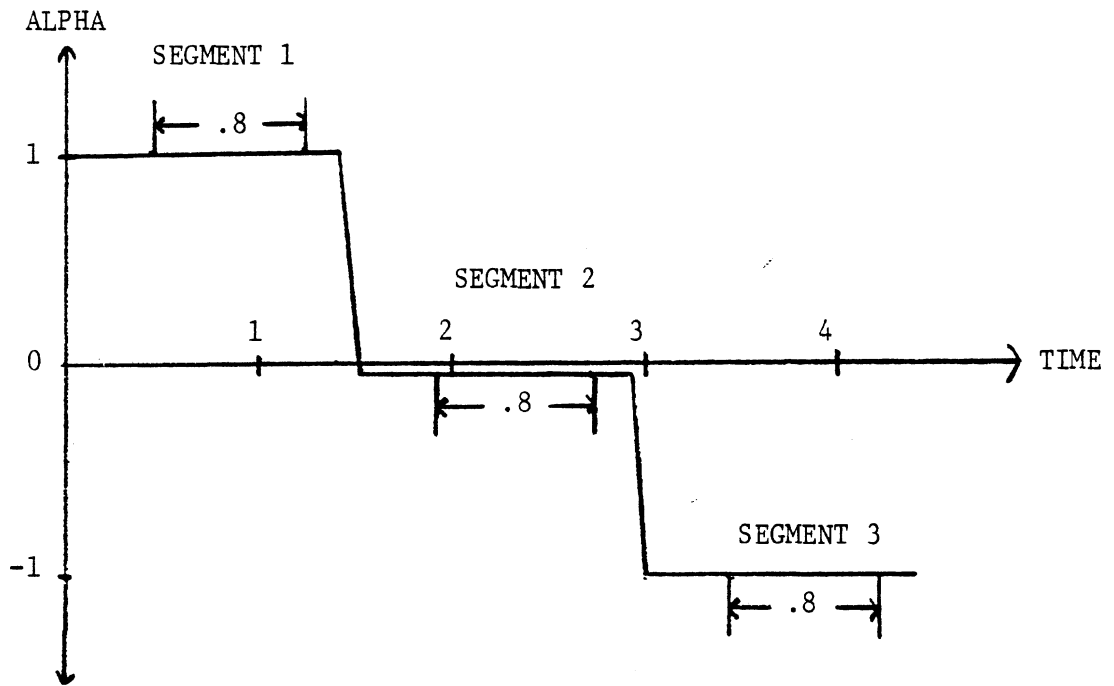


Figure 4.1. Alpha time history for test ASTEP1.

T=25 P=32 PSI

ALPHA	GAMMA	FY (Kg)	MX (Kg-m)	MZ (Kg-m)
-----	-----	---	---	---
.945	-.003	-30.504	.424	.550
-.048	-.003	-2.522	.052	-.031
-1.049	-.002	25.365	-.305	-.641
-3.050	-.008	69.018	-1.046	-1.123
-5.049	-.010	105.061	-1.673	-1.306
-.059	9.995	25.437	-1.490	.407
-.074	19.998	50.358	-3.049	.830
-.094	29.993	76.920	-4.718	1.357
-.123	39.986	108.022	-7.196	2.212

T=25 P=34.25

ALPHA	GAMMA	FY	MX	MZ
-----	-----	---	---	---
.950	-.003	-31.021	.475	.518
-.053	-.005	-3.007	.087	-.043
-1.058	-.002	24.916	-.255	-.608
-3.051	-.003	68.356	-.944	-1.107
-5.051	-.005	101.613	-1.492	-1.203
-.059	9.995	24.698	-1.456	.397
-.087	19.998	48.756	-2.910	.781
-.091	29.992	76.276	-4.716	1.272
-.135	39.995	102.897	-7.035	2.080

T=25 P=37 PSI

ALPHA	GAMMA	FY	MX	MZ
-----	-----	---	---	---
.941	-.004	-31.370	.511	.503
-.040	.008	-3.452	-.003	-.055
-1.042	.005	24.807	-.346	-.609
-3.040	.004	67.372	-.807	-1.037
-5.041	.009	99.445	-1.207	-1.090
-.051	10.002	23.696	-1.665	.357
-.060	19.995	46.239	-3.153	.719
-.097	30.002	74.348	-4.807	1.165
-.137	40.000	98.756	-7.125	1.917

T=50 P=34.25 PSI

ALPHA	GAMMA	FY	MX	MZ
-----	-----	---	---	---
.943	-.008	-27.202	-.286	.457
-.059	-.008	-3.964	-.710	-.063
-1.056	-.014	19.223	-1.092	-.582
-3.049	-.014	58.939	-1.843	-1.197
-5.053	-.013	89.543	-2.373	-1.364
-.070	9.989	20.915	-2.560	.318
-.094	19.991	44.030	-4.049	.649
-.113	29.987	69.631	-5.814	.983
-.159	39.987	98.130	-8.238	1.604

Table 4.1. Tests 2 and 3 Summary of Steady-State Values of Low-Speed Tests of T3.

T=25 P=32 PSI

VELOCITY	ALPHA	GAMMA	FY (Kg)	MX (Kg-m)	MZ (Kg-m)
39.606	.966	.015	-32.259	.387	.606
39.638	-.042	.014	4.704	-.004	-.062
39.670	-1.043	.002	39.739	-.331	-.698
39.509	-3.039	.003	82.835	-.848	-.719
39.413	-5.041	.005	105.868	-1.236	-.426
39.622	-.058	10.007	35.756	-1.570	.558
39.606	-.052	20.004	62.378	-3.083	1.177
39.509	-.078	30.010	87.842	-4.770	1.860
39.509	-.112	40.002	108.095	-6.937	3.055
79.469	.941	.006	-32.699	.346	.552
79.469	-.034	.010	1.969	-.034	-.073
79.502	-1.034	.001	35.648	-.324	-.689
79.357	-3.042	.015	77.977	-.808	-.788
79.260	-5.043	.011	99.935	-1.184	-.474
79.405	-.055	10.003	33.575	-1.590	.595
79.389	-.066	20.003	60.609	-3.024	1.250
79.276	-.069	30.000	87.851	-4.672	1.921
79.292	-.106	40.000	107.551	-6.668	3.131
119.381	.959	.006	-34.223	.234	.505
119.349	-.030	.007	-.594	-.128	-.074
119.268	-1.032	.002	31.039	-.357	-.660
119.381	-3.050	-.005	70.116	-.898	-.829
119.140	-5.056	-0.	96.247	-1.286	-.757
119.220	-.053	10.003	31.661	-1.755	.557
119.220	-.105	19.852	56.839	-3.206	1.151
118.995	-.075	29.996	82.826	-4.687	1.787
119.317	-.124	40.001	104.466	-6.486	2.858

Table 4.2. Room Temperature at 32 psi Speed-Test Summary.

T=25 P=34.25 PSI

VELOCITY	ALPHA	GAMMA	FY (Kg)	MX (Kg-m)	MZ (Kg-m)
-----	-----	-----	--	--	--
39.896	.965	.002	-33.983	.030	.580
39.976	-.037	.003	.753	-.356	-.054
39.783	-1.039	.001	33.452	-.632	-.650
39.815	-3.037	-.001	72.665	-1.193	-.754
39.429	-5.041	-.003	100.502	-1.602	-.793
39.558	-.057	10.007	31.234	-1.975	.525
39.670	-.072	20.006	56.685	-3.479	1.041
39.670	-.085	30.000	82.562	-5.165	1.600
39.767	-.120	40.002	107.923	-7.392	2.649
79.453	.956	.009	-34.545	-.117	.524
79.502	-.055	.005	.358	-.421	-.075
79.743	-1.056	-.008	31.720	-.746	-.617
79.759	-3.049	-.004	69.431	-1.183	-.710
79.437	-5.054	0.	99.939	-1.583	-.829
79.502	-.046	9.999	30.132	-2.012	.580
79.341	-.064	19.999	55.515	-3.446	1.171
79.791	-.096	30.002	83.343	-5.081	1.687
79.437	-.134	40.004	107.836	-7.104	2.705
119.397	.952	.001	-34.886	-.176	.470
119.397	-.051	-0.	-1.887	-.494	-.076
119.365	-1.054	-0.	27.791	-.747	-.597
119.317	-3.056	-.006	67.077	-1.279	-.833
119.124	-5.049	-.002	98.556	-1.638	-.913
118.480	-.052	10.009	27.805	-1.411	.543
118.399	-.054	20.000	53.079	-2.746	1.156
118.335	-.091	30.003	81.950	-4.293	1.661
118.367	-.102	40.001	106.312	-6.136	2.658

Table 4.3. Room Temperature at 34.25 psi Speed Test Summaries.

T=25 P=37 PSI

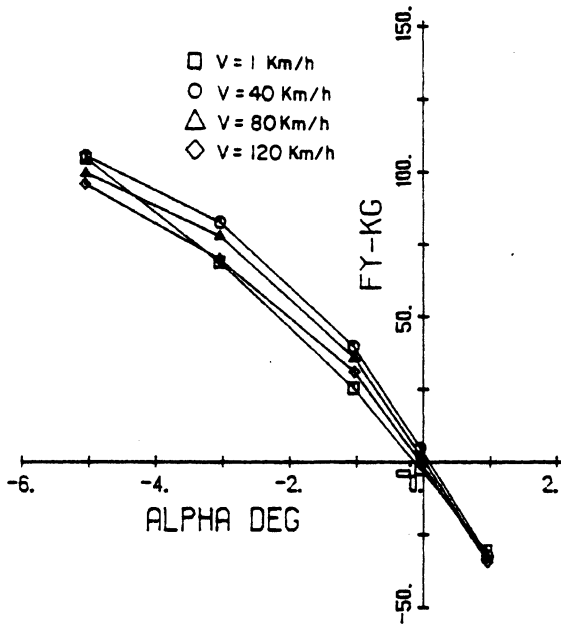
VELOCITY	ALPHA	GAMMA	FY (Kg)	MX (Kg-m)	MZ (Kg-m)
38.930	.960	.007	-35.611	.619	.520
38.753	-.041	.005	-2.064	.201	-.077
38.914	-1.046	.004	29.846	-.127	-.639
38.496	-3.046	.005	77.636	-.762	-.967
37.755	-5.044	.005	109.873	-1.308	-.882
38.866	-.049	10.002	27.252	-1.390	.508
38.817	-.049	20.005	52.199	-2.931	1.003
38.994	-.068	30.004	80.784	-4.678	1.555
38.705	-.102	40.002	108.712	-6.881	2.475
78.053	.967	0.	-37.276	.551	.521
78.053	-.040	.002	-2.926	.200	-.054
78.069	-1.042	.005	29.388	-.152	-.618
78.616	-3.037	.001	76.684	-.761	-.941
78.278	-5.035	.004	108.635	-1.210	-.859
78.568	-.045	9.999	27.243	-1.390	.569
78.456	-.059	20.008	52.526	-2.835	1.107
78.777	-.088	30.003	80.798	-4.511	1.666
78.230	-.107	39.999	107.832	-6.566	2.682
118.673	.955	.004	-36.768	.548	.463
118.512	-.047	.008	-3.964	.190	-.059
118.593	-1.050	.002	27.215	-.145	-.598
118.528	-3.038	.005	73.545	-.759	-.894
118.512	-5.040	.001	104.054	-1.172	-.845
118.625	-.049	10.003	26.240	-1.456	.587
118.303	-.087	20.000	52.775	-2.716	1.147
118.319	-.098	29.998	78.222	-4.345	1.750
118.319	-.113	39.992	105.900	-6.181	2.655

Table 4.4. Room Temperature at 37 psi Speed Tests Summary.

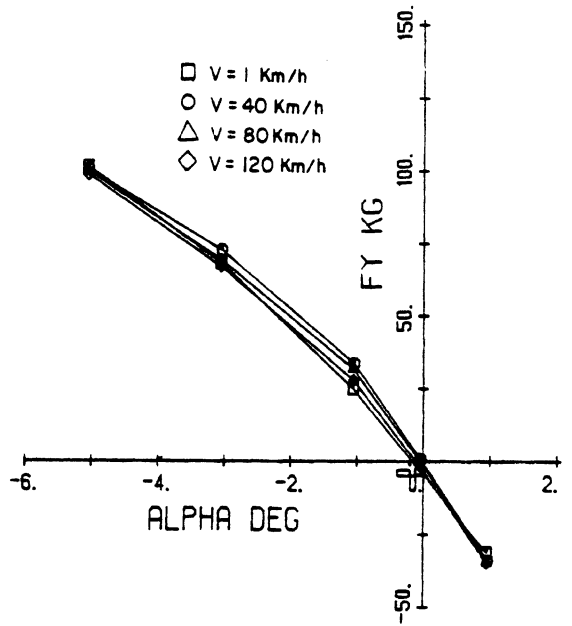
T=50 P=34.25

VELOCITY	ALPHA	GAMMA	FY (Kg)	MX (Kg-m)	MZ (Kg-m)
38.769	.962	-.002	-31.098	.276	.528
38.673	-.060	.005	-2.268	-.112	-.064
38.689	-1.050	0.	25.596	-.455	-.643
38.335	-3.055	.006	69.114	-1.349	-1.145
38.479	-5.049	-.004	101.994	-1.863	-1.197
38.415	-.066	9.992	25.991	-2.052	.411
38.270	-.072	19.996	50.471	-3.558	.845
38.624.	-.098	29.997	78.535	-5.357	1.270
38.351	-.148	39.993	107.995	-7.672	2.113
78.777	.959	-.003	-34.591	-.160	.490
78.810	-.048	-.006	-4.749	-.591	-.096
78.697	-1.051	-.009	24.176	-.922	-.657
78.665	-3.047	.002	68.968	-1.540	-1.133
78.681	-5.051	-.003	102.203	-2.023	-1.186
78.987	-.070	9.998	25.170	-2.185	.426
78.552	-.069	19.995	49.337	-3.595	.901
78.922	-.117	29.989	79.873	-5.308	1.414
78.665	-.130	39.995	106.634	-7.433	2.317
118.432	.951	-.006	-36.192	-.325	.467
118.319	-.047	-.002	-6.341	-.705	-.122
118.319	-1.048	-.013	21.954	-.942	-.667
118.512	-3.043	-.008	66.551	-1.553	-1.086
118.399	-5.043	-.004	99.037	-1.997	-1.199
118.528	-.057	9.993	23.260	-2.185	.446
118.287	-.087	19.999	48.076	-3.477	.897
118.866	-.116	29.980	77.968	-5.088	1.434
118.464	-.155	39.986	105.419	-7.031	2.395

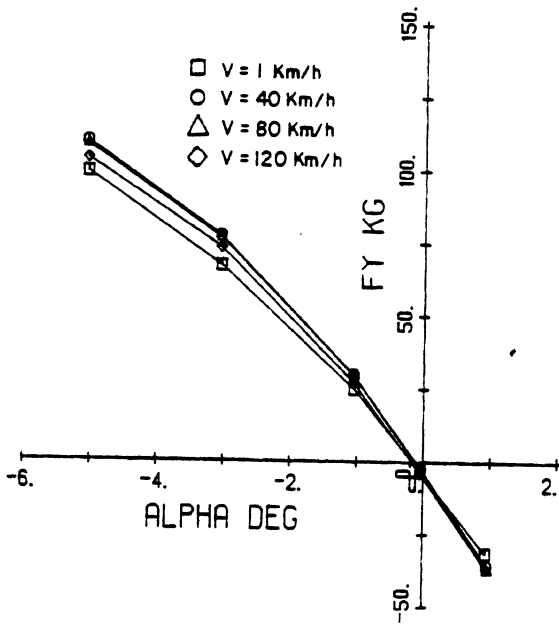
Table 4.5. 50°C at 34.25 psi Speed Tests Summary.



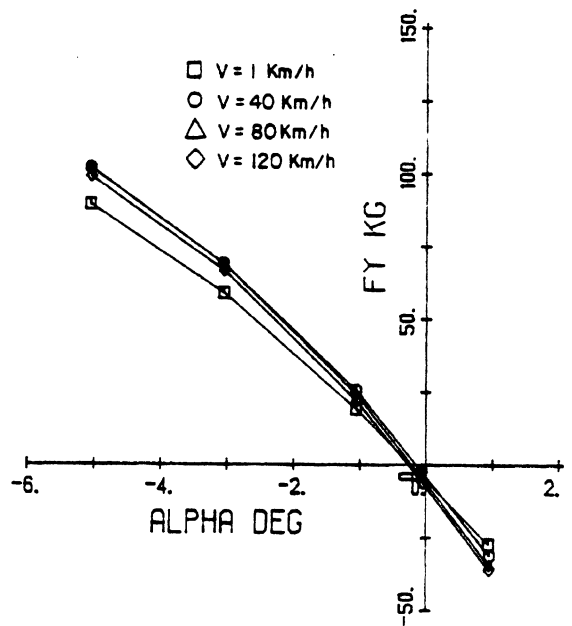
T=25 P=32



T=25 P=34.25

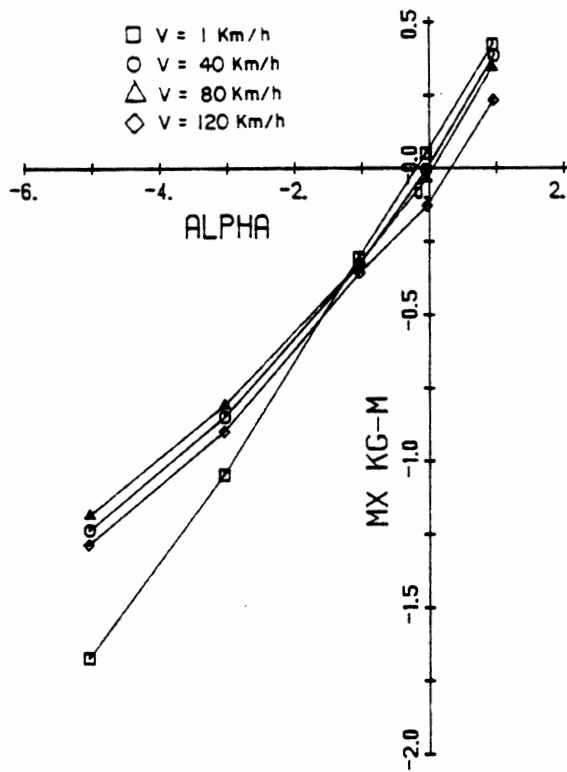


T=25 P=37

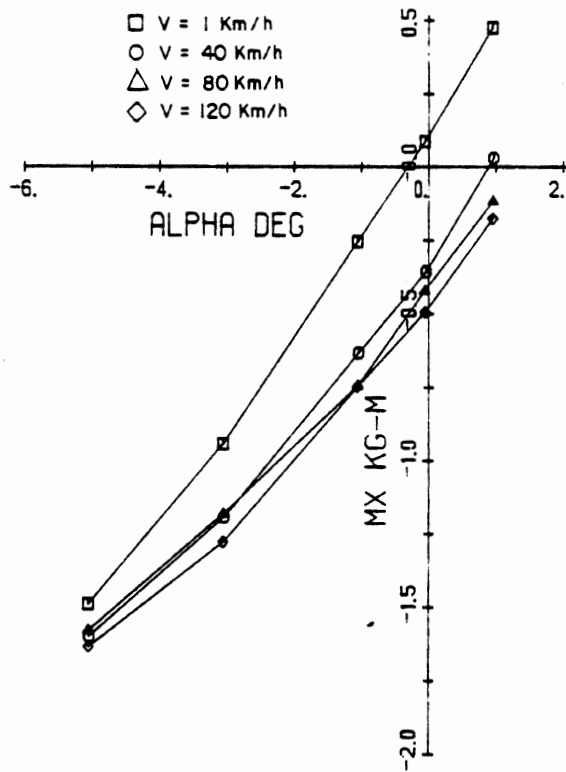


T=50 P=34.25

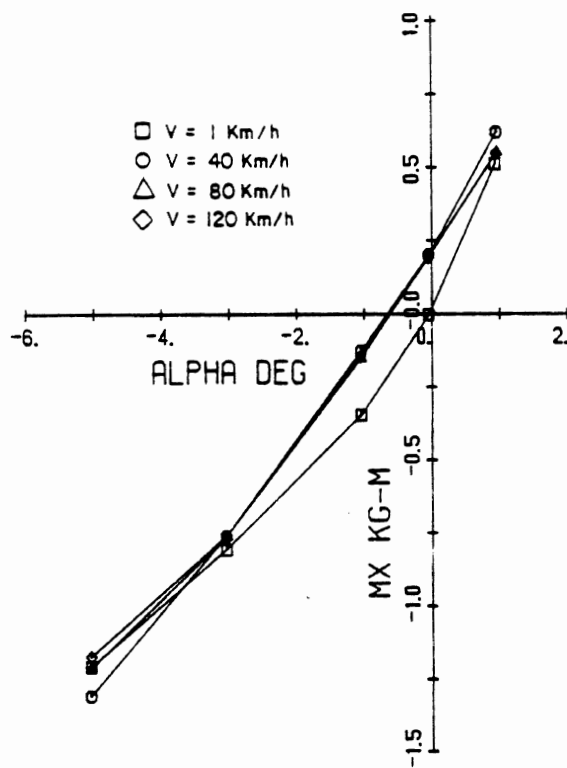
Figure 4.1. FY vs. Alpha - Constant Velocity Plots.



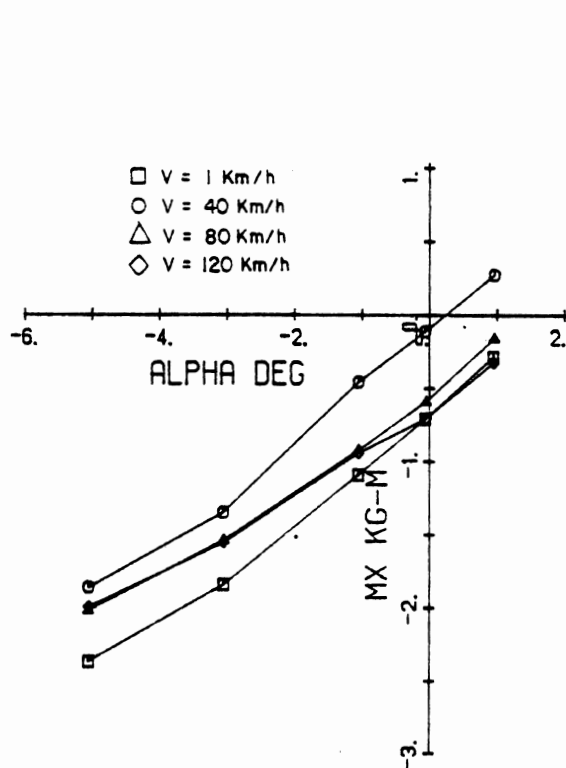
T=25 P=32



T=25 P=34.25

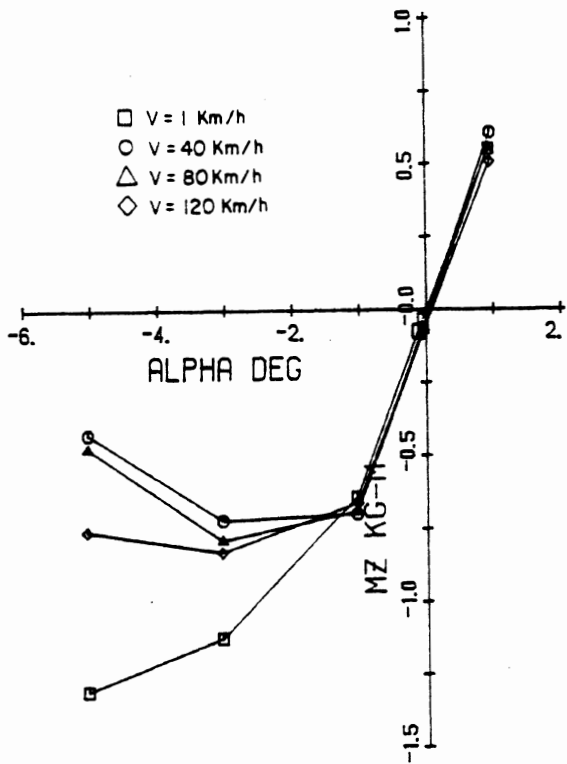


T=25 P=37

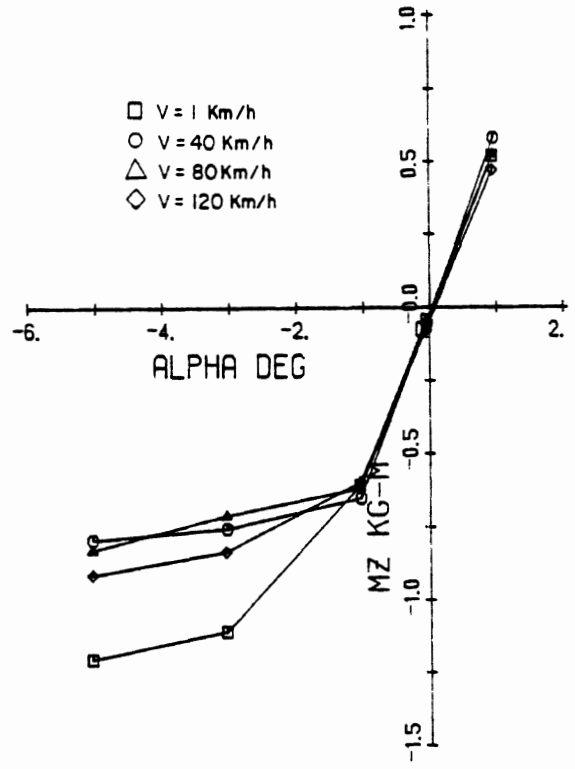


T=50 P=34.25

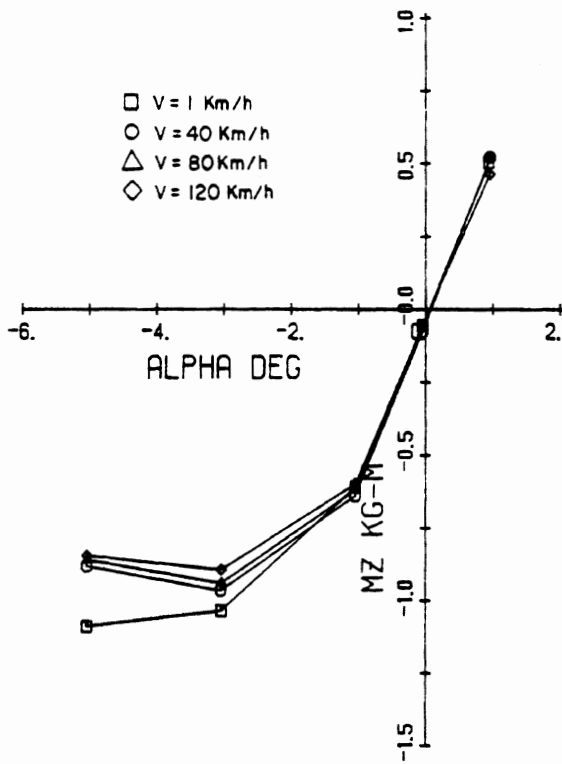
Figure 4.2. MX vs. Alpha - Constant Velocity Plots.



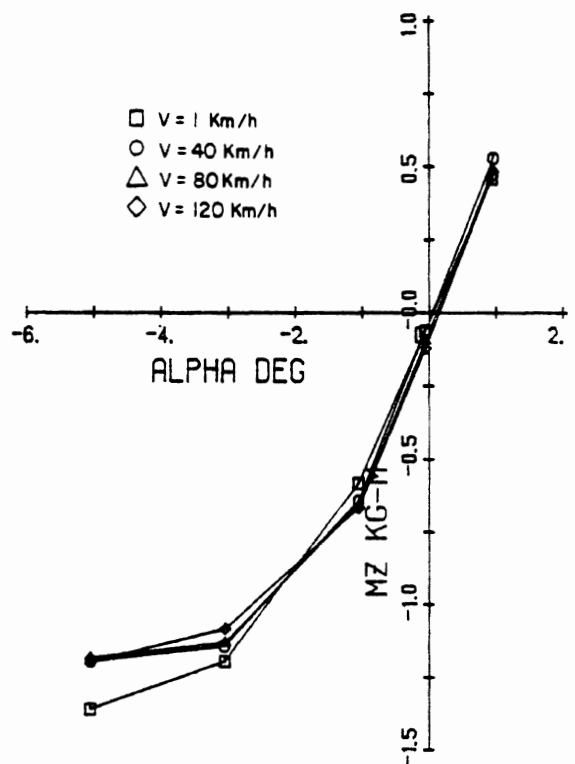
T=25 P=32



T=25 P=34.25



T=25 P=37



T=50 P=34.25

Figure 4.3. MZ vs. Alpha - Constant Velocity Plots.

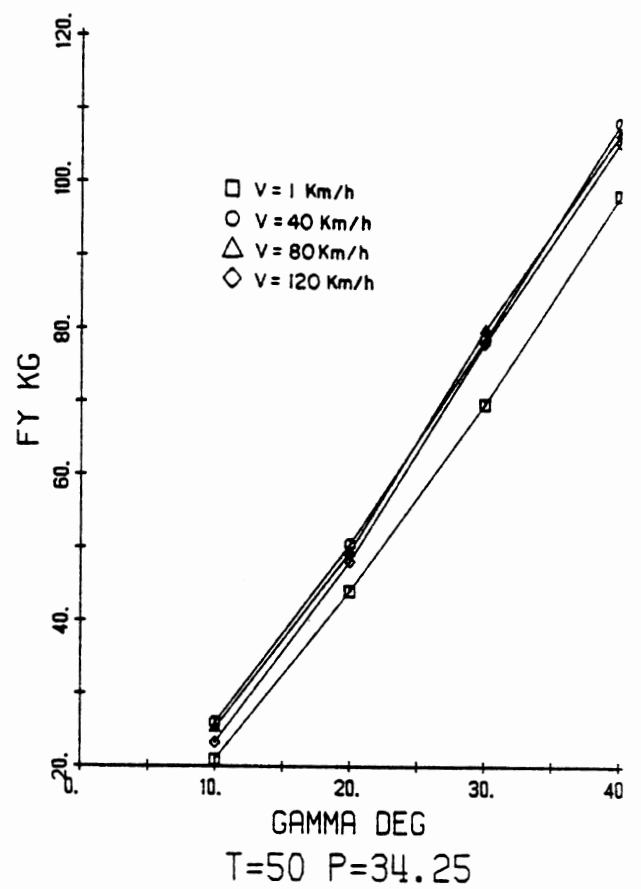
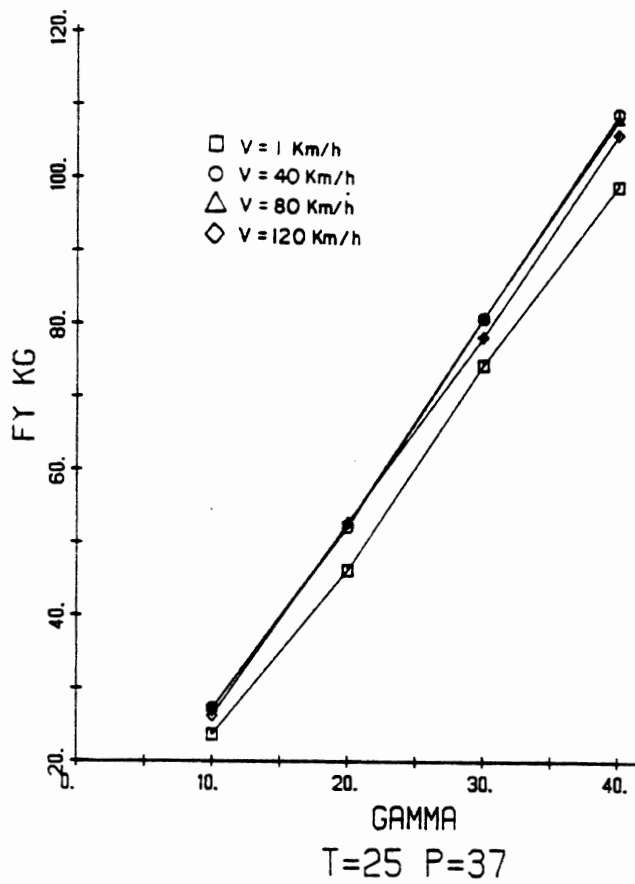
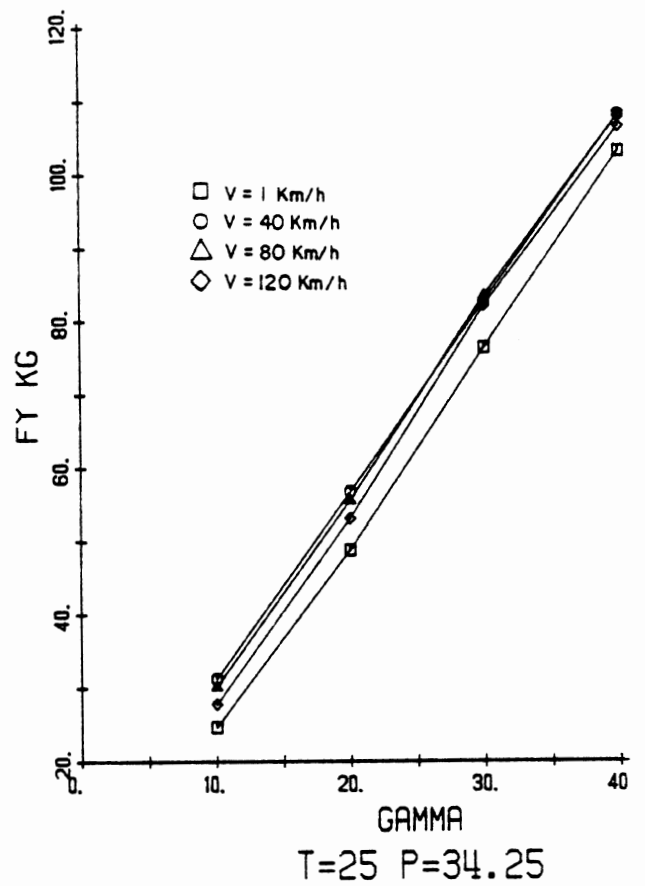
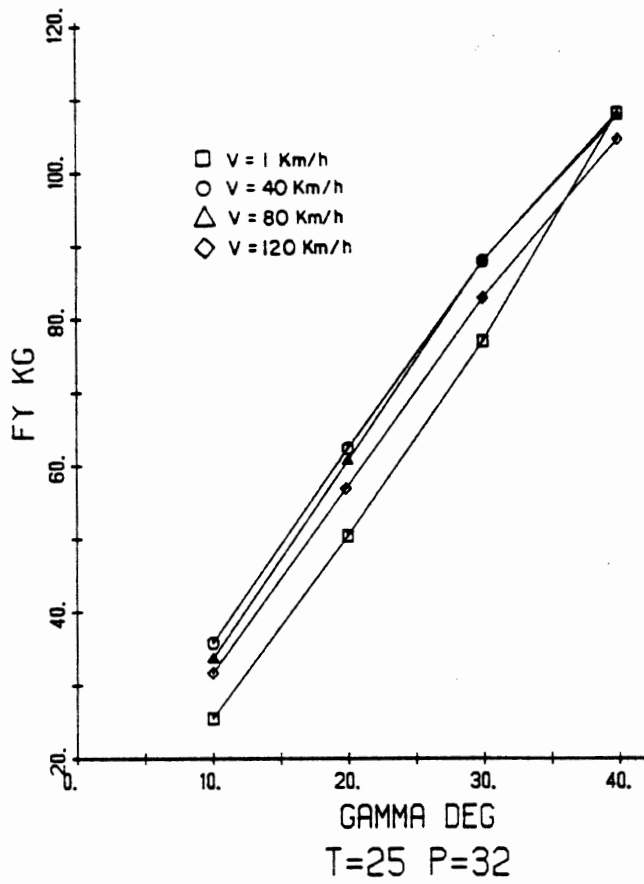
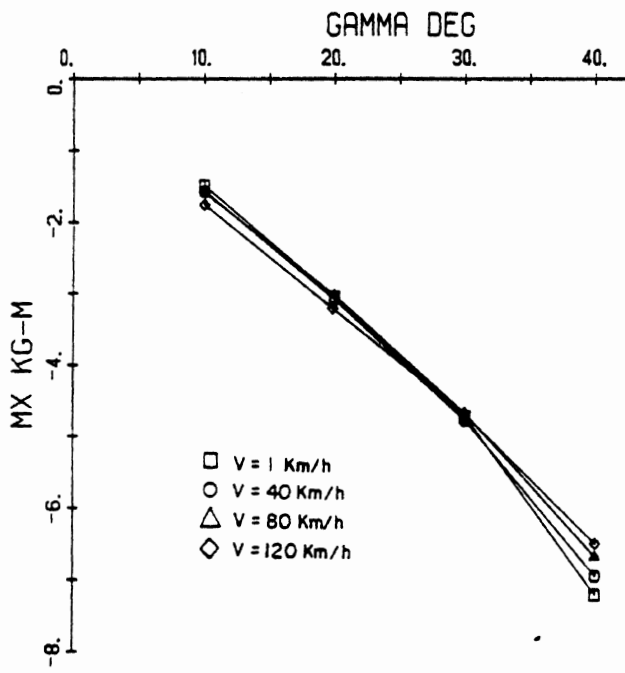
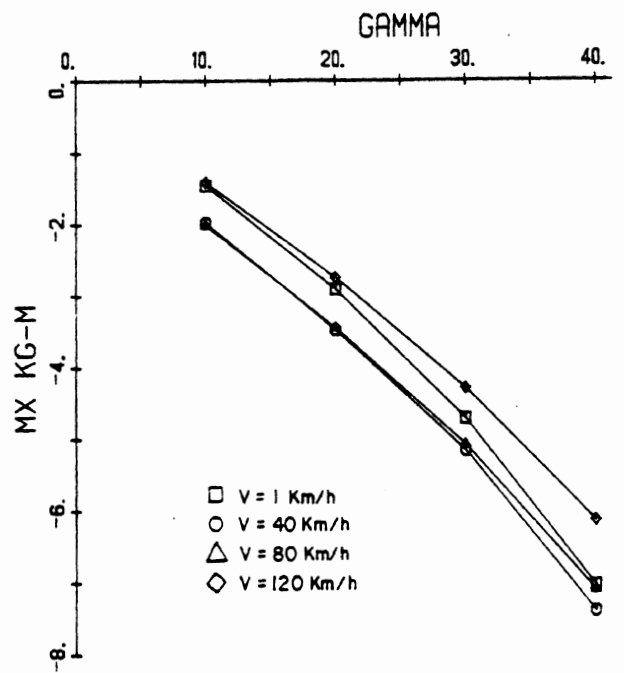


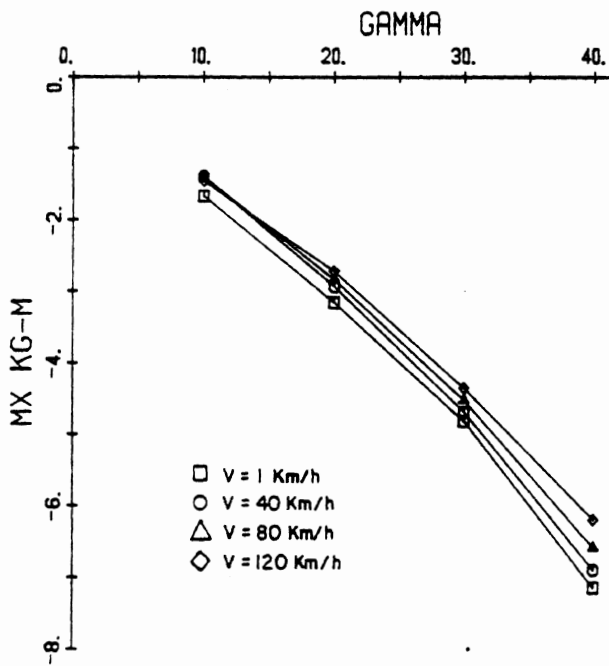
Figure 4.4. FY vs. Gamma - Constant Velocity Plots.



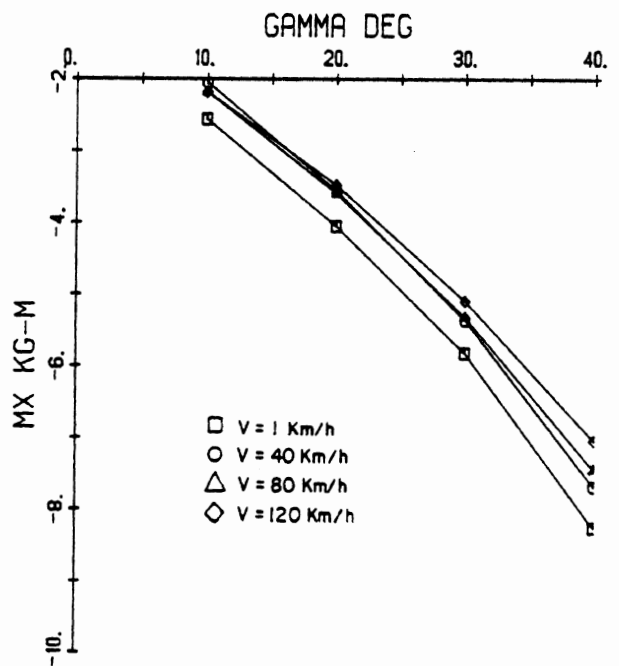
T=25 P=32



T=25 P=34.25



T=25 P=37



T=50 P=34.25

Figure 4.5. MX vs. Gamma - Constant Velocity Plots.

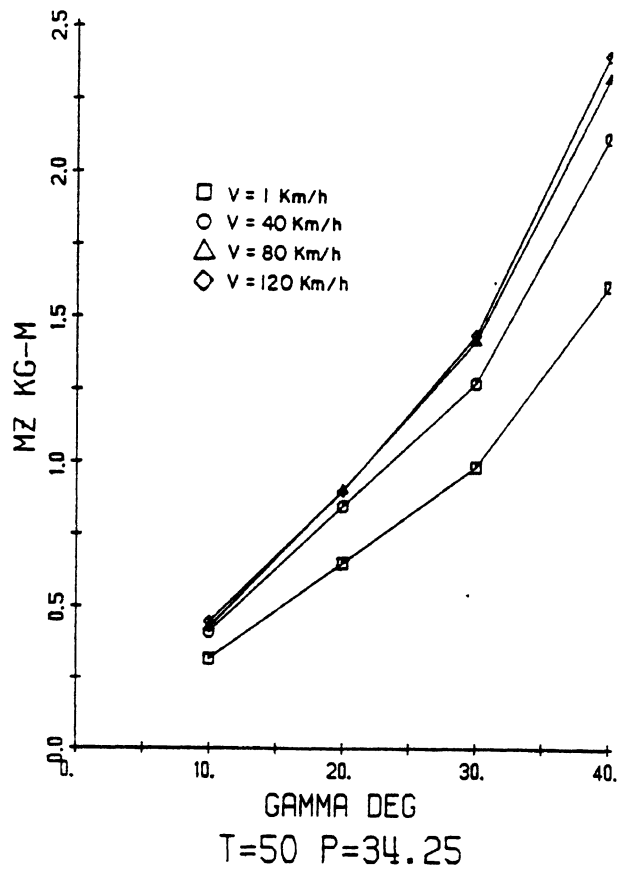
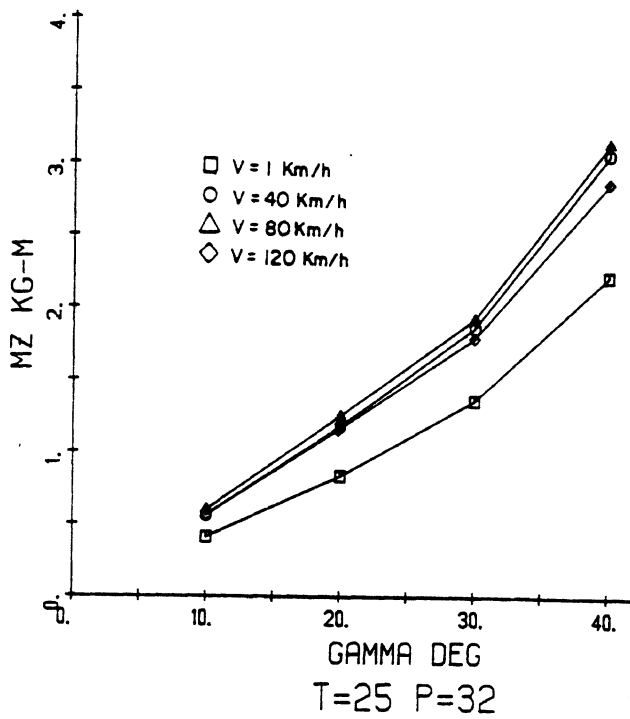
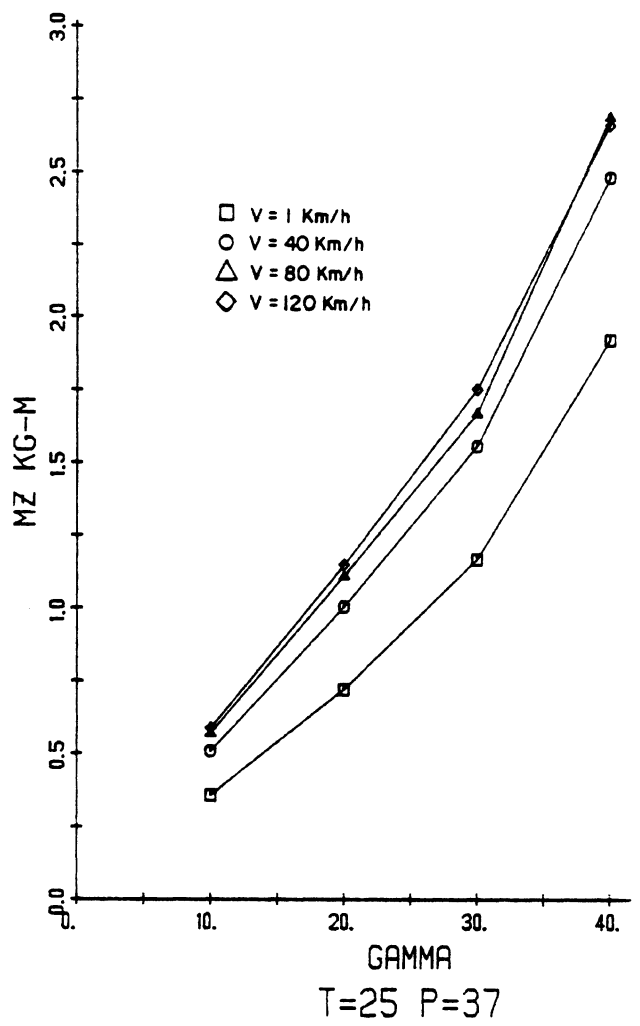
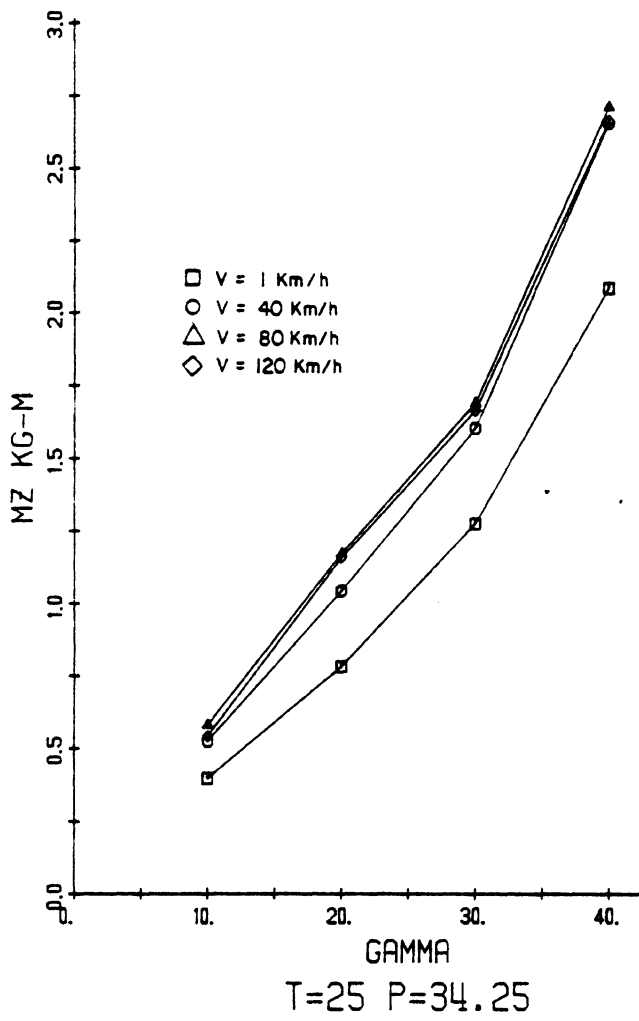
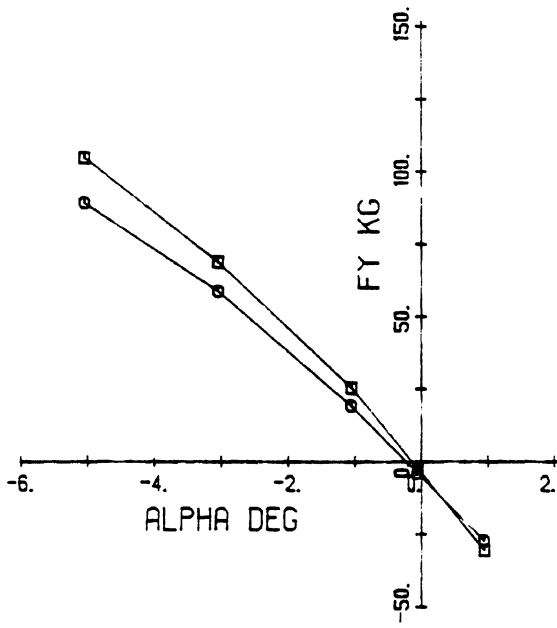
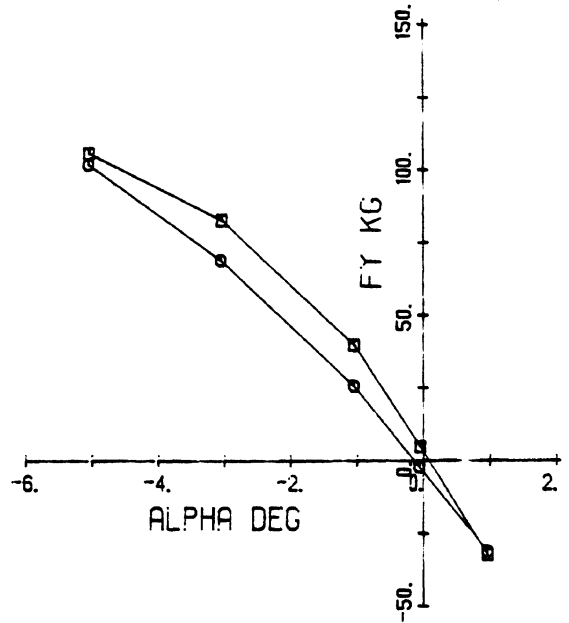


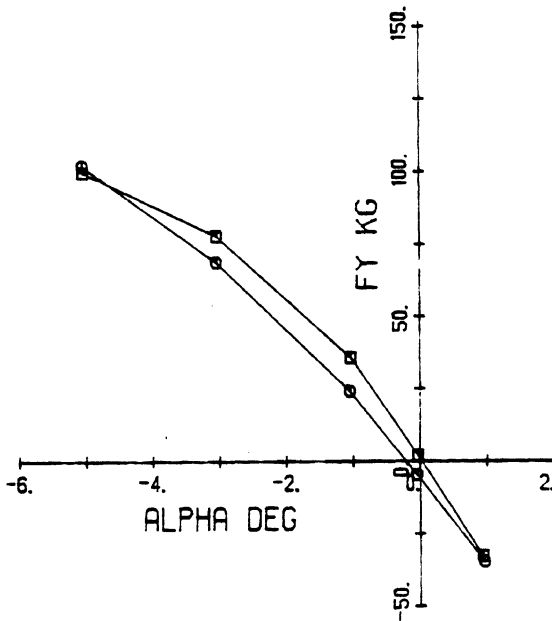
Figure 4.6. MZ vs. Gamma - Constant Velocity Plots.



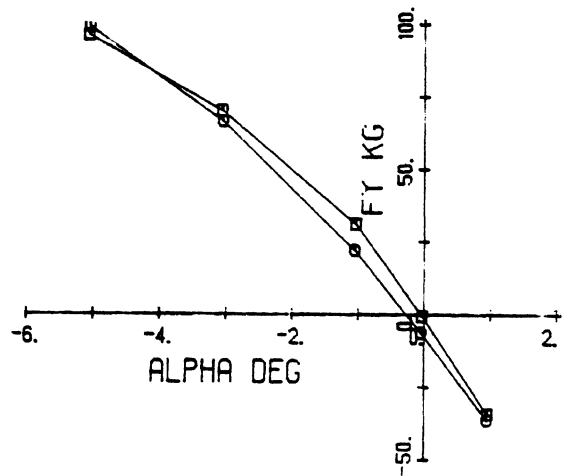
V=1 □ T = 25° C
 ○ T = 50° C



V=40 □ T = 25° C
 ○ T = 50° C

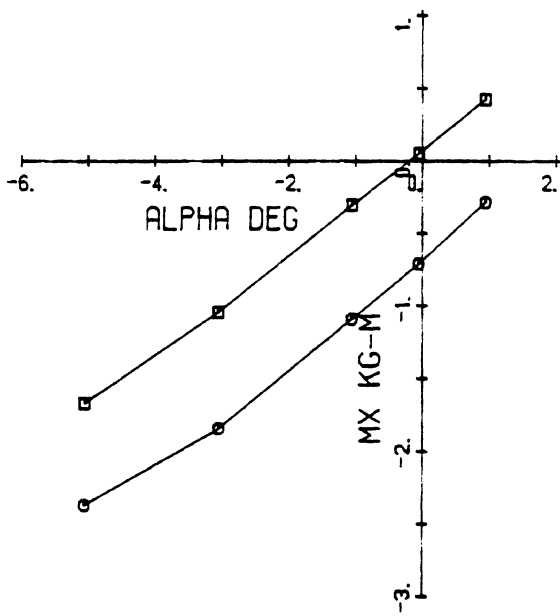


V=80 □ T = 25° C
 ○ T = 50° C

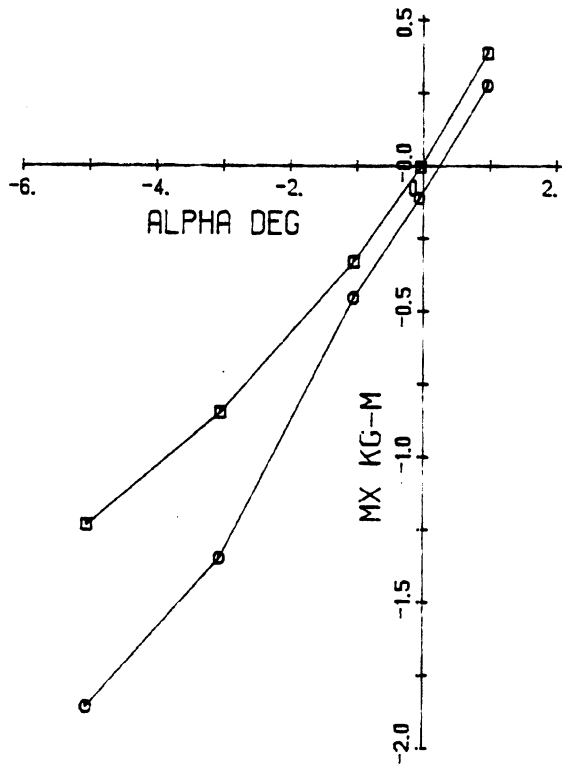


V=120 □ T = 25° C
 ○ T = 50° C

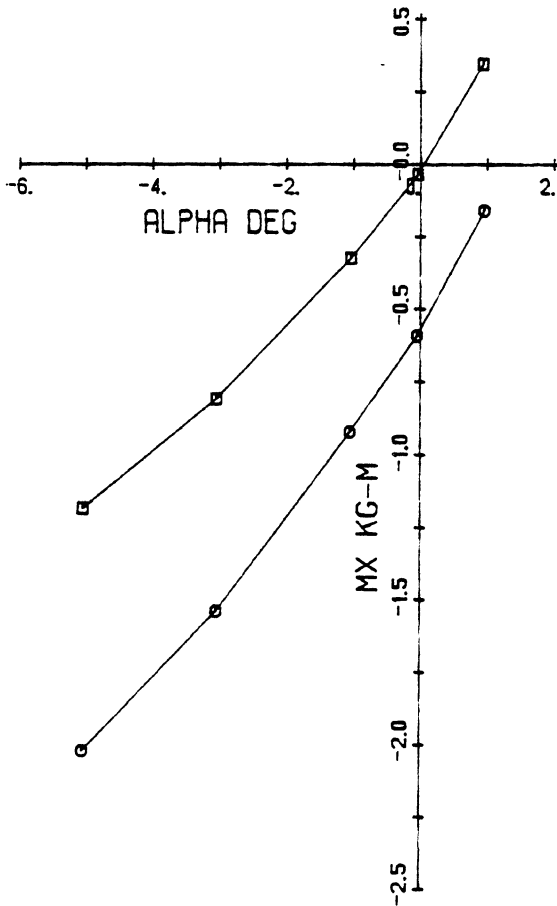
Figure 4.7. FY vs. Alpha for T = 25° P = 32 psi and T = 50° P = 34.25 psi.



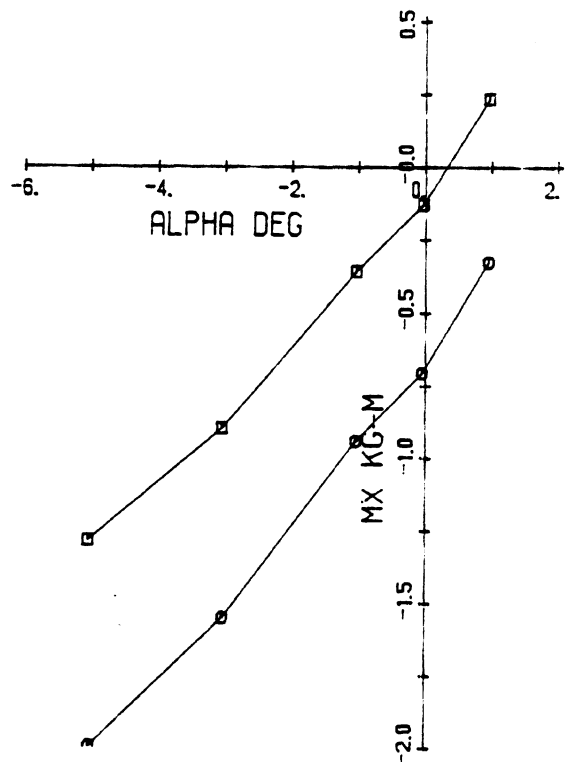
V=1 □ T = 25° C
 ○ T = 50° C



V=40 □ T = 25° C
 ○ T = 50° C

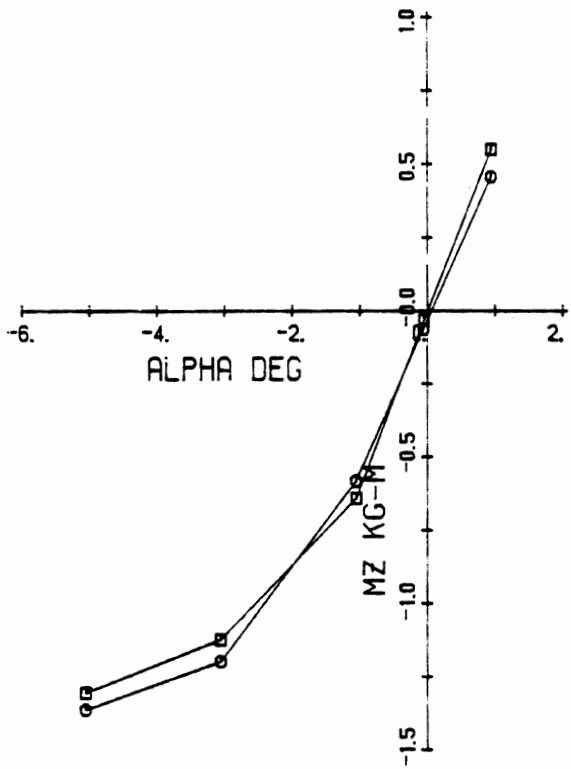


V=80 □ T = 25° C
 ○ T = 50° C

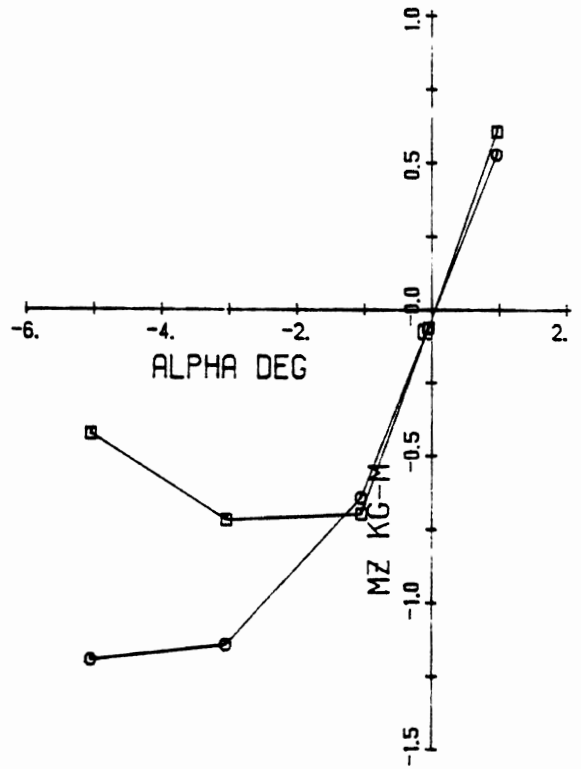


V=120 □ T = 25° C
 ○ T = 50° C

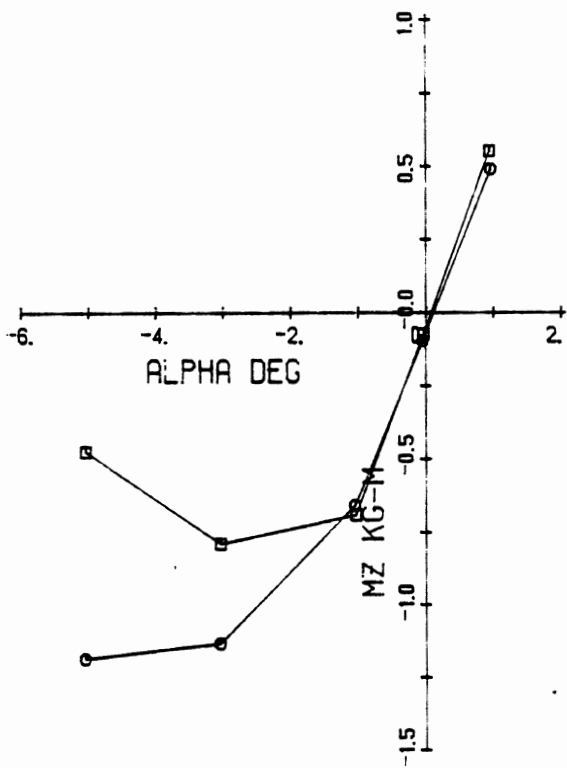
Figure 4.8. MX vs. Alpha for T = 25°, P = 32 psi and T = 50°, p = 34.25 psi.



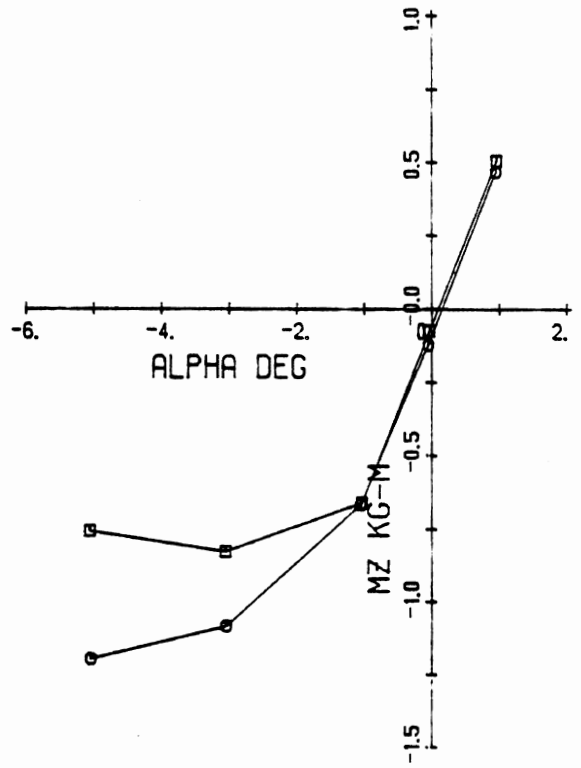
V=1 □ T = 25° C
 ○ T = 50° C



V=40 □ T = 25° C
 ○ T = 50° C



V=80 □ T = 25° C
 ○ T = 50° C



V=120 □ T = 25° C
 ○ T = 50° C

Figure 4.9. MZ vs. Alpha for T = 25°, P = 32 psi and T = 50°, p = 34.25 psi.

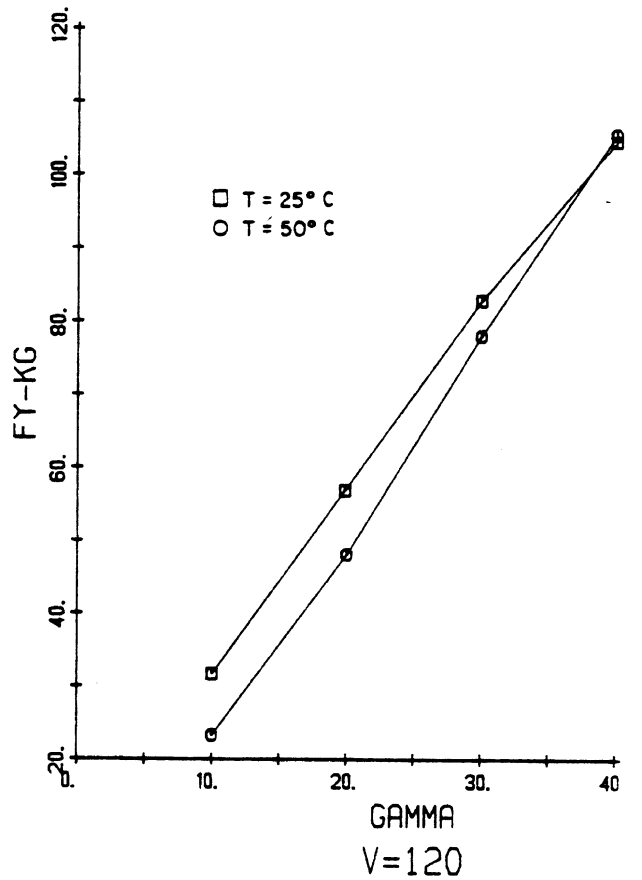
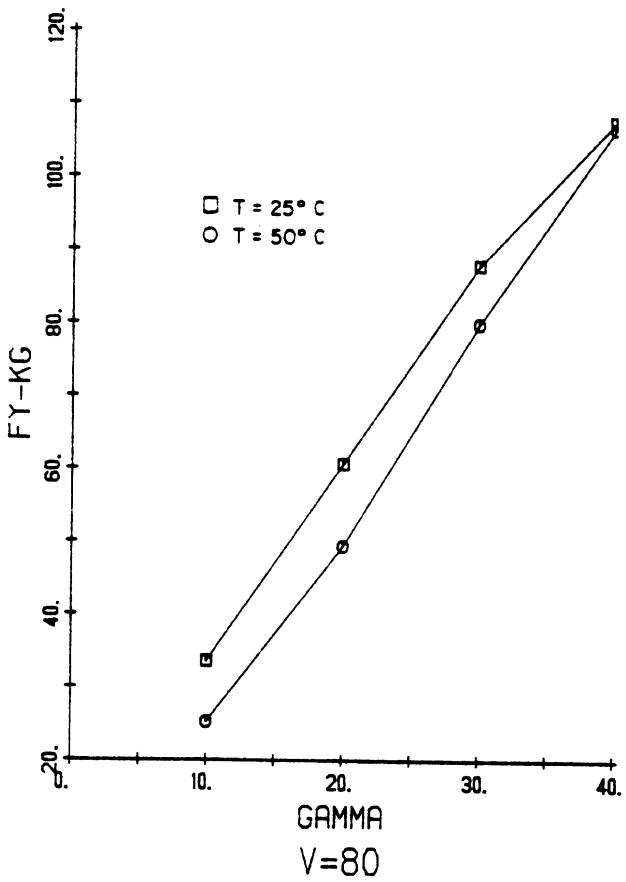
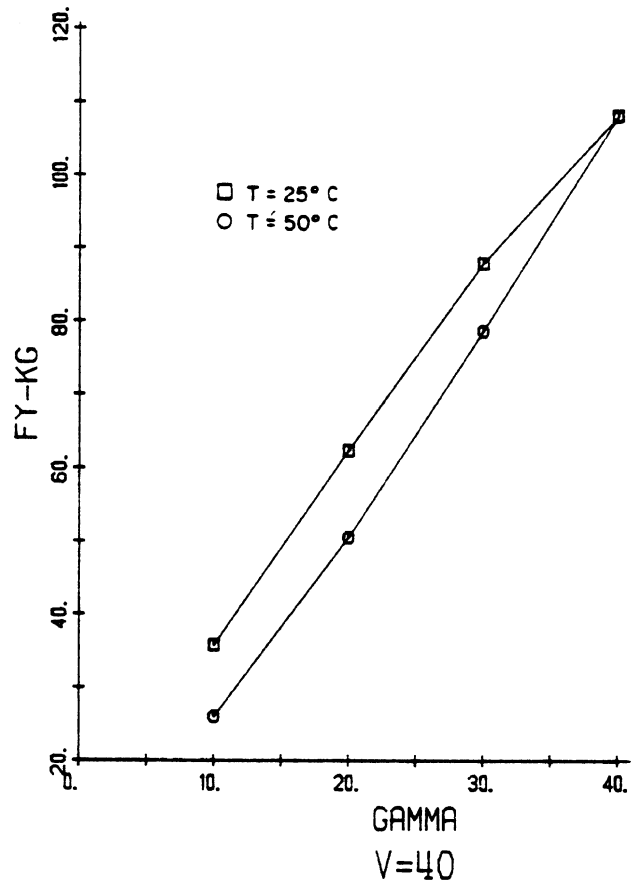
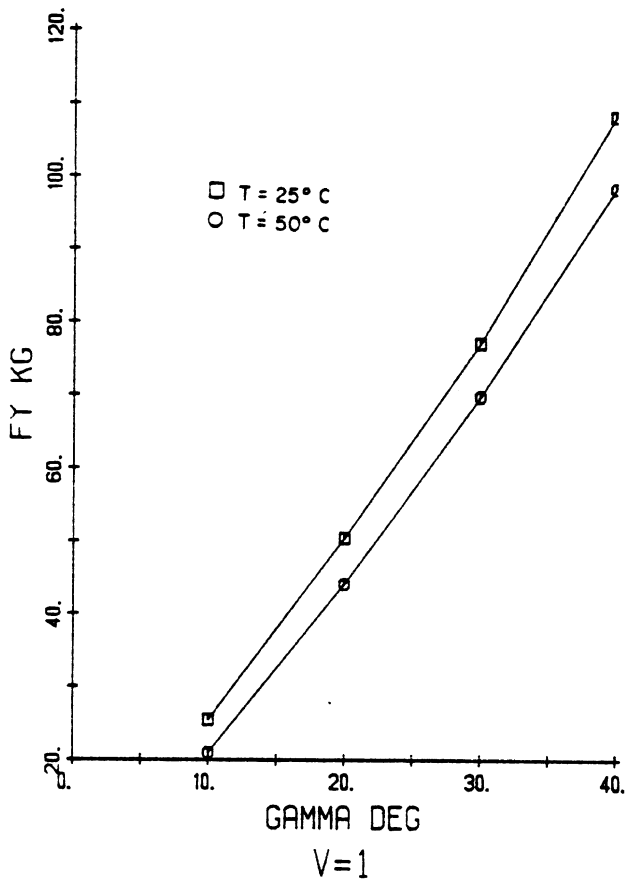
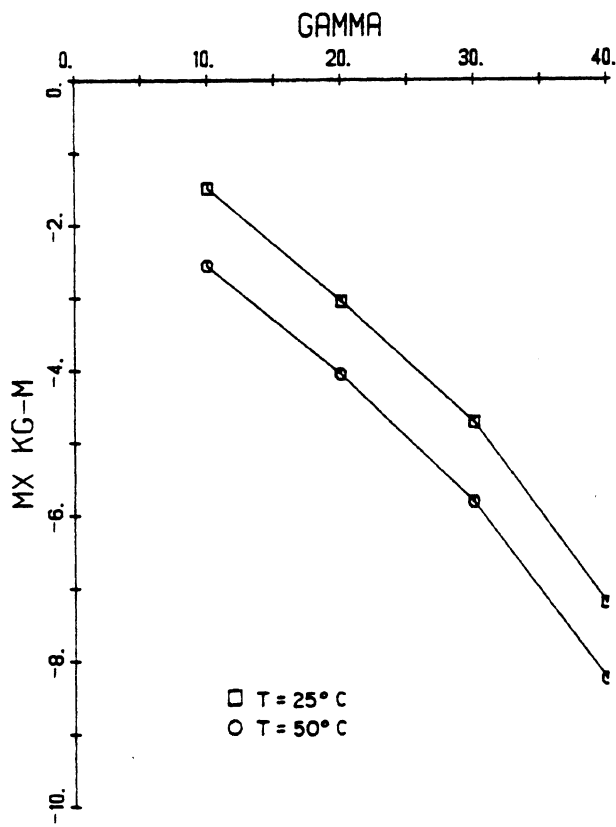
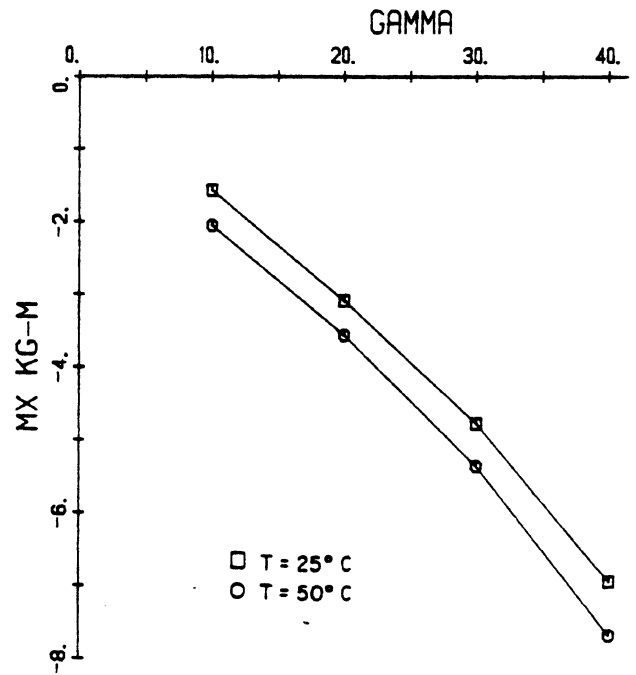


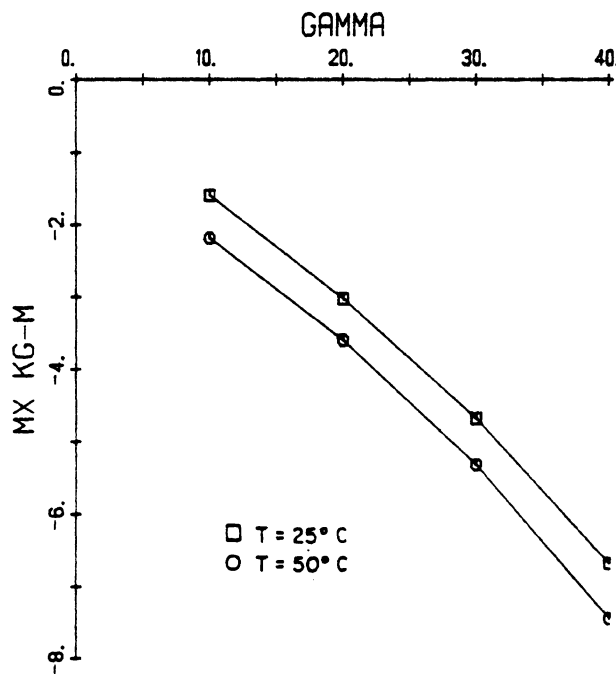
Figure 4.10. FY vs. Gamma for T = 25°, P = 32 psi and T = 50°, P = 34.25 psi.



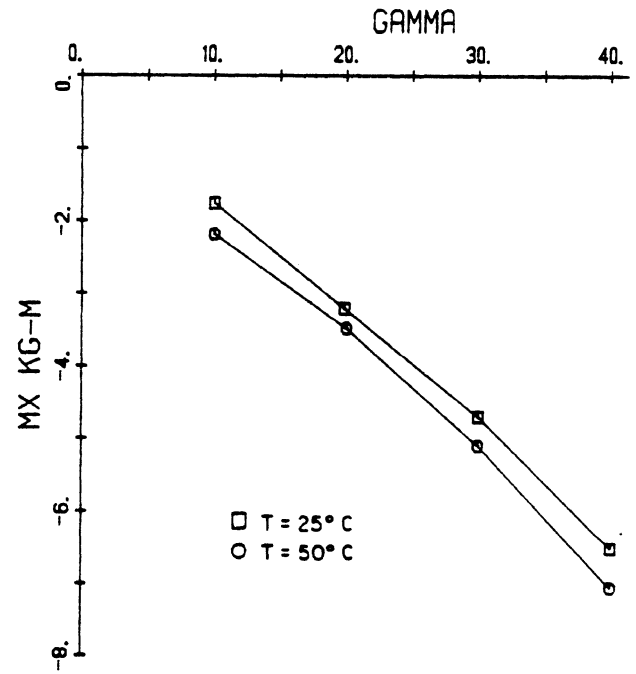
V=1



V=40



V=80



V=120

Figure 4.11. MX vs. Gamma for T = 25°, P = 32 psi and T = 50°, P = 34.25 psi.

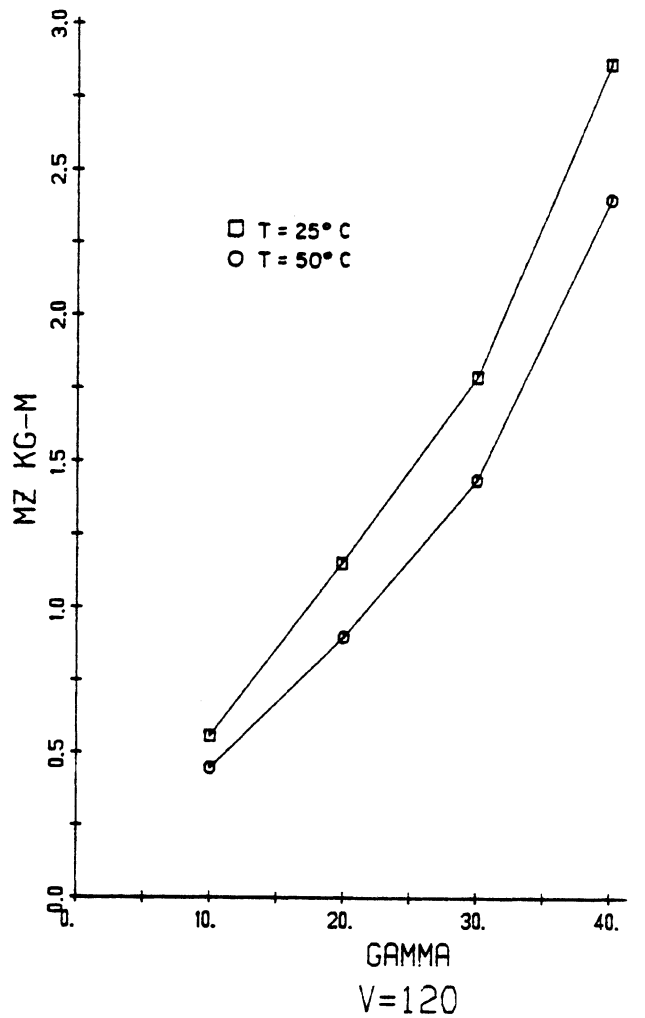
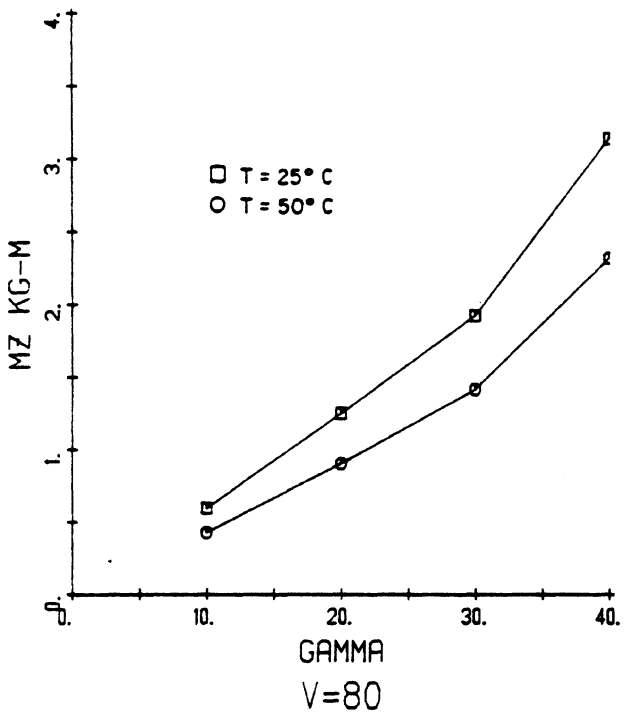
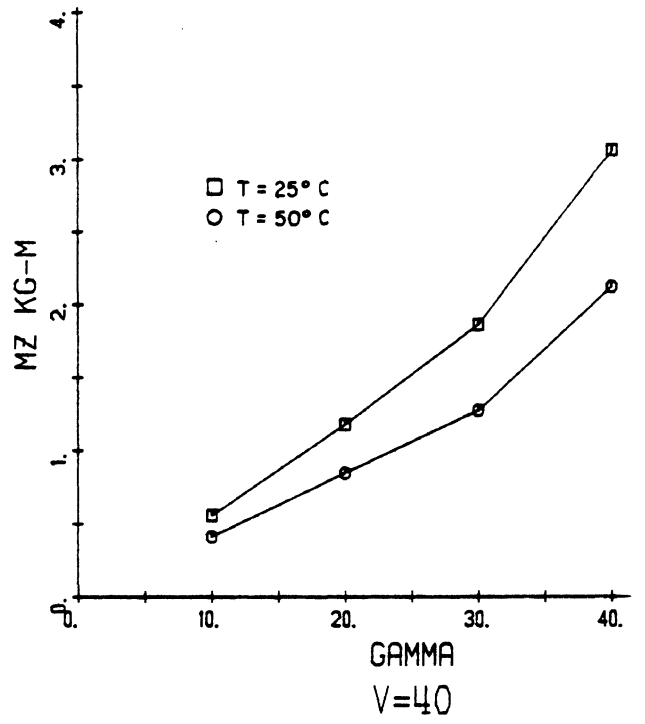
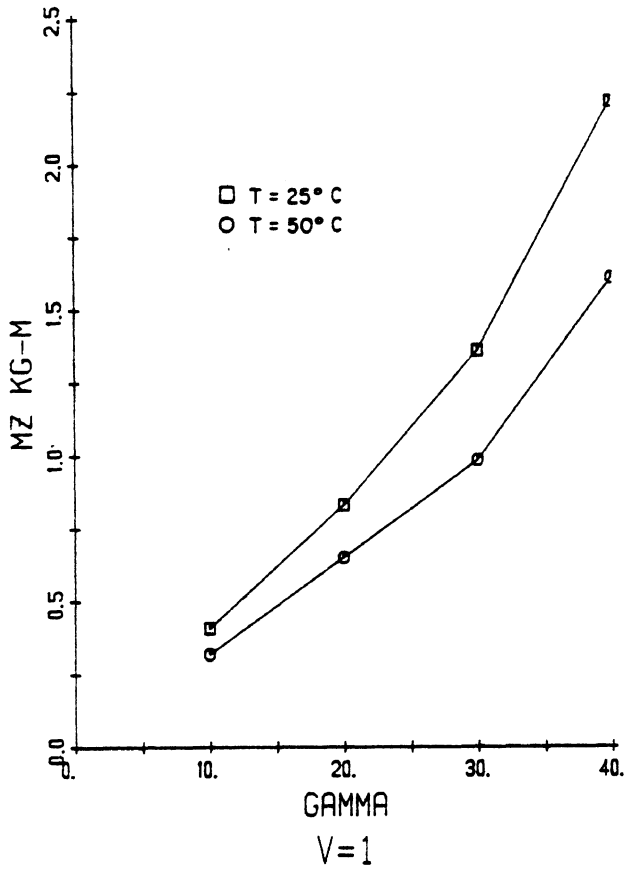
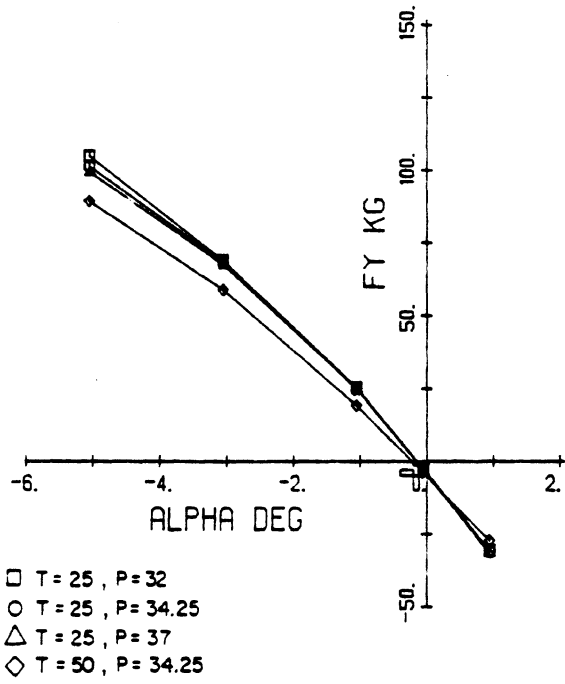
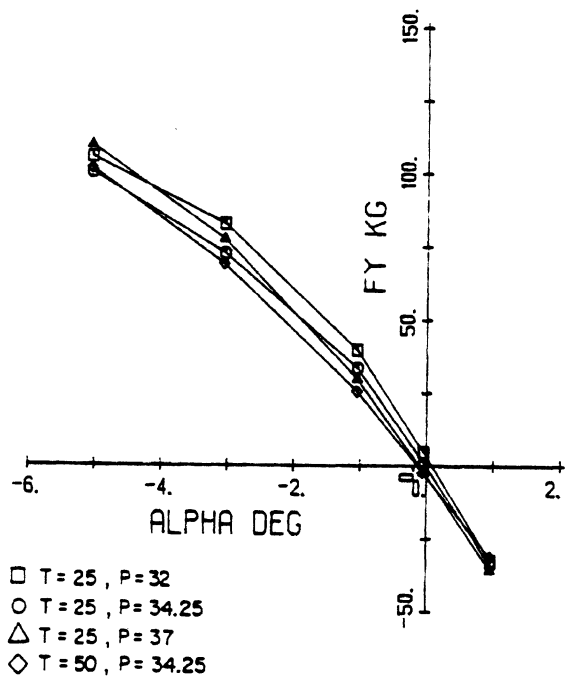


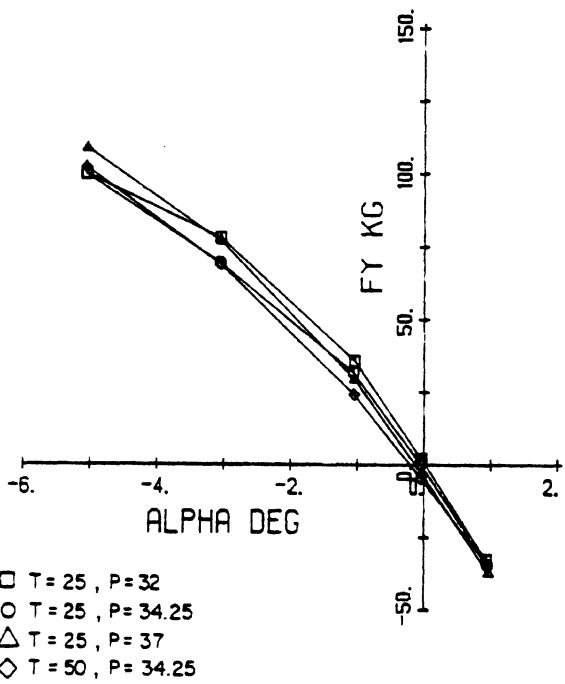
Figure 4.12. MZ vs. Gamma for T = 25°, P = 32 psi and T = 50°, P = 34.25 psi.



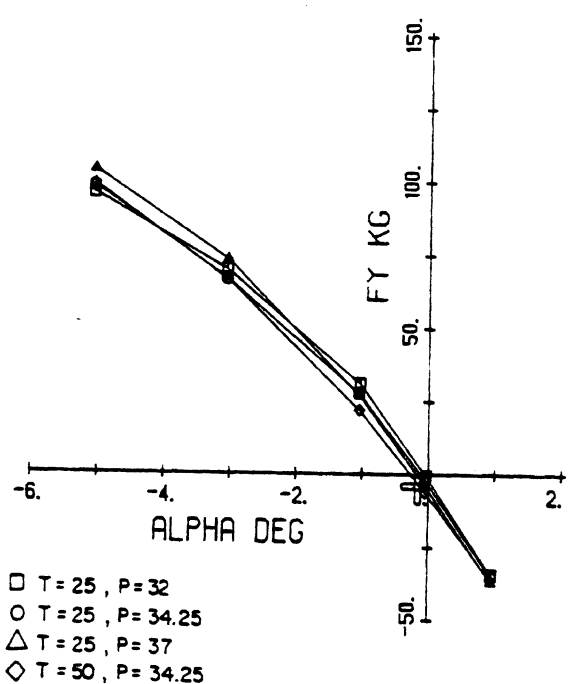
V=1



V=40



V=80



V=120

Figure 4.13. FY vs. Alpha for All Temperature and Pressure Conditions.

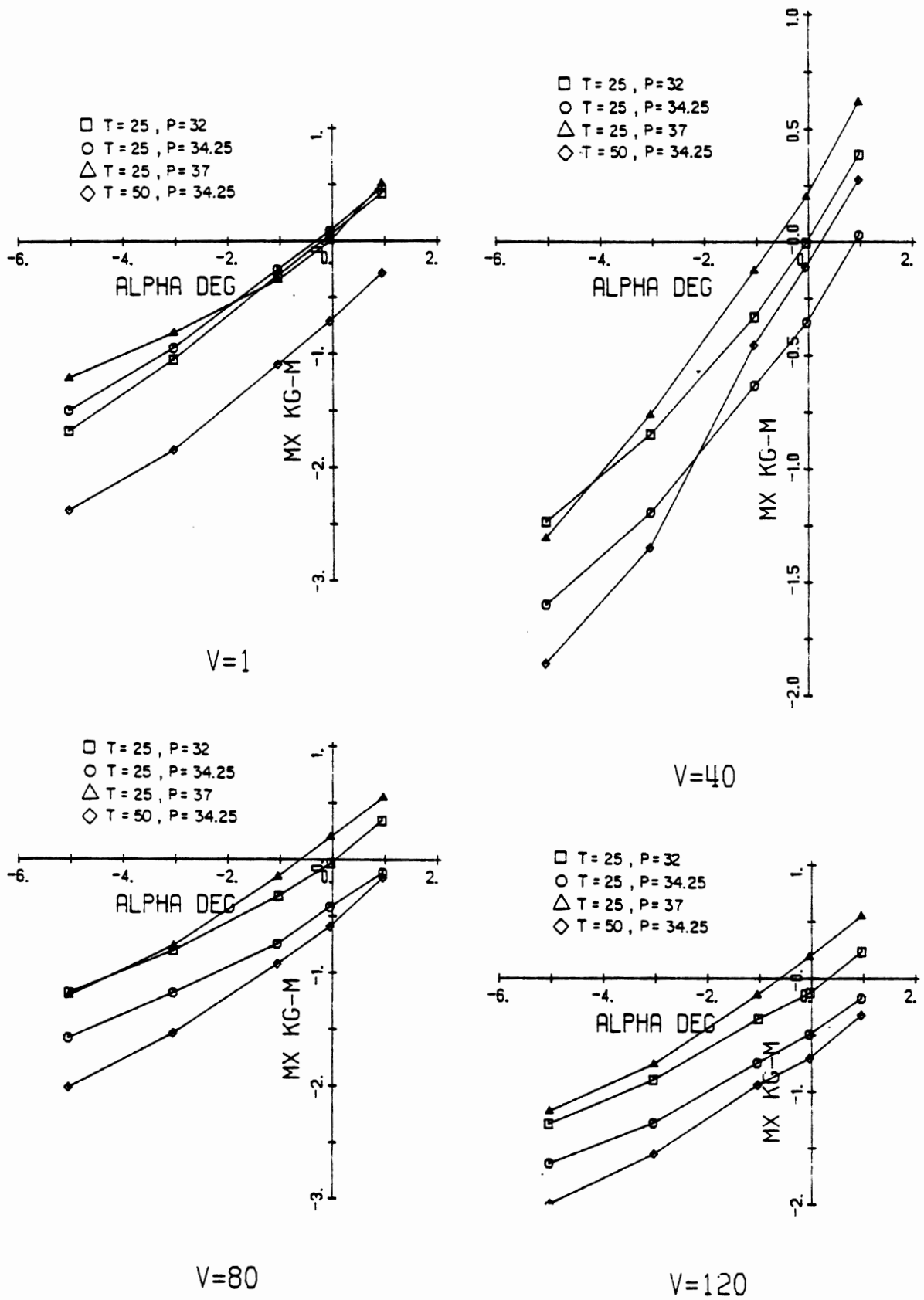
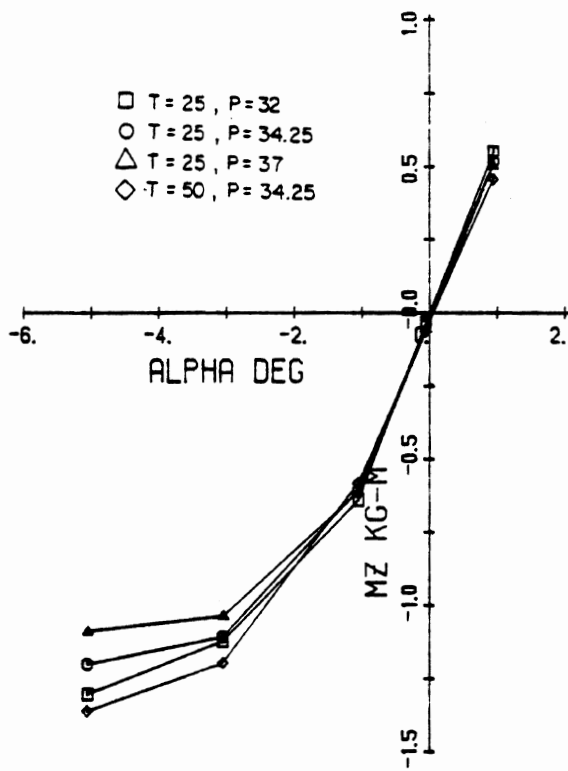
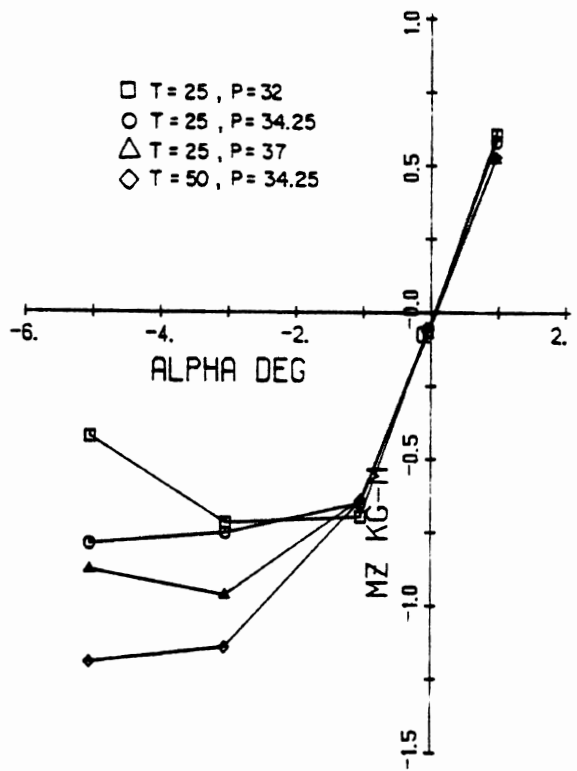


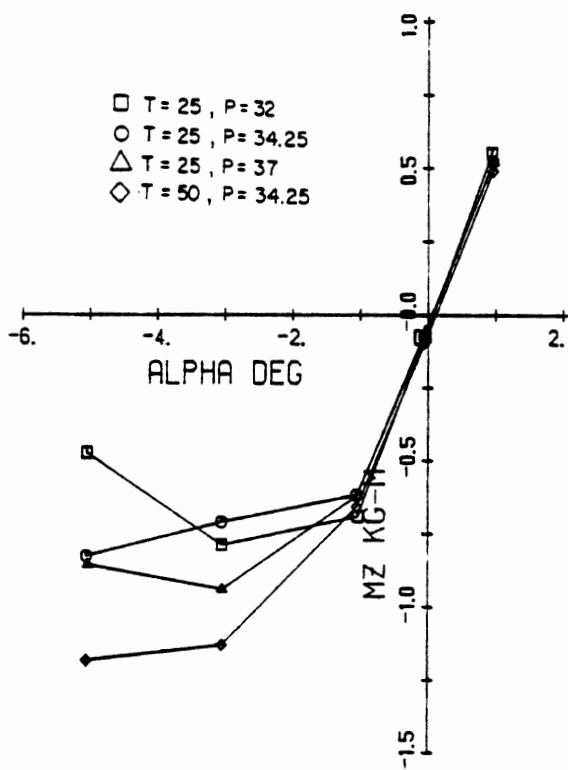
Figure 4.14. MX vs. Alpha for All Temperature and Pressure Conditions.



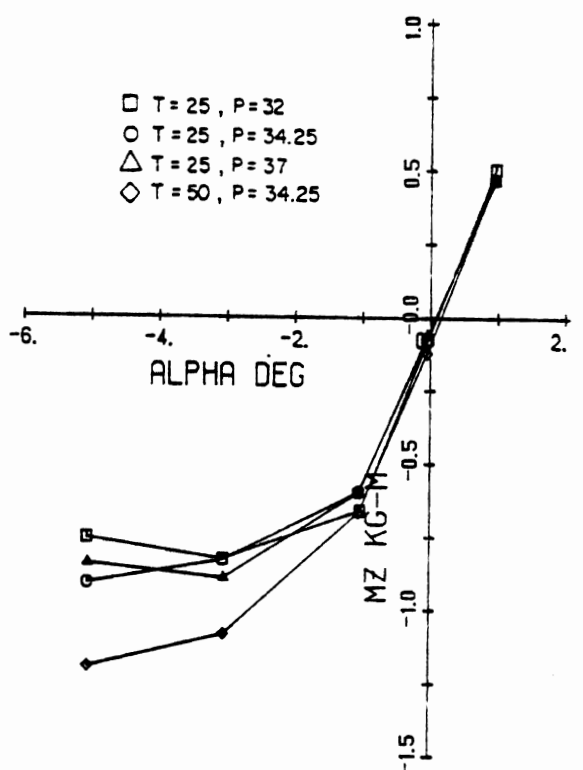
V=1



V=40



V=80



V=120

Figure 4.15. MZ vs. Alpha for All Temperature and Pressure Conditions.

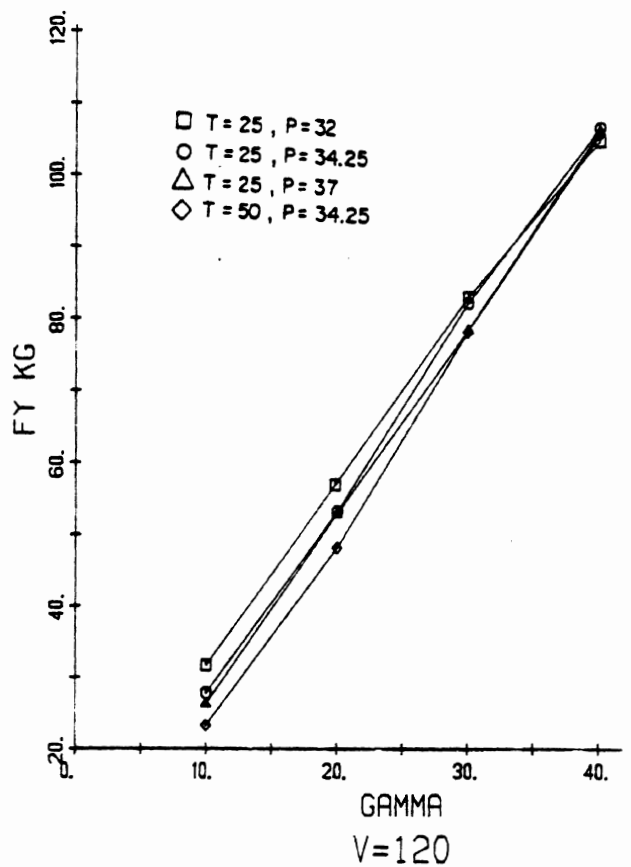
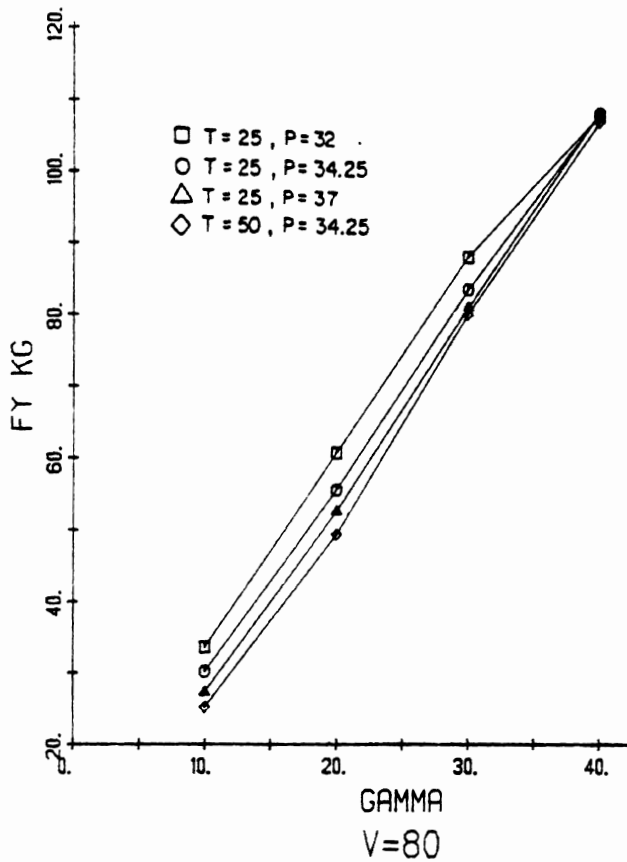
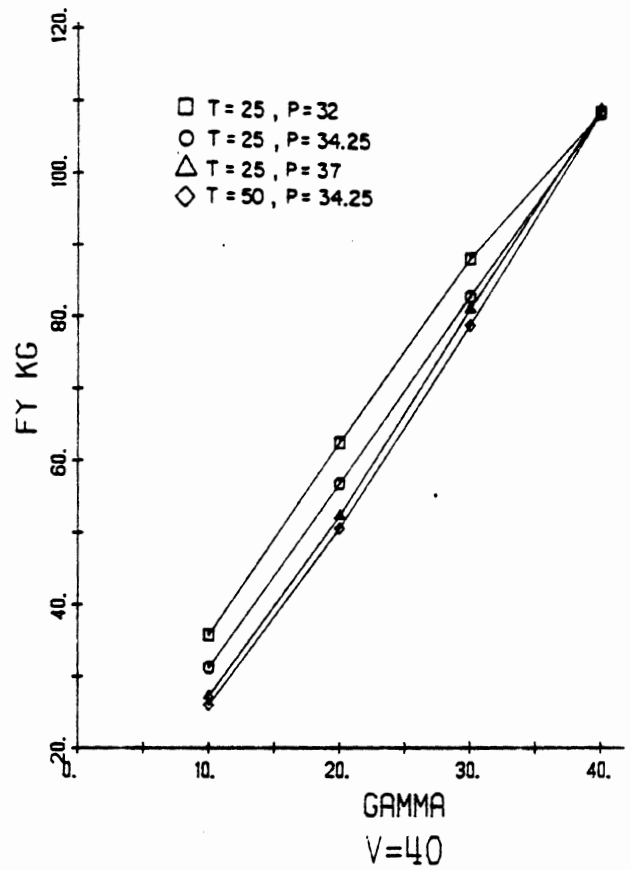
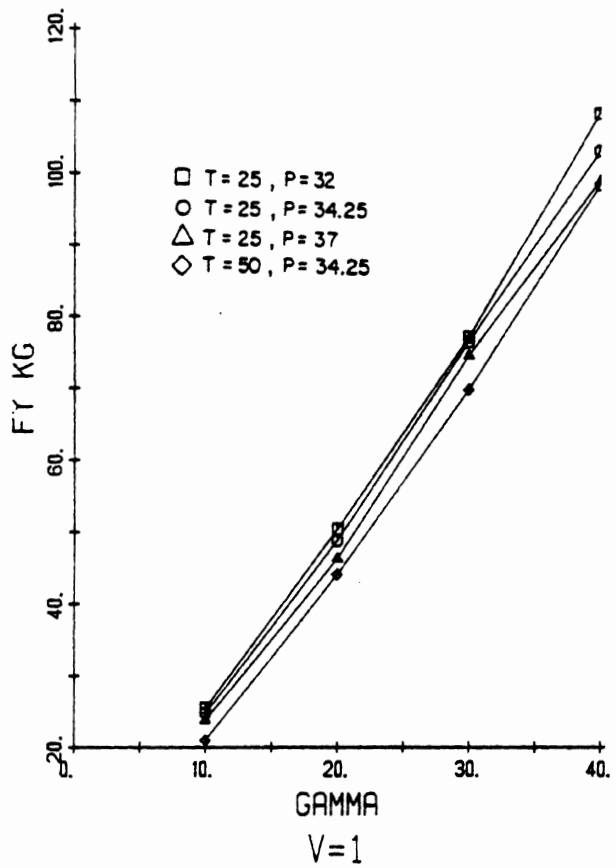


Figure 4.16. FY vs. Gamma for All Temperature and Pressure Conditions.

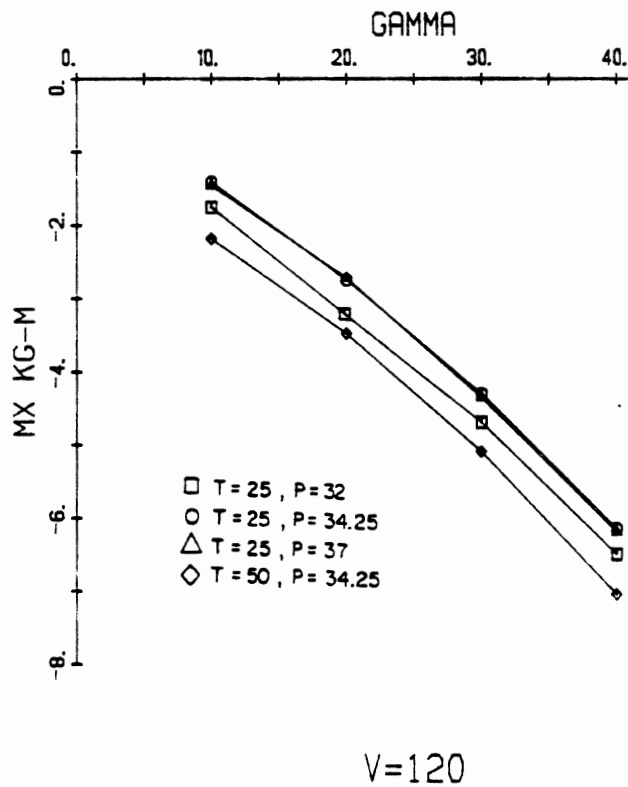
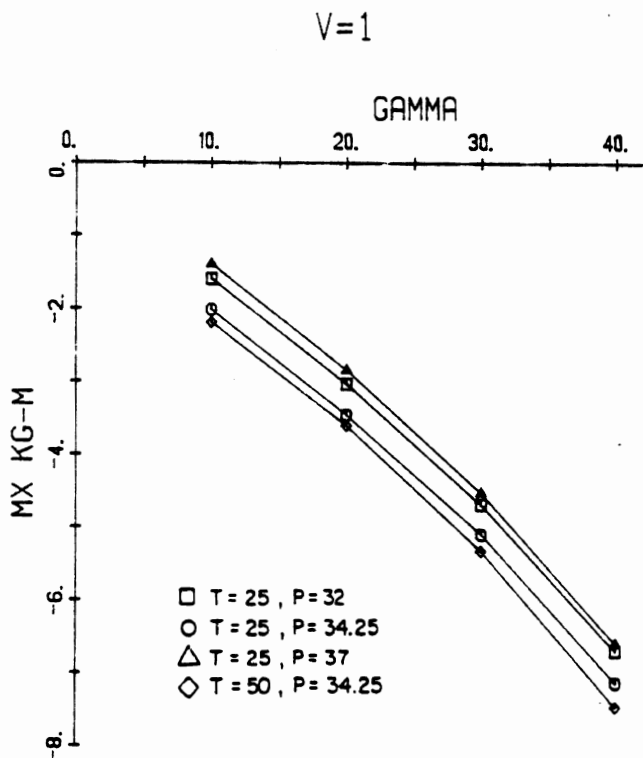
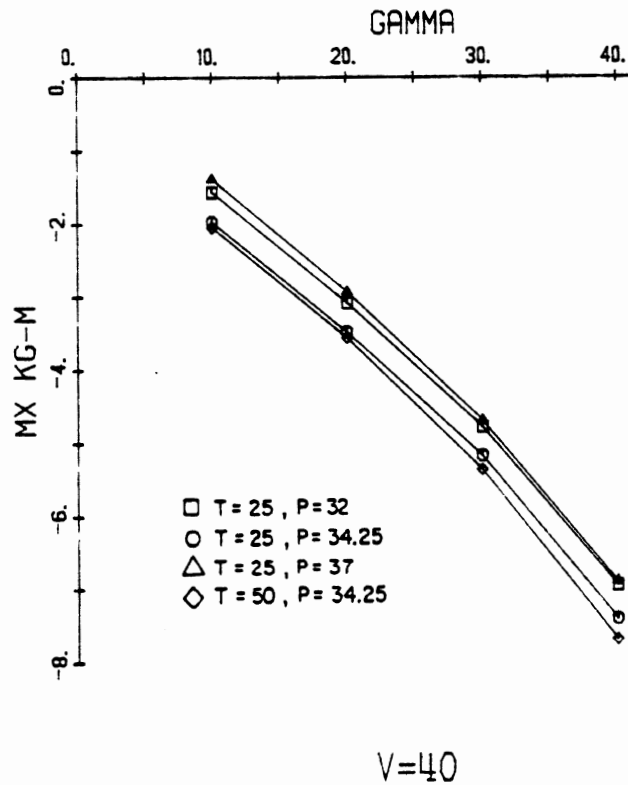
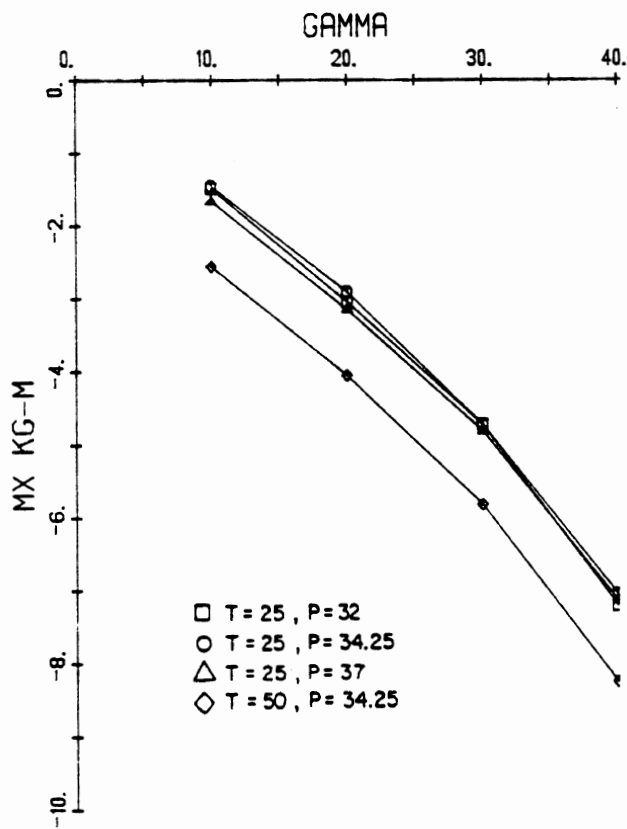


Figure 4.17. MX vs. Gamma for All Temperature and Pressure Conditions.

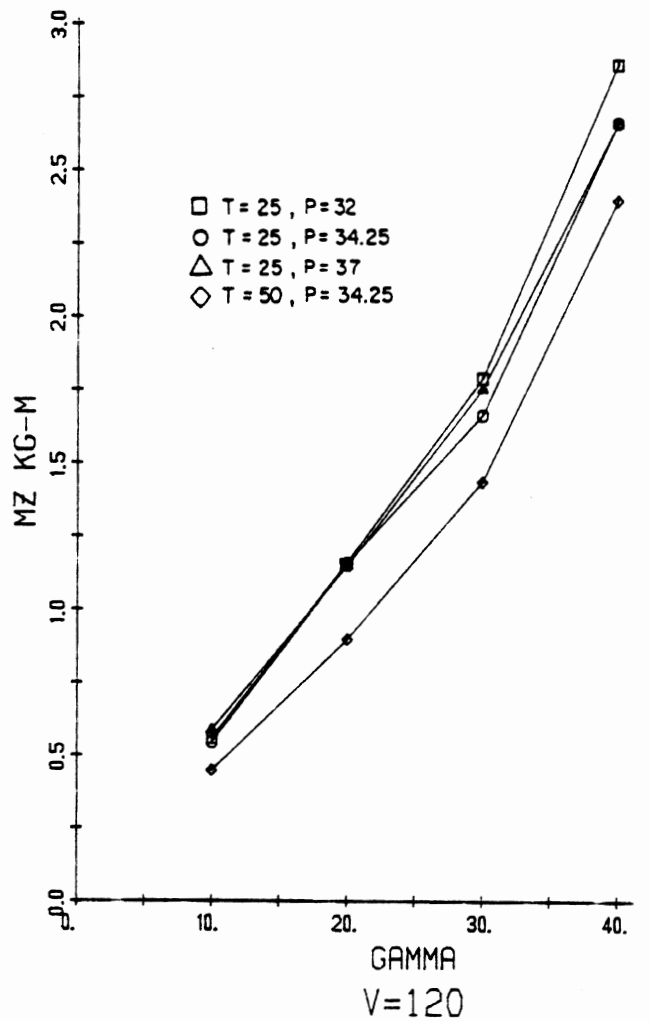
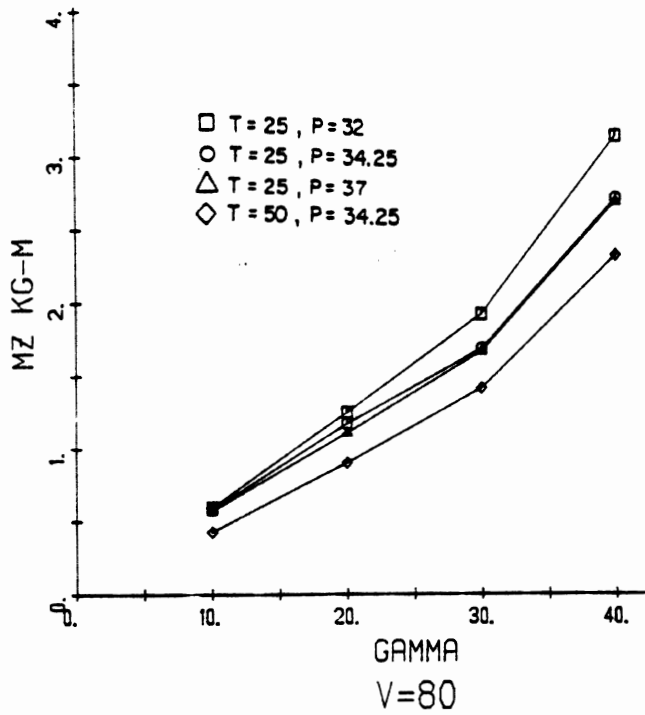
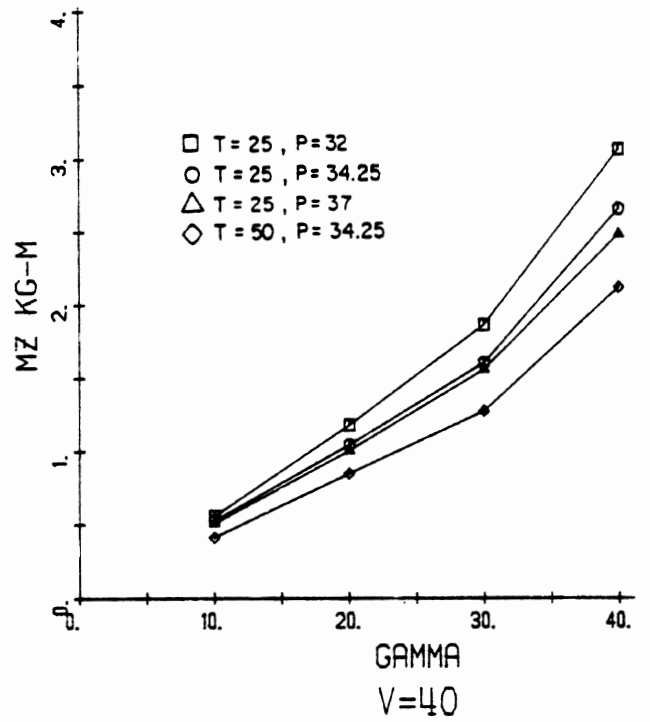
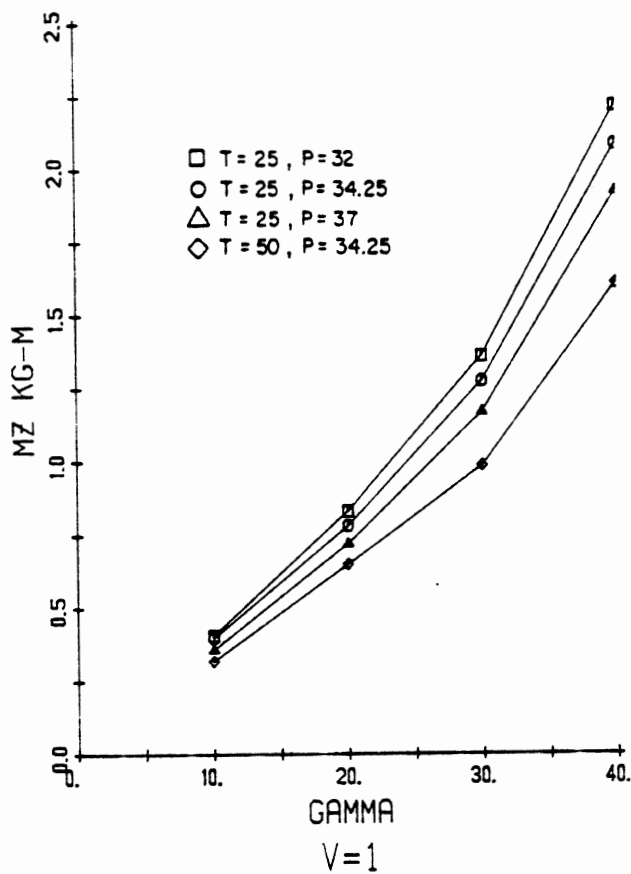


Figure 4.18. MZ vs. Gamma for All Temperature and Pressure Conditions.

APPENDIX A

PROCESSING RESULTS OF TEST 1 FOR TIRES T2 AND T1

Results Printed

Alpha - SS Slip Angle in degrees
Gamma - SS Inclination Angle in degrees
FX - SS Rolling Resistance in lbs
FY - SS Lateral Force in lbs
FZ - SS Vertical Load in lbs
MX - SS Overturning Moment in in-lbs
MY - SS Rolling Resistance Moment in in-lbs
MZ - SS Aligning Moment in in-lbs
FY - Relaxation L - Initial Guess of FY Relaxation Length
MX - Relaxation L - Initial Guess of MX Relaxation Length
MZ - Relaxation L - Initial Guess of MZ Relaxation Length
X(1) - First Curve Fit Parameter
REL L - Second Curve Fit Parameter = Relaxation Length
SUMSQ - Sum of the Squares

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14: 9:24

PROCESS DATE : 01-18-83 16:12:31

COMMENT: O,1

ALPHA = 0.965 GAMMA = 0.011 RHO = 0.0

STEADY STATE : FX = -7.42 FY = -69.27 FZ = -352.02 MX = 80.17 MY = 42.77 MZ = 49.02

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.709 \Rightarrow FY = -43.10

MX-RELAXATION L = 0.404 \Rightarrow MX = 32.98

MZ-RELAXATION L = 0.680 \Rightarrow MZ = 30.95

CURVE FIT PARAMETERS : X(1) = -73.179 REL L = 0.724 SUMSQ = 7.278

XDIST(I) : 0.024 0.046 0.086 0.140 0.203 0.278 0.367 0.466 0.574 0.693 0.810 0.935 1.059 1.185 1.296

RSLT(I) : 1.882 -0.684 -4.103 -8.553 -14.106 -19.619 -25.161 -31.073 -37.555 -42.217 -45.763 -49.030 -51.277 -54.048 -55.839

CALC(I) : 1.495 -0.612 -4.328 -8.969 -13.956 -19.416 -25.177 -30.813 -36.163 -41.182 -45.388 -49.158 -52.342 -55.037 -57.060

CURVE FIT PARAMETERS : X(1) = 30.736 REL L = 0.373 SUMSQ = 70.638

XDIST(I) : 0.024 0.046 0.086 0.140 0.203 0.278 0.367 0.466 0.574 0.693 0.810 0.935 1.059 1.185 1.296

RSLT(I) : 16.149 15.961 16.370 22.562 22.727 27.365 30.526 35.988 31.620 40.260 42.594 41.247 44.184 40.018 41.263

CALC(I) : 13.971 15.610 18.387 21.652 24.906 28.166 31.261 33.941 36.167 37.970 39.265 40.259 40.973 41.486 41.817

CURVE FIT PARAMETERS : X(1) = 61.302 REL L = 0.629 SUMSQ = 292.799

XDIST(I) : 0.024 0.046 0.086 0.140 0.203 0.278 0.367 0.466 0.574 0.693 0.810 0.935 1.059 1.185 1.296

RSLT(I) : -0.098 -5.960 -5.631 -3.928 -0.854 4.162 9.117 18.079 24.458 32.331 38.379 38.705 41.401 39.493 40.197

CALC(I) : -9.959 -7.943 -4.409 -0.039 4.601 9.609 14.804 19.787 24.417 28.659 32.126 35.158 37.652 39.709 41.216

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14:11:17

PROCESS DATE : 01-18-83 16:12:59

COMMENT: O,0

ALPHA = -0.045 GAMMA = 0.007 RHO = 0.0

STEADY STATE : FX = -7.00 FY = 1.79 FZ = -351.77 MX = 75.13 MY = 8.05 MZ = -5.68

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.161 \Rightarrow FY = 2.11

MX-RELAXATION L = 0.664 \Rightarrow MX = 6.66

MZ-RELAXATION L = 0.065 \Rightarrow MZ = -5.50

CURVE FIT PARAMETERS : X(1) = -1.864 REL L = 0.169 SUMSQ = 11.130

XDIST(I) : 0.025 0.059 0.114 0.178 0.249 0.332 0.422 0.518 0.623 0.736 0.861 1.000 1.146 1.299 1.462

RSLT(I) : 2.656 3.464 4.293 0.934 2.699 2.666 2.011 1.041 0.487 0.529 1.306 1.702 2.371 2.367 2.051

CALC(I) : 3.392 3.101 2.738 2.439 2.213 2.049 1.941 1.875 1.835 1.812 1.800 1.794 1.791 1.790 1.789

CURVE FIT PARAMETERS : X(1) = 8.001 REL L = 0.627 SUMSQ = 251.539

XDIST(I) : 0.025 0.059 0.114 0.178 0.249 0.332 0.422 0.518 0.623 0.736 0.861 1.000 1.146 1.299 1.462

RSLT(I) : 4.269 0.228 4.269 3.799 0.812 -2.121 -4.163 4.856 3.230 1.644 8.491 9.364 14.209 11.300 11.488

CALC(I) : 0.365 0.768 1.375 2.020 2.673 3.336 3.967 4.547 5.086 5.574 6.021 6.423 6.762 7.041 7.271

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14:13: 9

PROCESS DATE : 01-18-83 16:14:23

COMMENT: O,-1

ALPHA = -1.015 GAMMA = 0.010 RHO = 0.0

STEADY STATE : FX = -6.39 FY = 69.95 FZ = -351.57 MX = 67.72 MY = -16.03 MZ = -58.65

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.699 @ FY = 45.48
 MX-RELAXATION L = 0.463 @ MX = -8.54
 MZ-RELAXATION L = 0.681 @ MZ = -39.28

CURVE FIT PARAMETERS : X(1) = 67.442 REL L = 0.659 SUMSQ = 15.780
 XDIST(I) : 0.024 0.045 0.080 0.128 0.187 0.256 0.336 0.428 0.528 0.643 0.760 0.897 1.035 1.172 1.308
 RSLT(I) : 3.439 6.188 9.745 15.184 19.813 25.020 31.158 36.468 40.286 43.108 47.959 51.892 55.474 57.710 59.903
 CALC(I) : 4.945 7.005 10.183 14.410 19.135 24.218 29.458 34.725 39.666 44.536 48.662 52.656 55.923 58.551 60.686

CURVE FIT PARAMETERS : X(1) = -20.511 REL L = 0.685 SUMSQ = 197.341
 XDIST(I) : 0.024 0.045 0.080 0.128 0.187 0.256 0.336 0.428 0.528 0.643 0.760 0.897 1.035 1.172 1.308
 RSLT(I) : 4.323 1.258 -4.168 6.776 2.879 -5.277 -1.603 -0.766 -6.327 -12.601 -7.571 -9.635 -7.750 -16.437 -17.373
 CALC(I) : 3.773 3.168 2.234 0.989 -0.407 -1.914 -3.474 -5.050 -6.537 -8.010 -9.267 -10.492 -11.502 -12.322 -12.992

CURVE FIT PARAMETERS : X(1) = -56.055 REL L = 0.653 SUMSQ = 8.881
 XDIST(I) : 0.024 0.045 0.080 0.128 0.187 0.256 0.336 0.428 0.528 0.643 0.760 0.897 1.035 1.172 1.308
 RSLT(I) : -6.011 -5.955 -8.244 -12.176 -16.034 -21.380 -24.912 -29.896 -34.380 -36.534 -41.473 -43.396 -46.680 -50.259 -52.108
 CALC(I) : -4.631 -6.358 -9.020 -12.559 -16.513 -20.762 -25.138 -29.532 -33.649 -37.700 -41.128 -44.439 -47.144 -49.316 -51.076

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 14:14:43
 PROCESS DATE : 01-18-83 16:14:44
 COMMENT: 0,-3
 ALPHA = -3.031 GAMMA = 0.008 RHO = 0.0
 STEADY STATE : FX = -7.21 FY = 169.20 FZ = -351.42 MX = -67.93 MY = 77.55 MZ = -91.27
 ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.474 @ FY = 110.48
 MX-RELAXATION L = 0.637 @ MX = -38.58
 MZ-RELAXATION L = 0.313 @ MZ = -58.82

CURVE FIT PARAMETERS : X(1) = 168.324 REL L = 0.441 SUMSQ = 27.954
 XDIST(I) : 0.024 0.040 0.071 0.112 0.165 0.228 0.299 0.384 0.479 0.585 0.710 0.834 0.977 1.129 1.288
 RSLT(I) : 9.570 17.134 26.650 38.993 52.726 67.514 82.384 96.875 111.064 124.295 136.250 146.103 152.744 157.811 161.750
 CALC(I) : 9.937 15.378 25.793 38.638 53.460 68.704 83.747 98.775 112.311 124.497 135.540 143.791 150.823 156.172 160.126

CURVE FIT PARAMETERS : X(1) = -85.093 REL L = 0.630 SUMSQ = 110.973
 XDIST(I) : 0.024 0.040 0.071 0.112 0.165 0.228 0.299 0.384 0.479 0.585 0.710 0.834 0.977 1.129 1.288
 RSLT(I) : 11.855 17.398 5.412 1.989 -2.166 -7.286 -15.792 -21.884 -28.672 -33.105 -42.033 -44.121 -53.533 -55.435 -50.335
 CALC(I) : 13.926 11.957 8.128 3.290 -2.475 -8.640 -15.006 -21.712 -28.130 -34.314 -40.373 -45.300 -49.895 -53.757 -56.929

CURVE FIT PARAMETERS : X(1) = -100.138 REL L = 0.302 SUMSQ = 193.447
 XDIST(I) : 0.024 0.040 0.071 0.112 0.165 0.228 0.299 0.384 0.479 0.585 0.710 0.834 0.977 1.129 1.288
 RSLT(I) : -3.075 -6.600 -11.120 -16.292 -27.694 -40.425 -55.621 -66.326 -77.276 -80.498 -81.596 -83.678 -84.091 -86.660 -90.306
 CALC(I) : 1.105 -3.464 -12.002 -22.145 -33.290 -44.086 -54.027 -63.184 -70.699 -76.798 -81.703 -84.921 -87.312 -88.872 -89.854

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 14:16:41
 PROCESS DATE : 01-18-83 16:15:19
 COMMENT: 0,-5
 ALPHA = -5.027 GAMMA = 0.004 RHO = 0.0
 STEADY STATE : FX = -7.51 FY = 222.70 FZ = -351.37 MX = -98.99 MY = 81.32 MZ = -64.23
 ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.387 @ FY = 146.26
 MX-RELAXATION L = 0.453 @ MX = -60.72
 MZ-RELAXATION L = 0.216 @ MZ = -44.43

CURVE FIT PARAMETERS : X(1) = 220.373 REL L = 0.366 SUMSQ = 13.650
 XDIST(I) : 0.024 0.042 0.079 0.122 0.177 0.234 0.302 0.376 0.452 0.536 0.621 0.715 0.812 0.914 1.023
 RSLT(I) : 14.912 28.347 45.813 64.919 84.942 106.708 125.898 144.226 158.531 171.712 183.781 192.257 198.897 204.252 208.263
 CALC(I) : 16.422 26.427 45.138 64.741 86.760 106.626 126.266 143.993 158.768 171.809 182.397 191.497 198.809 204.626 209.259

CURVE FIT PARAMETERS : X(1) = -114.124 REL L = 0.405 SUMSQ = 196.771
 XDIST(I) : 0.024 0.042 0.079 0.122 0.177 0.234 0.302 0.376 0.452 0.536 0.621 0.715 0.812 0.914 1.023
 RSLT(I) : 5.020 2.985 -2.931 -18.191 -24.281 -29.477 -42.011 -50.204 -60.626 -67.650 -72.650 -82.729 -91.810 -90.928 -93.637
 CALC(I) : 8.531 3.814 -5.071 -14.479 -25.185 -34.990 -44.846 -53.913 -61.623 -68.574 -74.346 -79.427 -83.614 -87.035 -89.838

CURVE FIT PARAMETERS : X(1) = -53.821 REL L = 0.214 SUMSQ = 1736.595
 XDIST(I) : 0.024 0.042 0.079 0.122 0.177 0.234 0.302 0.376 0.452 0.536 0.621 0.715 0.812 0.914 1.023
 RSLT(I) : -10.407 -9.251 -15.130 -24.065 -36.161 -50.053 -59.527 -70.214 -70.415 -71.851 -78.198 -77.103 -76.062 -68.723 -65.763
 CALC(I) : -16.148 -20.060 -27.003 -33.740 -40.632 -46.209 -51.096 -54.944 -57.717 -59.817 -61.266 -62.314 -63.015 -63.474 -63.773

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 14:18:22
 PROCESS DATE : 01-18-83 16:15:42
 COMMENT: 10,1
 ALPHA = 0.960 GAMMA = 10.013 RHO = 0.0
 STEADY STATE : FX = -8.38 FY = -1.84 FZ = -351.19 MX = -101.63 MY = 76.04 MZ = 97.90
 ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.691 \oplus FY = 21.15
 MX-RELAXATION L = 0.196 \oplus MX = -108.08
 MZ-RELAXATION L = 0.376 \oplus MZ = 69.96

CURVE FIT PARAMETERS : X(1) = -63.841 REL L = 0.707 SUMSQ = 11.514
 XDIST(I) : 0.024 0.040 0.071 0.112 0.165 0.227 0.299 0.382 0.476 0.585 0.706 0.834 0.979 1.134 1.295
 RSLT(I) : 60.661 59.468 56.107 51.602 47.334 43.364 40.584 36.482 31.214 25.234 20.814 17.072 15.126 11.571 9.072
 CALC(I) : 59.831 58.508 55.924 52.617 48.737 44.472 39.969 35.341 30.705 26.061 21.684 17.776 14.142 11.004 8.382

CURVE FIT PARAMETERS : X(1) = 16.120 REL L = 2.138 SUMSQ = 33.922
 XDIST(I) : 0.024 0.040 0.071 0.112 0.165 0.227 0.299 0.382 0.476 0.585 0.706 0.834 0.979 1.134 1.295
 RSLT(I) : -119.159 -117.886 -119.133 -115.283 -114.580 -115.356 -116.476 -116.197 -113.315 -114.877 -110.499 -111.161 -111.418 -113.449 -111.495
 CALC(I) : -117.566 -117.452 -117.225 -116.923 -116.554 -116.125 -115.643 -115.110 -114.529 -113.888 -113.216 -112.540 -111.825 -111.114 -110.424

CURVE FIT PARAMETERS : X(1) = 70.645 REL L = 0.460 SUMSQ = 391.797
 XDIST(I) : 0.024 0.040 0.071 0.112 0.165 0.227 0.299 0.382 0.476 0.585 0.706 0.834 0.979 1.134 1.295
 RSLT(I) : 21.938 28.207 36.181 48.840 56.324 61.690 65.200 70.657 69.209 75.248 80.196 83.728 86.172 85.063 89.686
 CALC(I) : 30.910 33.108 37.326 42.577 48.523 54.781 61.059 67.142 72.839 78.123 82.688 86.397 89.507 91.903 93.680

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 14:19:58
 PROCESS DATE : 01-18-83 16:16:06
 COMMENT: 10,0
 ALPHA = -0.039 GAMMA = 10.012 RHO = 0.0
 STEADY STATE : FX = -7.06 FY = 68.74 FZ = -351.05 MX = -123.72 MY = 70.20 MZ = 39.51
 ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.755 \oplus FY = 64.02
 MX-RELAXATION L = 0.024 \oplus MX = -124.71
 MZ-RELAXATION L = 0.060 \oplus MZ = 33.91

CURVE FIT PARAMETERS : X(1) = 12.945 REL L = 0.782 SUMSQ = 16.169
 XDIST(I) : 0.024 0.040 0.071 0.112 0.164 0.224 0.296 0.379 0.473 0.580 0.697 0.836 0.983 1.147 1.324
 RSLT(I) : 55.911 56.721 57.787 57.942 57.431 57.349 58.761 62.456 62.977 61.831 63.163 65.128 66.292 65.306 64.702
 CALC(I) : 56.193 56.437 56.914 57.527 58.245 59.020 59.876 60.763 61.668 62.577 63.431 64.292 65.054 65.752 66.357

CURVE FIT PARAMETERS : X(1) = 8.552 REL L = 0.204 SUMSQ = 243.587
XDIST(I): 0.024 0.040 0.071 0.112 0.164 0.224 0.296 0.379 0.473 0.580 0.697 0.836 0.983 1.147 1.324
RSLT(I) : -126.424-130.699-132.198-133.109-129.449-125.709-130.056-118.543-121.926-123.560-122.267-118.385-122.712-121.608-114.656
CALC(I) : -131.304-130.754-129.763-128.646-127.541-126.566-125.717-125.051-124.558-124.213-123.997-123.859-123.786-123.748-123.730

CURVE FIT PARAMETERS : X(1) = 34.842 REL L = 0.033 SUMSQ = 786.021
XDIST(I): 0.024 0.040 0.071 0.112 0.164 0.224 0.296 0.379 0.473 0.580 0.697 0.836 0.983 1.147 1.324
RSLT(I) : 24.268 26.389 36.238 38.748 43.474 49.895 51.246 49.473 50.452 48.173 47.621 46.432 44.326 47.873 42.928
CALC(I) : 22.895 29.075 35.431 38.358 39.273 39.475 39.509 39.513 39.514 39.514 39.514 39.514 39.514 39.514 39.514

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14:21:30

PROCESS DATE : 01-18-83 16:16:28

COMMENT: 10,-1

ALPHA = -1.039 GAMMA = 10.010 RHO = 0.0

STEADY STATE : FX = -5.88 FY = 134.61 FZ = -351.11 MX = -154.43 MY = 65.82 MZ = -18.49

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.712 @ FY = 108.12

MX-RELAXATION L = 0.740 @ MX = -146.49

MZ-RELAXATION L = 1.311 @ MZ = -4.68

CURVE FIT PARAMETERS : X(1) = 75.146 REL L = 0.695 SUMSQ = 4.253
XDIST(I): 0.024 0.043 0.075 0.117 0.171 0.233 0.307 0.391 0.487 0.595 0.711 0.840 0.983 1.135 1.303
RSLT(I) : 62.600 64.347 67.273 70.076 75.309 80.640 86.879 92.439 96.636 102.055 108.072 112.612 116.633 119.545 123.358
CALC(I) : 62.038 63.932 67.117 71.116 75.860 80.905 86.332 91.819 97.312 102.697 107.594 112.173 116.354 119.956 123.104

CURVE FIT PARAMETERS : X(1) = -30.029 REL L = 0.665 SUMSQ = 149.984
XDIST(I): 0.024 0.043 0.075 0.117 0.171 0.233 0.307 0.391 0.487 0.595 0.711 0.840 0.983 1.135 1.303
RSLT(I) : -132.842-127.515-122.939-128.455-124.251-132.336-137.382-139.983-138.203-144.036-142.699-147.078-148.682-148.353-151.767
CALC(I) : -125.468-126.256-127.581-129.239-131.200-133.279-135.504-137.744-139.973-142.144-144.105-145.924-147.570-148.975-150.191

CURVE FIT PARAMETERS : X(1) = -51.187 REL L = 1.996 SUMSQ = 1208.156
XDIST(I): 0.024 0.043 0.075 0.117 0.171 0.233 0.307 0.391 0.487 0.595 0.711 0.840 0.983 1.135 1.303
RSLT(I) : 19.047 27.304 32.830 37.335 40.307 34.787 32.203 25.652 20.349 14.505 9.601 3.877 0.707 -3.326 -4.436
CALC(I) : 32.080 31.616 30.818 29.781 28.494 27.049 25.391 23.587 21.622 19.503 17.363 15.119 12.792 10.488 8.150

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14:23:29

PROCESS DATE : 01-18-83 16:16:48

COMMENT: 10,-3

ALPHA = -3.039 GAMMA = 10.011 RHO = 0.0

STEADY STATE : FX = -6.09 FY = 214.70 FZ = -351.12 MX = -193.25 MY = 71.48 MZ = -36.30

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.419 @ FY = 160.63

MX-RELAXATION L = 0.588 @ MX = -163.72

MZ-RELAXATION L = 0.368 @ MZ = -11.66

CURVE FIT PARAMETERS : X(1) = 157.457 REL L = 0.395 SUMSQ = 79.798
XDIST(I): 0.026 0.086 0.189 0.324 0.469 0.622 0.781 0.947 1.113 1.284 1.455 1.632 1.812 1.991 2.176
RSLT(I) : 67.723 87.722 116.227 144.774 166.718 183.855 194.920 200.887 205.004 207.420 209.506 210.327 208.937 209.063 208.984
CALC(I) : 67.326 87.950 116.996 145.370 166.581 182.006 192.835 200.344 205.262 208.580 210.729 212.162 213.090 213.678 214.059

CURVE FIT PARAMETERS : X(1) = -76.316 REL L = 0.693 SUMSQ = 253.091
XDIST(I): 0.026 0.086 0.189 0.324 0.469 0.622 0.781 0.947 1.113 1.284 1.455 1.632 1.812 1.991 2.176
RSLT(I) : -112.996-125.623-136.654-150.472-159.436-167.054-173.020-171.645-171.443-175.131-181.560-182.459-186.574-186.500-189.172
CALC(I) : -119.756-125.811-135.114-145.444-154.432-162.110-168.493-173.773-177.916-181.271-183.888-185.997-187.653-188.929-189.936

CURVE FIT PARAMETERS : X(1) = -83.721 REL L = 0.361 SUMSQ = 391.950
 XDIST(I) : 0.026 0.086 0.189 0.324 0.469 0.622 0.781 0.947 1.113 1.284 1.455 1.632 1.812 1.991 2.176
 RSLT(I) : 30.681 36.839 24.918 -1.808 -17.189 -24.992 -32.753 -30.316 -33.114 -36.148 -34.405 -35.922 -34.638 -34.550 -39.972
 CALC(J) : 41.570 29.727 13.362 -2.183 -13.422 -21.313 -26.651 -30.212 -32.453 -33.906 -34.810 -35.388 -35.746 -35.964 -36.099

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 14:25: 6
 PROCESS DATE : 01-18-83 16:17:04
 COMMENT: 10,-5
 ALPHA = -5.038 GAMMA = 10.012 RHO = 0.0
 STEADY STATE : FX = -6.56 FY = 253.18 FZ = -351.16 MX = -219.90 MY = 73.42 MZ = -14.52
 ESTIMATE FROM 1.-EXP(-1)

F/-RELAXATION L = 0.301 @ FY = 186.11
 MX-RELAXATION L = 0.427 @ MX = -185.18
 MZ-RELAXATION L = 0.239 @ MZ = -0.58

CURVE FIT PARAMETERS : X(1) = 203.034 REL L = 0.265 SUMSQ = 325.543
 XDIST(I) : 0.024 0.065 0.154 0.274 0.400 0.536 0.668 0.798 0.927 1.059 1.191 1.321 1.459 1.598 1.741
 RSLT(I) : 70.844 94.575 134.844 178.083 208.585 226.958 237.863 246.038 251.387 253.280 254.927 257.918 259.312 261.333 260.984
 CALC(J) : 67.857 94.136 139.628 181.163 208.298 226.405 236.897 243.200 247.065 249.469 250.929 251.805 252.364 252.699 252.902

CURVE FIT PARAMETERS : X(1) = -99.462 REL L = 0.438 SUMSQ = 188.090
 XDIST(I) : 0.024 0.065 0.154 0.274 0.400 0.536 0.668 0.798 0.927 1.059 1.191 1.321 1.459 1.598 1.741
 RSLT(I) : -125.506 -130.468 -152.060 -167.174 -183.268 -193.390 -200.423 -204.220 -204.642 -213.038 -209.607 -208.807 -213.689 -212.122 -211.311
 CALC(J) : -125.774 -134.077 -149.877 -166.711 -179.923 -190.636 -198.228 -203.774 -207.901 -211.024 -213.335 -215.022 -216.338 -217.306 -218.029

CURVE FIT PARAMETERS : X(1) = -55.438 REL L = 0.172 SUMSQ = 1154.771
 XDIST(I) : 0.024 0.065 0.154 0.274 0.400 0.536 0.668 0.798 0.927 1.059 1.191 1.321 1.459 1.598 1.741
 RSLT(I) : 23.383 30.894 24.620 -7.562 -22.232 -22.712 -16.646 -17.027 -20.353 -22.261 -18.770 -23.665 -18.794 -9.947 -7.993
 CALC(J) : 33.669 23.587 8.198 -3.228 -9.057 -12.050 -13.370 -13.979 -14.267 -14.404 -14.468 -14.497 -14.512 -14.518 -14.521

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 14:26:37
 PROCESS DATE : 01-18-83 16:17:36
 COMMENT: 20,1
 ALPHA = 0.958 GAMMA = 20.008 RHO = 0.0
 STEADY STATE : FX = -10.36 FY = 56.56 FZ = -351.55 MX = -238.74 MY = 70.64 MZ = 147.22
 ESTIMATE FROM 1.-EXP(-1)

F/-RELAXATION L = 0.645 @ FY = 75.49
 MX-RELAXATION L = 1.663 @ MX = -246.87
 MZ-RELAXATION L = 0.238 @ MZ = 113.28

CURVE FIT PARAMETERS : X(1) = -55.039 REL L = 0.614 SUMSQ = 6.305
 XDIST(I) : 0.025 0.067 0.132 0.208 0.294 0.382 0.473 0.574 0.684 0.798 0.927 1.066 1.216 1.374 1.547
 RSLT(I) : 108.000 107.202 101.259 96.155 90.705 86.607 80.980 77.856 74.290 71.914 68.565 66.705 64.123 62.099 61.583
 CALC(J) : 109.423 105.890 100.962 95.816 90.652 86.127 82.037 78.169 74.630 71.579 68.719 66.266 64.154 62.433 60.990

CURVE FIT PARAMETERS : X(1) = 19.380 REL L = 2.227 SUMSQ = 100.938
 XDIST(I) : 0.025 0.067 0.132 0.208 0.294 0.382 0.473 0.574 0.684 0.798 0.927 1.066 1.216 1.374 1.547
 RSLT(I) : -260.831 -253.198 -258.492 -257.629 -256.911 -254.170 -257.284 -250.955 -253.985 -247.262 -249.676 -248.906 -253.941 -250.408 -249.581
 CALC(I) : -257.910 -257.548 -257.010 -256.400 -255.727 -255.073 -254.417 -253.721 -253.000 -252.292 -251.525 -250.755 -249.969 -249.202 -248.419

CURVE FIT PARAMETERS : X(1) = 83.482 REL L = 0.324 SUMSQ = 842.327
 XDIST(I) : 0.025 0.067 0.132 0.208 0.294 0.382 0.473 0.574 0.684 0.798 0.927 1.066 1.216 1.374 1.547
 RSLT(I) : 54.959 84.934 99.877 110.990 117.233 123.286 131.426 130.161 128.553 135.593 134.400 133.286 137.763 141.308 138.208
 CALC(I) : 69.889 79.394 91.662 103.233 113.553 121.520 127.840 133.036 137.116 140.104 142.453 144.111 145.268 146.021 146.518

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14:28: 8

PROCESS DATE : 01-18-83 16:17:54

COMMENT: 20.0

ALPHA = -0.048 GAMMA = 20.007 RHO = 0.0

STEADY STATE : FX = -8.38 FY = 123.61 FZ = -351.42 MX = -263.55 MY = 68.66 MZ = 82.34

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 1.559 @ FY = 119.87

MX-RELAXATION L = 0.370 @ MX = -256.08

MZ-RELAXATION L = 0.048 @ MZ = 69.77

CURVE FIT PARAMETERS : X(1) = 9.217 REL L = 1.759 SUMSQ = 20.629

XDIST(I) : 0.025 0.067 0.137 0.215 0.303 0.391 0.484 0.581 0.678 0.775 0.870 0.944 1.018 1.101 1.194

RSLT(I) : 113.453 113.710 114.076 115.254 116.644 117.608 117.908 118.673 118.960 118.480 118.052 117.694 117.810 117.372 116.777

CALC(I) : 114.523 114.741 115.087 115.456 115.853 116.233 116.613 116.985 117.342 117.679 117.991 118.221 118.443 118.683 118.937

CURVE FIT PARAMETERS : X(1) = -22.171 REL L = 0.500 SUMSQ = 48.825

XDIST(I) : 0.025 0.067 0.137 0.215 0.303 0.391 0.484 0.581 0.678 0.775 0.870 0.944 1.018 1.101 1.194

RSLT(I) : -243.257 -243.608 -245.650 -250.141 -249.745 -256.480 -256.143 -254.973 -254.065 -259.016 -261.434 -258.406 -263.622 -261.633 -261.436

CALC(I) : -242.451 -244.173 -246.707 -249.135 -251.462 -253.417 -255.139 -256.611 -257.839 -258.848 -259.661 -260.194 -260.655 -261.101 -261.518

CURVE FIT PARAMETERS : X(1) = 129.488 REL L = 0.019 SUMSQ = 1182.129

XDIST(I) : 0.025 0.067 0.137 0.215 0.303 0.391 0.484 0.581 0.678 0.775 0.870 0.944 1.018 1.101 1.194

RSLT(I) : 48.177 78.126 93.731 99.422 99.741 93.104 92.660 92.058 89.904 86.667 81.134 84.830 85.653 88.209 85.437

CALC(I) : 48.133 78.860 82.259 82.339 82.340 82.340 82.340 82.340 82.340 82.340 82.340 82.340 82.340 82.340 82.340

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14:29:36

PROCESS DATE : 01-18-83 16:18:15

COMMENT: 20.-1

ALPHA = -1.042 GAMMA = 20.006 RHO = 0.0

STEADY STATE : FX = -6.55 FY = 189.12 FZ = -351.54 MX = -284.34 MY = 66.98 MZ = 21.72

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.642 @ FY = 162.76

MX-RELAXATION L = 1.421 @ MX = -274.13

MZ-RELAXATION L = 0.994 @ MZ = 33.95

CURVE FIT PARAMETERS : X(1) = 74.127 REL L = 0.643 SUMSQ = 23.673

XDIST(I) : 0.024 0.078 0.154 0.241 0.335 0.433 0.537 0.645 0.760 0.885 1.010 1.151 1.301 1.458 1.624

RSLT(I) : 117.469 122.698 130.613 139.151 144.918 151.813 158.174 162.881 167.321 169.940 172.074 173.769 178.510 181.306 185.677

CALC(I) : 117.760 123.437 130.763 138.194 145.080 151.358 156.973 161.939 166.408 170.411 173.731 176.753 179.328 181.448 183.198

CURVE FIT PARAMETERS : X(1) = -25.591 REL L = 2.097 SUMSQ = 206.719

XDIST(I) : 0.024 0.078 0.154 0.241 0.335 0.433 0.537 0.645 0.760 0.885 1.010 1.151 1.301 1.458 1.624

RSLT(I) : -256.587 -259.645 -264.169 -266.383 -259.665 -260.020 -260.779 -269.595 -265.245 -273.627 -262.524 -269.705 -267.169 -276.714 -272.042

CALC(I) : -259.044 -259.678 -260.556 -261.529 -262.522 -263.526 -264.528 -265.521 -266.529 -267.556 -268.531 -269.556 -270.576 -271.568 -272.542

CURVE FIT PARAMETERS : X(1) = -63.138 REL L = 1.016 SUMSQ = 1927.888

XDIST(I) : 0.024 0.078 0.154 0.241 0.335 0.433 0.537 0.645 0.760 0.885 1.010 1.151 1.301 1.458 1.624

RSLT(I) : 54.967 81.453 84.825 86.679 82.939 68.931 64.954 54.913 48.123 43.462 33.012 28.978 32.091 40.990 42.872

CALC(I) : 83.361 80.214 76.000 71.522 67.152 62.943 58.954 55.206 51.612 48.164 45.092 42.075 39.283 36.772 34.501

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14:31:15

PROCESS DATE : 01-18-83 16:18:36

COMMENT: 20,-3

ALPHA = -3.061 GAMMA = 20.011 RHO = 0.0

STEADY STATE : FX = -5.95 FY = 252.89 FZ = -351.43 MX = -314.92 MY = 65.08 MZ = 5.30

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.394 @ FY = 204.62

MX-RELAXATION L = 0.430 @ MX = -293.47

MZ-RELAXATION L = 0.430 @ MZ = 21.69

CURVE FIT PARAMETERS : X(1) = 140.196 REL L = 0.378 SUMSQ = 35.840

XDIST(I): 0.025 0.072 0.149 0.238 0.329 0.422 0.515 0.608 0.705 0.809 0.934 1.058 1.199 1.350 1.503

RSLT(I) : 121.675 137.410 157.259 177.328 194.554 208.223 219.333 226.344 231.755 235.821 240.298 242.499 244.900 245.467 248.564

CALC(I) : 121.653 137.100 158.419 178.288 194.220 207.041 217.021 224.886 231.234 236.442 241.082 244.385 247.035 248.963 250.265

CURVE FIT PARAMETERS : X(1) = -63.914 REL L = 0.410 SUMSQ = 111.529

XDIST(I): 0.025 0.072 0.149 0.238 0.329 0.422 0.515 0.608 0.705 0.809 0.934 1.058 1.199 1.350 1.503

RSLT(I) : -256.621-261.255-266.824-283.807-282.773-292.413-293.904-299.627-306.745-304.589-306.900-314.284-312.028-316.871-314.170

CALC(I) : -254.778-261.334-270.499-279.187-286.284-292.106-296.726-300.437-303.492-306.051-308.385-310.091-311.496-312.550-313.285

CURVE FIT PARAMETERS : X(1) = -73.995 REL L = 0.384 SUMSQ = 1758.098

XDIST(I): 0.025 0.072 0.149 0.238 0.329 0.422 0.515 0.608 0.705 0.809 0.934 1.058 1.199 1.350 1.503

RSLT(I) : 49.858 76.302 75.368 61.581 39.309 23.346 14.615 10.723 9.763 12.281 9.589 8.830 5.887 13.488 12.184

CALC(I) : 74.638 66.596 55.469 45.063 36.688 29.923 24.637 20.455 17.067 14.275 11.777 9.989 8.547 7.491 6.774

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14:32:47

PROCESS DATE : 01-18-83 16:18:52

COMMENT: 20,-5

ALPHA = -5.054 GAMMA = 20.003 RHO = 0.0

STEADY STATE : FX = -6.14 FY = 291.84 FZ = -351.67 MX = -339.18 MY = 64.01 MZ = 14.95

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.290 @ FY = 233.78

MX-RELAXATION L = 0.399 @ MX = -307.34

MZ-RELAXATION L = 0.237 @ MZ = 28.56

CURVE FIT PARAMETERS : X(1) = 177.713 REL L = 0.254 SUMSQ = 97.061

XDIST(I): 0.025 0.067 0.128 0.199 0.277 0.354 0.436 0.515 0.602 0.693 0.790 0.896 1.009 1.133 1.273

RSLT(I) : 134.020 155.946 181.142 206.107 229.982 248.639 260.712 270.365 277.980 283.066 285.463 287.035 291.854 292.649 293.250

CALC(I) : 130.644 155.418 184.431 210.647 231.995 247.721 259.890 268.393 275.236 280.229 283.912 286.604 288.487 289.781 290.650

CURVE FIT PARAMETERS : X(1) = -93.757 REL L = 0.363 SUMSQ = 163.608

XDIST(I): 0.025 0.067 0.128 0.199 0.277 0.354 0.436 0.515 0.602 0.693 0.790 0.896 1.009 1.133 1.273

RSLT(I) : -252.643-262.232-275.920-282.267-291.128-300.214-311.171-319.463-321.722-321.088-333.454-332.975-339.782-333.353-340.580

CALC(I) : -251.617-261.276-273.290-285.018-295.439-303.851-310.999-316.491-321.364-325.313-328.567-331.246-333.375-335.056-336.375

CURVE FIT PARAMETERS : X(1) = -62.402 REL L = 0.148 SUMSQ = 2239.632

XDIST(I): 0.025 0.067 0.128 0.199 0.277 0.354 0.436 0.515 0.602 0.693 0.790 0.896 1.009 1.133 1.273

RSLT(I) : 51.954 68.190 55.901 40.499 16.800 7.469 4.135 2.464 2.490 11.912 13.646 5.126 5.686 -1.850 0.964

CALC(I) : 67.724 54.578 41.235 31.207 24.578 20.653 18.225 16.874 16.012 15.523 15.246 15.093 15.015 14.976 14.958

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 14:36:16

PROCESS DATE : 01-18-83 16:19:14

COMMENT: 30,1

ALPHA = 0.922 GAMMA = 30.008 RHO = 0.0

STEADY STATE : FX = -13.30 FY = 106.99 FZ = -351.83 MX = -385.49 MY = 64.99 MZ = 196.56

ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.544 @ FY = 127.31
 MX-RELAXATION L = 0.482 @ MX = -388.26
 MZ-RELAXATION L = 0.108 @ MZ = 154.60

CURVE FIT PARAMETERS : X(1) = -53.850 REL L = 0.767 SUMSQ = 142.923
 XDIST(I) : 0.025 0.071 0.155 0.261 0.386 0.510 0.650 0.794 0.942 1.101 1.272 1.446 1.620 1.794 1.969
 RSLT(I) : 162.227 155.324 152.805 145.701 139.367 128.801 124.667 123.854 121.902 121.688 119.384 118.059 117.618 116.073 114.464
 CALC(I) : 159.123 156.074 151.009 145.309 139.537 134.681 130.069 126.101 122.755 119.799 117.248 115.166 113.502 112.177 111.121

CURVE FIT PARAMETERS : X(1) = 11.930 REL L = 1.008 SUMSQ = 448.653
 XDIST(I) : 0.025 0.071 0.155 0.261 0.386 0.510 0.650 0.794 0.942 1.101 1.272 1.446 1.620 1.794 1.969
 RSLT(I) : -393.024 -399.917 -402.856 -399.262 -395.606 -383.877 -396.064 -392.888 -396.472 -387.171 -381.979 -379.369 -380.508 -384.659 -384.018
 CALC(I) : -397.126 -396.604 -395.720 -394.696 -393.620 -392.680 -391.749 -390.912 -390.173 -389.488 -388.866 -388.330 -387.878 -387.498 -387.178

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 14:37:44
 PROCESS DATE : 01-18-83 16:20:07
 COMMENT: 30,0
 ALPHA = -0.072 GAMMA = 30.002 RHO = 0.0
 STEADY STATE : FX = -10.95 FY = 176.58 FZ = -351.73 MX = -409.99 MY = 66.33 MZ = 136.64
 ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.549 @ FY = 171.61
 MX-RELAXATION L = 0.030 @ MX = -409.09
 MZ-RELAXATION L = 0.060 @ MZ = 116.10

CURVE FIT PARAMETERS : X(1) = 15.171 REL L = 0.423 SUMSQ = 17.680
 XDIST(I) : 0.025 0.083 0.188 0.334 0.499 0.676 0.863 1.050 1.243 1.430 1.620 1.810 1.997 2.184 2.364
 RSLT(I) : 163.063 162.906 167.737 169.115 170.825 173.980 175.008 176.249 176.810 176.266 174.675 174.904 175.905 178.183 178.294
 CALC(I) : 162.264 164.102 166.838 169.686 171.907 173.502 174.602 175.307 175.773 176.061 176.248 176.367 176.443 176.491 176.522

CURVE FIT PARAMETERS : X(1) = -2.862 REL L = 610.438 SUMSQ = 338.678
 XDIST(I) : 0.025 0.083 0.188 0.334 0.499 0.676 0.863 1.050 1.243 1.430 1.620 1.810 1.997 2.184 2.364
 RSLT(I) : -407.544 -405.668 -413.604 -407.167 -413.006 -410.216 -414.113 -405.765 -403.998 -404.339 -413.361 -407.590 -400.769 -400.763 -399.266
 CALC(I) : -407.131 -407.131 -407.132 -407.132 -407.133 -407.134 -407.135 -407.135 -407.136 -407.137 -407.138 -407.139 -407.140 -407.141 -407.142

CURVE FIT PARAMETERS : X(1) = 55.830 REL L = 0.060 SUMSQ = 1771.510
 XDIST(I) : 0.025 0.083 0.188 0.334 0.499 0.676 0.863 1.050 1.243 1.430 1.620 1.810 1.997 2.184 2.364
 RSLT(I) : 80.806 130.867 118.332 157.312 154.053 144.275 139.310 145.640 136.820 137.937 130.208 130.960 146.034 146.568 135.377
 CALC(I) : 99.605 122.620 134.200 136.425 136.623 136.636 136.636 136.636 136.636 136.636 136.636 136.636 136.636 136.636 136.636

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 14:39:13
 PROCESS DATE : 01-18-83 16:20:23
 COMMENT: 30,-1
 ALPHA = -1.080 GAMMA = 30.010 RHO = 0.0
 STEADY STATE : FX = -9.13 FY = 228.11 FZ = -351.89 MX = -426.39 MY = 68.54 MZ = 87.86
 ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.650 @ FY = 204.65
 MX-RELAXATION L = 0.206 @ MX = -417.37
 MZ-RELAXATION L = 0.028 @ MZ = 84.15

CURVE FIT PARAMETERS : X(1) = 68.154 REL L = 0.559 SUMSQ = 70.322
 XDIST(I) : 0.025 0.071 0.164 0.300 0.458 0.638 0.829 1.034 1.248 1.467 1.695 1.924 2.155 2.397 2.642
 RSLT(I) : 164.355 169.491 176.795 186.410 194.958 204.039 212.586 217.430 225.522 225.095 227.805 227.773 227.610 228.468 230.075
 CALC(I) : 162.914 168.111 177.241 188.246 198.056 206.336 212.630 217.373 220.779 223.159 224.809 225.920 226.659 227.167 227.500

TESTID: RELAX.G
TIREID: T2
INFLATION PRESSURE : 32.
TEST DATE : 12/ 9/82 14:41: 7
PROCESS DATE : 01-18-83 16:21:13
COMMENT: 30,-3
ALPHA = -3.084 GAMMA = 30.013 RHO = 0.0
STEADY STATE : FX = -7.09 FY = 299.85 FZ = -351.65 MX = -459.28 MY = 65.19 MZ = 43.47
ESTIMATE FROM 1.-EXP(-1)
FY-RELAXATION L = 0.442 @ FY = 254.02
MX-RELAXATION L = 0.386 @ MX = -438.14
MZ-RELAXATION L = 0.683 @ MZ = 53.80

CURVE FIT PARAMETERS : X(1) = 132.697 REL L = 0.425 SUMSQ = 47.918
XDIST(I): 0.024 0.055 0.097 0.144 0.196 0.252 0.320 0.394 0.473 0.565 0.667 0.780 0.900 1.037 1.185
RSLT(I) : 175.261 184.578 192.614 204.455 215.406 227.112 236.291 246.163 257.818 266.948 275.046 279.605 283.647 285.660 287.757
CALC(I) : 174.474 183.312 194.306 205.385 216.269 226.439 237.431 247.308 256.288 264.752 272.250 278.708 283.903 288.282 291.685

CURVE FIT PARAMETERS : X(1) = -53.100 REL L = 0.364 SUMSQ = 297.326
XDIST(I): 0.024 0.055 0.097 0.144 0.196 0.252 0.320 0.394 0.473 0.565 0.667 0.780 0.900 1.037 1.185
RSLT(I) : -401.805-418.167-424.645-420.901-431.518-435.143-434.313-439.985-439.540-446.202-452.921-460.285-454.510-456.509-449.592
CALC(I) : -409.580-413.640-418.619-423.551-428.302-432.651-437.239-441.250-444.789-448.016-450.768-453.042-454.790-456.192-457.223

CURVE FIT PARAMETERS : X(1) = -64.343 REL L = 0.600 SUMSQ = 2539.121
XDIST(I): 0.024 0.055 0.097 0.144 0.196 0.252 0.320 0.394 0.473 0.565 0.667 0.780 0.900 1.037 1.185
RSLT(I) : 71.556 95.121 111.252 110.826 106.813 100.327 83.917 78.958 74.850 63.168 55.387 49.822 48.289 48.591 56.186
CALC(I) : 105.280 102.162 98.186 94.054 89.855 85.784 81.194 76.862 72.713 68.565 64.639 60.999 57.827 54.908 52.408

TESTID: RELAX.G
TIREID: T2
INFLATION PRESSURE : 32.
TEST DATE : 12/ 9/82 14:42:53
PROCESS DATE : 01-18-83 16:21:27
COMMENT: 30,-5
ALPHA = -5.081 GAMMA = 30.014 RHO = 0.0
STEADY STATE : FX = -6.93 FY = 316.57 FZ = -351.58 MX = -468.33 MY = 60.93 MZ = 46.85
ESTIMATE FROM 1.-EXP(-1)
FY-RELAXATION L = 0.242 @ FY = 266.54
MX-RELAXATION L = 0.277 @ MX = -450.24
MZ-RELAXATION L = 0.342 @ MZ = 64.18

CURVE FIT PARAMETERS : X(1) = 162.220 REL L = 0.190 SUMSQ = 430.854
XDIST(I): 0.026 0.082 0.166 0.255 0.344 0.431 0.515 0.598 0.683 0.777 0.877 0.984 1.109 1.233 1.376
RSLT(I) : 180.573 208.699 210.484 270.408 291.336 305.620 309.118 315.096 316.289 318.908 321.250 321.151 321.763 322.071 324.366
CALC(I) : 175.434 211.095 248.829 274.191 290.114 299.859 305.833 309.646 312.152 313.870 314.981 315.665 316.100 316.326 316.454

CURVE FIT PARAMETERS : X(1) = -51.144 REL L = 0.277 SUMSQ = 419.009
XDIST(I): 0.026 0.082 0.166 0.255 0.344 0.431 0.515 0.598 0.683 0.777 0.877 0.984 1.109 1.233 1.376
RSLT(I) : -419.161-427.258-414.521-445.297-456.501-456.330-469.920-461.819-468.524-470.811-470.640-470.959-472.541-477.207-476.375
CALC(I) : -421.834-430.236-410.195-447.920-453.545-457.534-460.354-462.423-463.987-465.229-466.173-466.863-467.394-467.733-467.972

CURVE FIT PARAMETERS : X(1) = -72.039 REL L = 0.327 SUMSQ = 1468.747
XDIST(I): 0.026 0.082 0.166 0.255 0.344 0.431 0.515 0.598 0.683 0.777 0.877 0.984 1.109 1.233 1.376
RSLT(I) : 93.970 118.712 109.461 83.420 63.765 57.181 48.468 55.167 56.022 55.511 52.874 51.927 56.955 53.909 53.874
CALC(I) : 113.291 102.952 90.231 79.886 71.977 66.093 61.733 58.385 55.734 53.523 51.754 50.386 49.263 48.498 47.916

TESTID: RELAX.G
TIREID: T2
INFLATION PRESSURE : 32.
TEST DATE : 12/ 9/82 15:34:27

PROCESS DATE : 01-18-83 16:21:39

COMMENT: 40,-5

ALPHA = -5.028 GAMMA = 40.013 RHO = 0.0

STEADY STATE : FX = -8.57 FY = 335.20 FZ = -352.39 MX = -655.91 MY = 57.02 MZ = 86.17

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.260 @ FY = 294.25

MX-RELAXATION L = 0.157 @ MX = -639.07

MZ-RELAXATION L = 0.678 @ MZ = 97.27

CURVE FIT PARAMETERS : X(1) = 130.748 REL L = 0.203 SUMSQ = 293.805

XDIST(I) : 0.025 0.072 0.139 0.217 0.295 0.378 0.459 0.546 0.640 0.742 0.848 0.972 1.096 1.235 1.383

RSLT(I) : 223.877 240.045 255.395 288.529 305.019 314.791 324.518 330.437 333.457 336.091 335.296 333.647 327.765 325.377 328.302

CALC(I) : 219.529 243.232 259.238 290.269 304.545 314.873 321.555 326.306 329.600 331.806 333.187 334.103 334.603 334.898 335.053

CURVE FIT PARAMETERS : X(1) = -62.176 REL L = 0.168 SUMSQ = 547.582

XDIST(I) : 0.025 0.072 0.139 0.217 0.295 0.378 0.459 0.546 0.640 0.742 0.848 0.972 1.096 1.235 1.383

RSLT(I) : -610.132 -606.818 -622.885 -638.379 -647.304 -651.808 -663.416 -655.582 -655.429 -657.012 -659.234 -655.049 -645.320 -645.810 -654.487

CALC(I) : -602.308 -615.304 -628.758 -638.854 -645.175 -649.383 -651.882 -653.512 -654.541 -655.164 -655.514 -655.720 -655.819 -655.871 -655.894

CURVE FIT PARAMETERS : X(1) = -98.888 REL L = 0.447 SUMSQ = 8179.938

XDIST(I) : 0.025 0.072 0.139 0.217 0.295 0.378 0.459 0.546 0.640 0.742 0.848 0.972 1.096 1.235 1.383

RSLT(I) : 116.351 193.284 199.568 169.926 152.615 136.899 114.325 104.513 101.506 95.551 84.119 80.887 82.012 85.090 97.144

CALC(I) : 179.698 170.433 158.608 146.999 137.287 128.573 121.541 115.281 109.756 104.949 100.976 97.398 94.682 92.399 90.644

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 16:21:24

PROCESS DATE : 01-18-83 16:21:55

COMMENT: 40,-3

ALPHA = -3.127 GAMMA = 40.011 RHO = 0.0

STEADY STATE : FX = -10.33 FY = 317.38 FZ = -352.49 MX = -650.94 MY = 61.61 MZ = 115.61

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.364 @ FY = 280.92

MX-RELAXATION L = 0.300 @ MX = -634.32

MZ-RELAXATION L = 1.095 @ MZ = 124.10

CURVE FIT PARAMETERS : X(1) = 108.406 REL L = 0.322 SUMSQ = 104.581

XDIST(I) : 0.025 0.080 0.167 0.268 0.377 0.487 0.608 0.723 0.846 0.985 1.120 1.259 1.407 1.558 1.715

RSLT(I) : 218.290 235.516 247.770 268.448 282.288 293.647 301.462 309.321 313.060 310.870 315.697 317.777 317.303 319.228 321.268

CALC(I) : 216.935 232.714 252.798 270.288 283.773 293.496 300.990 305.907 309.565 312.300 314.040 315.211 316.007 316.519 316.850

CURVE FIT PARAMETERS : X(1) = -55.267 REL L = 0.218 SUMSQ = 383.458

XDIST(I) : 0.025 0.080 0.167 0.268 0.377 0.487 0.608 0.723 0.846 0.985 1.120 1.259 1.407 1.558 1.715

RSLT(I) : -605.758 -607.649 -624.754 -629.922 -647.602 -650.149 -639.615 -648.921 -652.449 -659.898 -655.174 -655.042 -656.324 -655.282 -650.639

CALC(I) : -601.575 -612.602 -625.255 -634.842 -641.168 -645.045 -647.564 -648.949 -649.813 -650.345 -650.622 -650.773 -650.856 -650.899 -650.921

CURVE FIT PARAMETERS : X(1) = -92.200 REL L = 0.684 SUMSQ = 9171.832

XDIST(I) : 0.025 0.080 0.167 0.268 0.377 0.487 0.608 0.723 0.846 0.985 1.120 1.259 1.407 1.558 1.715

RSLT(I) : 138.692 206.231 232.846 219.981 181.922 168.343 143.216 136.163 131.099 127.949 123.773 121.666 118.921 120.997 118.173

CALC(I) : 204.559 197.692 187.880 177.908 168.769 160.883 153.536 147.680 142.381 137.470 133.554 130.251 127.412 125.077 123.136

TESTID: RELAX.G

TIREID: T2

INFLATION PRESSURE : 32.

TEST DATE : 12/ 9/82 16:23:20

PROCESS DATE : 01-18-83 16:22:09

COMMENT: 40,-1

ALPHA = -1.103 GAMMA = 40.006 RHO = 0.0

STEADY STATE : FX = -13.47 FY = 273.85 FZ = -352.13 MX = -631.44 MY = 63.78 MZ = 174.71

ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.733 [Ⓜ] FY = 252.52
 MX-RELAXATION L = 0.530 [Ⓜ] MX = -624.65
 MZ-RELAXATION L = 0.037 [Ⓜ] MZ = 155.65

CURVE FIT PARAMETERS : X(1) = 59.205 REL L = 0.788 SUMSQ = 136.956
 XDIST(I) : 0.024 0.078 0.158 0.254 0.361 0.473 0.598 0.723 0.846 0.986 1.132 1.288 1.455 1.630 1.816
 RSLT(I) : 215.875 221.912 221.123 230.140 238.323 242.561 245.831 252.055 257.181 258.759 262.456 261.691 263.226 260.802 260.876
 CALC(I) : 216.452 220.216 225.395 230.984 236.405 241.358 246.133 250.187 253.627 256.915 259.773 262.305 264.509 266.365 267.939

CURVE FIT PARAMETERS : X(1) = -25.473 REL L = 0.640 SUMSQ = 159.036
 XDIST(I) : 0.024 0.078 0.158 0.254 0.361 0.473 0.598 0.723 0.846 0.986 1.132 1.288 1.455 1.630 1.816
 RSLT(I) : -612.992 -603.971 -610.619 -615.044 -618.983 -618.845 -618.635 -628.505 -623.720 -627.968 -632.759 -630.723 -632.001 -628.470 -631.129
 CALC(I) : -608.923 -608.888 -611.541 -614.329 -616.955 -619.278 -621.441 -623.210 -624.659 -625.990 -627.100 -628.041 -628.822 -629.448 -629.951

CURVE FIT PARAMETERS : X(1) = 51.810 REL L = 0.037 SUMSQ = *****
 XDIST(I) : 0.024 0.078 0.158 0.254 0.361 0.473 0.598 0.723 0.846 0.986 1.132 1.288 1.455 1.630 1.816
 RSLT(I) : 122.904 204.077 217.487 245.480 230.894 222.670 214.392 206.481 210.201 204.869 199.348 187.900 186.182 189.266 181.447
 CALC(I) : 147.879 168.337 173.972 174.659 174.711 174.714 174.714 174.714 174.714 174.714 174.714 174.714 174.714 174.714 174.714

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 16:25:15
 PROCESS DATE : 01-18-83 16:22:27
 COMMENT: 40,0
 ALPHA = -0.115 GAMMA = 40.008 RHO = 0.0
 STEADY STATE : FX = -16.34 FY = 218.07 FZ = -352.30 MX = -600.85 MY = 60.37 MZ = 234.75

ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 1.053 [Ⓜ] FY = 213.47
 MX-RELAXATION L = 0.032 [Ⓜ] MX = -600.33
 MZ-RELAXATION L = 0.068 [Ⓜ] MZ = 186.53

CURVE FIT PARAMETERS : X(1) = 15.220 REL L = 1.166 SUMSQ = 45.526
 XDIST(I) : 0.025 0.074 0.166 0.287 0.419 0.549 0.685 0.824 0.957 1.087 1.224 1.365 1.508 1.652 1.799
 RSLT(I) : 205.555 207.029 201.516 203.361 207.282 206.847 208.533 210.299 212.157 214.086 212.637 214.037 214.431 214.480 215.561
 CALC(I) : 203.172 203.787 204.871 206.172 207.443 208.564 209.610 210.560 211.373 212.078 212.743 213.350 213.894 214.381 214.818

TESTID: RELAX.G
 TIREID: T2
 INFLATION PRESSURE : 32.
 TEST DATE : 12/ 9/82 16:27:23
 PROCESS DATE : 01-18-83 16:23:23
 COMMENT: 40,1
 ALPHA = 0.868 GAMMA = 10.003 RHO = 0.0
 STEADY STATE : FX = -18.43 FY = 168.21 FZ = -352.22 MX = -583.80 MY = 56.02 MZ = 281.62

ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.281 [Ⓜ] FY = 182.98
 MX-RELAXATION L = 1.033 [Ⓜ] MX = -587.24
 MZ-RELAXATION L = 0.100 [Ⓜ] MZ = 224.66

CURVE FIT PARAMETERS : X(1) = -46.329 REL L = 0.281 SUMSQ = 206.881
 XDIST(I) : 0.025 0.082 0.182 0.302 0.435 0.574 0.710 0.837 0.971 1.109 1.249 1.392 1.534 1.673 1.806
 RSLT(I) : 208.360 205.505 192.247 182.488 182.604 175.890 169.388 170.754 167.801 163.302 163.754 167.091 160.380 163.415 165.304
 CALC(I) : 210.659 202.775 192.463 184.017 178.045 174.207 171.908 170.557 169.667 169.102 168.753 168.538 168.409 168.333 168.287

TESTID: RELAX.G
 TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11: 9:52

PROCESS DATE : 01-18-83 16:24:25

COMMENT: 0.1

ALPHA = 0.961 GAMMA = 0.011 RHO = 0.0

STEADY STATE : FX = -4.85 FY = -66.38 FZ = -266.49 MX = 26.31 MY = 48.53 MZ = 55.72

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.555 @ FY = -42.52

MX-RELAXATION L = 0.402 @ MX = 22.64

MZ-RELAXATION L = 0.573 @ MZ = 35.04

CURVE FIT PARAMETERS : X(1) = -66.101 REL L = 0.562 SUMSQ = 22.996

XDIST(I): 0.025 0.079 0.175 0.292 0.426 0.577 0.736 0.906 1.081 1.261 1.449 1.635 1.828 2.022 2.216

RSLT(I) : -1.515 -8.643 -18.795 -28.297 -36.554 -43.613 -49.262 -53.252 -56.008 -57.206 -58.801 -61.772 -62.679 -64.050 -66.168

CALC(I) : -3.101 -8.992 -17.920 -27.089 -35.379 -42.711 -48.544 -53.186 -56.721 -59.366 -61.354 -62.776 -63.823 -64.567 -65.097

CURVE FIT PARAMETERS : X(1) = 16.563 REL L = 0.359 SUMSQ = 188.060

XDIST(I): 0.025 0.079 0.175 0.292 0.426 0.577 0.736 0.906 1.081 1.261 1.449 1.635 1.828 2.022 2.216

RSLT(I) : 16.330 9.840 8.669 21.177 22.640 23.944 29.095 23.970 22.386 25.906 25.070 27.712 29.793 31.751 24.500

CALC(I) : 10.843 13.038 16.127 18.979 21.252 22.996 24.183 24.984 25.497 25.818 26.019 26.138 26.210 26.252 26.277

CURVE FIT PARAMETERS : X(1) = 65.459 REL L = 0.490 SUMSQ = 139.306

XDIST(I): 0.025 0.079 0.175 0.292 0.426 0.577 0.736 0.906 1.081 1.261 1.449 1.635 1.828 2.022 2.216

RSLT(I) : -0.512 -0.135 3.713 15.057 27.902 35.358 43.151 47.385 52.189 55.279 52.467 52.935 53.723 54.410 55.946

CALC(I) : -6.539 0.060 9.871 19.673 28.251 35.563 41.149 45.409 48.510 50.726 52.314 53.395 54.152 54.665 55.012

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:11:22

PROCESS DATE : 01-18-83 16:24:41

COMMENT: 0.0

ALPHA = -0.043 GAMMA = 0.009 RHO = 0.0

STEADY STATE : FX = -4.35 FY = -1.24 FZ = -266.42 MX = 5.82 MY = 42.60 MZ = -1.04

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.910 @ FY = -0.93

MX-RELAXATION L = 0.280 @ MX = 3.43

MZ-RELAXATION L = 0.026 @ MZ = -0.25

CURVE FIT PARAMETERS : X(1) = -1.604 REL L = 0.597 SUMSQ = 13.641

XDIST(I): 0.025 0.083 0.195 0.357 0.554 0.776 1.009 1.245 1.494 1.732 1.974 2.213 2.446 2.671 2.890

RSLT(I) : -0.408 -0.218 0.418 0.473 0.610 0.122 -2.114 -2.455 -3.276 -1.488 -0.676 -0.285 -1.649 -0.724 -1.359

CALC(I) : 0.299 0.155 -0.084 -0.359 -0.606 -0.803 -0.945 -1.041 -1.109 -1.152 -1.181 -1.201 -1.213 -1.222 -1.227

CURVE FIT PARAMETERS : X(1) = 6.489 REL L = 0.280 SUMSQ = 376.924

XDIST(I): 0.025 0.083 0.195 0.357 0.554 0.776 1.009 1.245 1.494 1.732 1.974 2.213 2.446 2.671 2.890

RSLT(I) : -0.668 0.090 1.780 2.561 5.974 9.806 7.191 7.237 5.320 13.829 12.589 13.739 10.883 16.032 12.521

CALC(I) : -0.123 0.996 2.587 4.008 4.921 5.413 5.643 5.744 5.789 5.807 5.815 5.818 5.819 5.820 5.820

CURVE FIT PARAMETERS : X(1) = -85.610 REL L = 0.007 SUMSQ = 133.502

XDIST(I): 0.025 0.083 0.195 0.357 0.554 0.776 1.009 1.245 1.494 1.732 1.974 2.213 2.446 2.671 2.890

RSLT(I) : 1.102 -3.244 -4.606 -5.054 -2.237 -1.231 -1.171 0.350 1.154 5.151 3.914 1.733 1.588 2.653 -0.410

CALC(I) : 1.092 -1.042 -1.043 -1.043 -1.043 -1.043 -1.043 -1.043 -1.043 -1.043 -1.043 -1.043 -1.043 -1.043 -1.043

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:13: 8

PROCESS DATE : 01-18-83 16:24:57

COMMENT: 0,-1

ALPHA = -1.050 GAMMA = 0.010 RHO = 0.0

STEADY STATE : FX = -3.99 FY = 61.85 FZ = -266.42 MX = -12.99 MY = 38.21 MZ = -60.65

ESTIMATE FROM 1.-EXP(-1)
FY-RELAXATION L = 0.532 a FY = 40.85
MX-RELAXATION L = 0.636 a MX = -6.82
MZ-RELAXATION L = 0.556 a MZ = -39.80

CURVE FIT PARAMETERS : X(1) = 59.607 REL L = 6.056
XDIST(I) : 0.025 0.078 0.144 0.221 0.308 0.623 0.750 0.895 1.055 1.230 1.415 1.610 1.811
RSLT(I) : 4.754 10.469 17.102 23.416 29.511 35.247 40.070 44.094 49.005 51.852 54.659 55.792 57.479 58.168 59.339 60.159
CALC(I) : 5.050 10.748 16.941 23.292 29.328 34.800 39.962 44.348 48.229 51.598 54.363 56.551 58.168 59.339 60.159

CURVE FIT PARAMETERS : X(1) = -16.211 REL L = 57.935
XDIST(I) : 0.025 0.078 0.144 0.221 0.308 0.623 0.750 0.895 1.055 1.230 1.415 1.610 1.811
RSLT(I) : 3.789 -1.263 1.534 4.572 -0.316 -0.500 -2.601 -4.970 -1.262 -6.642 -2.185 -8.098 -7.389 -8.547 -9.081
CALC(I) : 2.925 2.303 1.576 0.762 -0.094 -0.959 -1.883 -2.781 -3.703 -4.647 -5.579 -6.485 -7.320 -8.082 -8.762

CURVE FIT PARAMETERS : X(1) = -61.807 REL L = 59.866
XDIST(I) : 0.025 0.078 0.144 0.221 0.308 0.623 0.750 0.895 1.055 1.230 1.415 1.610 1.811
RSLT(I) : -3.986 -5.730 -13.948 -17.771 -24.577 -31.663 -38.392 -43.560 -44.462 -53.225 -51.037 -53.828 -57.601 -57.027 -54.439
CALC(I) : -1.641 -7.343 -13.567 -19.987 -26.125 -31.728 -37.054 -41.617 -45.693 -49.268 -52.235 -54.614 -56.395 -57.704 -58.635

TESTID: RELAX.G
TIREID: T1
INFLATION PRESSURE : 25.
TEST DATE : 12/10/82 11:14:44
PROCESS DATE : 01-18-83 16:25:13
COMMENT: 0.-3
ALPHA = -3.050 GAMMA = 0.011 RHO = 0.0
STEADY STATE : FX = -4.69 FY = 160.53 FZ = -266.28 MX = -56.89 MY = 46.50 MZ = -91.70

ESTIMATE FROM 1.-EXP(-1)
FY-RELAXATION L = 0.448 a FY = 105.70
MX-RELAXATION L = 0.682 a MX = -37.71
MZ-RELAXATION L = 0.314 a MZ = -60.77

TESTID: RELAX.G
TIREID: T1
INFLATION PRESSURE : 25.
TEST DATE : 12/10/82 11:16:11
PROCESS DATE : 01-18-83 16:25:57
COMMENT: 0.-5
ALPHA = -5.052 GAMMA = 0.007 RHO = 0.0
STEADY STATE : FX = -4.76 FY = 223.18 FZ = -266.27 MX = -89.11 MY = 47.25 MZ = -70.22

ESTIMATE FROM 1.-EXP(-1)
FY-RELAXATION L = 0.369 a FY = 145.17
MX-RELAXATION L = 0.536 a MX = -60.86
MZ-RELAXATION L = 0.202 a MZ = -44.12

CURVE FIT PARAMETERS : X(1) = 231.061 REL L = 224.734
XDIST(I) : 0.024 0.062 0.122 0.199 0.287 0.379 0.478 0.580 0.688 0.810 0.921 1.060 1.195 1.341 1.500
RSLT(I) : 11.135 33.911 62.667 94.372 123.047 147.350 167.113 183.794 196.964 206.700 214.267 219.944 221.636 225.129 227.700
CALC(I) : 8.462 31.977 64.008 97.142 126.708 150.355 169.421 183.716 194.820 203.638 209.208 214.038 217.121 219.296 220.788

CURVE FIT PARAMETERS : X(1) = -90.763 REL L = 286.223
XDIST(I) : 0.024 0.062 0.122 0.199 0.287 0.379 0.478 0.580 0.688 0.810 0.921 1.060 1.195 1.341 1.500
RSLT(I) : -12.335 -7.136 -19.159 -22.904 -40.459 -49.455 -55.945 -67.221 -73.632 -77.476 -75.839 -81.411 -91.648 -87.285 -86.489
CALC(I) : -3.170 -10.281 -20.340 -31.311 -41.743 -50.691 -58.463 -64.764 -70.073 -74.683 -77.873 -80.916 -83.078 -84.779 -86.092

CURVE FIT PARAMETERS : X(1) = -70.957 REL L = 2093.067
XDIST(I) : 0.024 0.062 0.122 0.199 0.287 0.379 0.478 0.580 0.688 0.810 0.921 1.060 1.195 1.341 1.500
RSLT(I) : 0.737 -8.983 -24.803 -42.676 -70.325 -79.681 -78.563 -80.841 -82.720 -82.365 -82.636 -79.552 -72.931 -74.135 -77.750
CALC(I) : -7.234 -18.048 -31.483 -43.704 -53.043 -59.340 -63.575 -66.198 -67.868 -68.936 -69.475 -69.846 -70.029 -70.127 -70.178

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:21:38

PROCESS DATE : 01-18-83 16:27:18

COMMENT: 10,-1

ALPHA = -1.052 GAMMA = 10.007 RHO = 0.0

STEADY STATE : FX = -3.68 FY = 113.07 FZ = -266.32 MX = -110.95 MY = 39.88 MZ = -27.04

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.573 ^a FY = 89.53

MX-RELAXATION L = 1.158 ^a MX = -104.60

MZ-RELAXATION L = 0.775 ^a MZ = -7.43

CURVE FIT PARAMETERS : X(1) = 65.468 REL L = 0.574 SUMSQ = 16.642

XDIST(I): 0.025 0.080 0.187 0.318 0.474 0.638 0.809 0.989 1.175 1.373 1.575 1.782 1.994 2.197 2.402
RSLT(I) : 49.096 56.014 66.039 76.720 86.258 91.549 96.788 100.849 103.643 106.522 109.017 109.819 109.059 109.958 110.887
CALC(I) : 50.341 56.118 65.776 75.463 84.378 91.515 97.084 101.391 104.609 107.080 108.857 110.130 111.038 111.641 112.070

CURVE FIT PARAMETERS : X(1) = -24.972 REL L = 0.874 SUMSQ = 291.568

XDIST(I): 0.025 0.080 0.187 0.318 0.474 0.638 0.809 0.989 1.175 1.373 1.575 1.782 1.994 2.197 2.402
RSLT(I) : -93.678 -81.281 -92.993 -96.213 -90.285 -98.366 -100.301 -99.413 -105.467 -103.501 -105.232 -107.629 -117.158 -113.996 -114.000
CALC(I) : -86.673 -88.165 -90.782 -93.600 -96.425 -98.912 -101.058 -102.901 -104.437 -105.760 -106.832 -107.700 -108.402 -108.929 -109.353

CURVE FIT PARAMETERS : X(1) = -65.875 REL L = 0.729 SUMSQ = 290.320

XDIST(I): 0.025 0.080 0.187 0.318 0.474 0.638 0.809 0.989 1.175 1.373 1.575 1.782 1.994 2.197 2.402
RSLT(I) : 26.270 32.949 31.506 23.282 9.952 0.181 -8.270 -12.139 -19.793 -16.918 -21.542 -21.067 -23.003 -25.495 -22.968
CALC(I) : 36.655 31.989 23.955 15.535 7.366 0.429 -5.331 -10.086 -13.886 -17.019 -19.446 -21.320 -22.766 -23.802 -24.597

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:23:14

PROCESS DATE : 01-18-83 16:27:35

COMMENT: 10,-3

ALPHA = -3.050 GAMMA = 10.008 RHO = 0.0

STEADY STATE : FX = -3.58 FY = 203.80 FZ = -266.29 MX = -150.27 MY = 44.06 MZ = -58.27

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.439 ^a FY = 149.35

MX-RELAXATION L = 0.696 ^a MX = -128.23

MZ-RELAXATION L = 0.385 ^a MZ = -28.67

CURVE FIT PARAMETERS : X(1) = 155.498 REL L = 0.434 SUMSQ = 3.510

XDIST(I): 0.025 0.026 0.029 0.034 0.039 0.045 0.052 0.059 0.067 0.075 0.082 0.091 0.099 0.108 0.117
RSLT(I) : 55.792 56.827 58.272 60.070 62.118 64.301 66.521 68.718 70.876 73.021 75.196 77.444 79.793 82.245 84.788
CALC(I) : 56.873 57.478 58.479 59.882 61.639 63.668 65.874 68.170 70.502 72.846 75.210 77.610 80.064 82.574 85.124

CURVE FIT PARAMETERS : X(1) = -63.202 REL L = 1.210 SUMSQ = 118.028

XDIST(I): 0.025 0.026 0.029 0.034 0.039 0.045 0.052 0.059 0.067 0.075 0.082 0.091 0.099 0.108 0.117
RSLT(I) : -90.355 -91.187 -91.391 -90.844 -89.662 -88.187 -86.855 -86.088 -86.182 -87.165 -88.887 -91.065 -93.350 -95.493 -97.342
CALC(I) : -88.343 -88.435 -88.587 -88.801 -89.071 -89.386 -89.731 -90.094 -90.467 -90.846 -91.233 -91.631 -92.042 -92.468 -92.907

CURVE FIT PARAMETERS : X(1) = -84.764 REL L = 169.258 SUMSQ = 44.831

XDIST(I): 0.025 0.026 0.029 0.034 0.039 0.045 0.052 0.059 0.067 0.075 0.082 0.091 0.099 0.108 0.117
RSLT(I) : 22.188 23.430 24.756 25.983 26.964 27.616 27.951 28.038 27.970 27.833 27.659 27.416 27.042 26.453 25.580
CALC(I) : 26.478 26.477 26.475 26.473 26.471 26.468 26.464 26.460 26.457 26.453 26.449 26.445 26.441 26.436 26.431

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:24:44

PROCESS DATE : 01-18-83 16:28:00

COMMENT : 10,-5

ALPHA = -5.054 GAMMA = 10.010 RHO = 0.0

STEADY STATE : FX = -3.90 FY = 238.96 FZ = -266.23 MX = -172.07 MY = 42.69 MZ = -28.67

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.298 FY = 174.21

MX-RELAXATION L = 0.381 MX = -142.09

MZ-RELAXATION L = 0.206 MZ = -10.94

CURVE FIT PARAMETERS : X(1) = 195.750 REL L = 0.271 SUMSQ = 71.528

XDIST(I) : 0.025 0.083 0.183 0.298 0.436 0.575 0.724 0.877 1.038 1.201 1.364 1.524 1.684 1.843 1.999

RSLT(I) : 62.965 93.277 134.715 174.144 200.915 218.044 227.089 231.510 233.937 236.880 239.134 239.919 240.179 241.305 242.531

CALC(I) : 60.173 94.702 139.355 173.668 199.693 215.408 225.381 231.219 234.679 236.611 237.667 238.242 238.560 238.735 238.832

CURVE FIT PARAMETERS : X(1) = -90.528 REL L = 0.356 SUMSQ = 177.270

XDIST(I) : 0.025 0.083 0.183 0.298 0.436 0.575 0.724 0.877 1.038 1.201 1.364 1.524 1.684 1.843 1.999

RSLT(I) : -90.572-100.151-114.739-127.568-145.559-159.114-164.412-164.834-167.829-171.605-169.650-169.549-163.341-172.937-168.218

CALC(I) : -87.590-100.348-118.002-132.895-145.492-154.075-160.248-164.370-167.171-168.972-170.107-170.818-171.271-171.558-171.739

CURVE FIT PARAMETERS : X(1) = -67.224 REL L = 0.138 SUMSQ = 756.632

XDIST(I) : 0.025 0.083 0.183 0.298 0.436 0.575 0.724 0.877 1.038 1.201 1.364 1.524 1.684 1.843 1.999

RSLT(I) : 19.513 21.707 -4.957 -35.301 -38.676 -29.404 -26.515 -25.930 -22.950 -23.760 -26.327 -27.657 -24.171 -26.270 -28.342

CALC(I) : 27.579 8.217 -10.863 -20.908 -25.813 -27.623 -28.314 -28.551 -28.631 -28.657 -28.664 -28.667 -28.667 -28.668 -28.668

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:26: 9

PROCESS DATE : 01-18-83 16:28:28

COMMENT: 20,1

ALPHA = 0.930 GAMMA = 20.004 RHO = 0.0

STEADY STATE : FX = -7.31 FY = 38.94 FZ = -266.39 MX = -173.60 MY = 39.73 MZ = 121.56

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.587 FY = 56.21

MX-RELAXATION L = 0.924 MX = -179.35

MZ-RELAXATION L = 0.282 MZ = 93.44

CURVE FIT PARAMETERS : X(1) = -47.192 REL L = 0.631 SUMSQ = 36.877

XDIST(I) : 0.025 0.072 0.144 0.224 0.316 0.416 0.524 0.647 0.785 0.925 1.079 1.239 1.404 1.570 1.741

RSLT(I) : 85.891 82.669 75.876 71.231 66.096 61.397 57.966 55.362 51.807 49.258 48.947 47.647 45.977 44.757 44.638

CALC(I) : 84.298 81.013 76.498 72.021 67.538 63.342 59.490 55.849 52.542 49.827 47.466 45.561 44.033 42.853 41.927

CURVE FIT PARAMETERS : X(1) = 16.700 REL L = 0.848 SUMSQ = 129.578

XDIST(I) : 0.025 0.072 0.144 0.224 0.316 0.416 0.524 0.647 0.785 0.925 1.079 1.239 1.404 1.570 1.741

RSLT(I) : -189.213-189.209-184.306-186.455-186.702-185.861-184.059-184.733-180.971-179.314-176.452-173.100-175.804-170.305-181.958

CALC(I) : -189.817-188.935-187.694-186.425-185.109-183.828-182.602-181.387-180.223-179.213-178.281-177.479-176.792-176.224-175.747

CURVE FIT PARAMETERS : X(1) = 73.309 REL L = 0.380 SUMSQ = 317.864

XDIST(I) : 0.025 0.072 0.144 0.224 0.316 0.416 0.524 0.647 0.785 0.925 1.079 1.239 1.404 1.570 1.741

RSLT(I) : 45.125 61.863 75.644 83.980 96.052 102.937 102.807 102.190 106.015 109.544 113.147 114.194 119.124 117.665 120.131

CALC(I) : 52.908 60.955 71.350 80.877 89.605 96.995 103.083 108.187 112.238 115.114 117.262 118.734 119.730 120.378 120.804

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:27:36

PROCESS DATE : 01-18-83 16:28:50

COMMENT: 20,0

ALPHA = -0.078 GAMMA = 20.000 RHO = 0.0

STEADY STATE : FX = -5.53 FY = 97.99 FZ = -266.33 MX = -189.09 MY = 38.34 MZ = 62.37

ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.933 @ FY = 94.97
 MX-RELAXATION L = 0.025 @ MX = -188.77
 MZ-RELAXATION L = 0.056 @ MZ = 53.33

CURVE FIT PARAMETERS : X(1) = 11.570 REL L = 0.631 SUMSQ = 42.460
 XDIST(I) : 0.025 0.083 0.188 0.341 0.528 0.740 0.974 1.260 1.523 1.752 1.971 2.179 2.371 2.557 2.732
 RSLT(I) : 89.775 86.733 87.001 92.198 92.121 91.749 95.994 97.384 98.717 99.264 98.069 97.238 99.991 99.866 98.096
 CALC(I) : 86.865 87.852 89.410 91.256 92.982 94.414 95.523 96.423 96.958 97.273 97.484 97.627 97.723 97.792 97.841

CURVE FIT PARAMETERS : X(1) = -0.867 REL L = 0.025 SUMSQ = 157.151
 XDIST(I) : 0.025 0.083 0.188 0.341 0.528 0.740 0.974 1.260 1.523 1.752 1.971 2.179 2.371 2.557 2.732
 RSLT(I) : -188.226-191.166-196.376-189.729-190.993-192.169-190.475-188.513-193.181-188.142-184.413-188.643-187.812-188.918-195.592
 CALC(I) : -188.769-189.061-189.092-189.092-189.092-189.092-189.092-189.092-189.092-189.092-189.092-189.092-189.092-189.092-189.092

CURVE FIT PARAMETERS : X(1) = 151.879 REL L = 0.014 SUMSQ = 528.390
 XDIST(I) : 0.025 0.083 0.188 0.341 0.528 0.740 0.974 1.260 1.523 1.752 1.971 2.179 2.371 2.557 2.732
 RSLT(I) : 37.797 62.050 75.394 73.799 70.583 66.106 68.435 59.633 59.413 59.958 56.237 57.073 57.724 61.949 62.897
 CALC(I) : 37.793 62.043 62.365 62.365 62.365 62.365 62.365 62.365 62.365 62.365 62.365 62.365 62.365 62.365 62.365

TESTID: RELAX.G
 TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11:29: 9
 PROCESS DATE : 01-18-83 16:29:08
 COMMENT: 20,-1
 ALPHA = -1.057 GAMMA = 20.008 RHO = 0.0
 STEADY STATE : FX = -4.31 FY = 154.60 FZ = -266.24 MX = -206.34 MY = 42.46 MZ = 7.69

ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.538 @ FY = 130.33
 MX-RELAXATION L = 0.652 @ MX = -200.29
 MZ-RELAXATION L = 0.958 @ MZ = 22.33

CURVE FIT PARAMETERS : X(1) = 69.865 REL L = 0.512 SUMSQ = 11.988
 XDIST(I) : 0.026 0.088 0.199 0.324 0.466 0.611 0.763 0.918 1.079 1.251 1.425 1.608 1.791 1.978 2.165
 RSLT(I) : 88.626 95.423 106.221 118.069 128.051 133.039 137.834 142.164 147.150 148.696 150.173 150.076 152.342 154.293 154.683
 CALC(I) : 88.185 95.802 107.241 117.467 126.471 133.407 138.839 142.969 146.105 148.523 150.272 151.568 152.482 153.128 153.577

CURVE FIT PARAMETERS : X(1) = -15.282 REL L = 0.951 SUMSQ = 141.947
 XDIST(I) : 0.026 0.088 0.199 0.324 0.466 0.611 0.763 0.918 1.079 1.251 1.425 1.608 1.791 1.978 2.165
 RSLT(I) : -189.909-190.042-198.447-199.881-191.744-198.990-198.789-199.033-202.562-207.235-198.198-202.000-204.275-207.432-202.875
 CALC(I) : -191.465-192.410-193.942-195.464-196.975-198.299-199.484-200.519-201.425-202.236-202.921-203.517-204.013-204.427-204.768

CURVE FIT PARAMETERS : X(1) = -59.951 REL L = 0.742 SUMSQ = 734.618
 XDIST(I) : 0.026 0.088 0.199 0.324 0.466 0.611 0.763 0.918 1.079 1.251 1.425 1.608 1.791 1.978 2.165
 RSLT(I) : 47.494 64.552 64.920 55.797 43.937 37.482 28.392 22.630 18.873 13.950 11.617 5.507 11.477 11.559 11.796
 CALC(I) : 65.575 60.904 53.516 46.428 39.665 33.985 29.120 25.061 21.670 18.781 16.461 14.547 13.040 11.848 10.921

TESTID: RELAX.G
 TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11:30:34
 PROCESS DATE : 01-18-83 16:29:23
 COMMENT: 20,-3
 ALPHA = -3.078 GAMMA = 20.012 RHO = 0.0
 STEADY STATE : FX = -3.61 FY = 229.84 FZ = -266.27 MX = -243.41 MY = 43.56 MZ = -20.11

ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.377 @ FY = 182.12
 MX-RELAXATION L = 0.377 @ MX = -217.73
 MZ-RELAXATION L = 0.369 @ MZ = 2.06

CURVE FIT PARAMETERS : X(1) = 140.843 REL L = 0.344 SUMSQ = 19.924
 XDIST(I) : 0.025 0.072 0.153 0.244 0.348 0.453 0.573 0.685 0.810 0.949 1.094 1.248 1.408 1.581 1.760
 RSLT(I) : 100.112 115.922 138.376 158.836 176.804 192.436 204.653 212.499 217.178 221.943 224.650 225.945 227.056 226.961 229.156
 CALC(I) : 98.829 115.528 139.629 160.588 178.535 192.093 203.153 210.591 216.432 220.883 223.965 226.083 227.480 228.412 228.991

CURVE FIT PARAMETERS : X(1) = -73.977 REL L = 0.333 SUMSQ = 120.241
 XDIST(I) : 0.025 0.072 0.153 0.244 0.348 0.453 0.573 0.685 0.810 0.949 1.094 1.248 1.408 1.581 1.760
 RSLT(I) : -173.609 -188.005 -193.022 -209.363 -216.546 -222.503 -225.439 -236.907 -238.214 -244.042 -242.002 -245.240 -241.478 -244.476 -240.678
 CALC(I) : -174.760 -183.781 -196.721 -207.882 -217.350 -224.431 -230.145 -233.944 -236.894 -239.115 -240.630 -241.658 -242.325 -242.763 -243.030

CURVE FIT PARAMETERS : X(1) = -87.059 REL L = 0.300 SUMSQ = 1603.275
 XDIST(I) : 0.025 0.072 0.153 0.244 0.348 0.453 0.573 0.685 0.810 0.949 1.094 1.248 1.408 1.581 1.760
 RSLT(I) : 40.152 55.550 53.458 30.549 7.984 -9.186 -21.739 -23.206 -19.771 -23.890 -15.404 -16.332 -14.676 -18.816 -16.495
 CALC(I) : 60.013 48.412 32.115 18.452 7.225 -0.886 -7.195 -11.232 -14.247 -16.420 -17.835 -18.749 -19.312 -19.662 -19.864

TESTID: RELAX.G
 TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11:32: 3
 PROCESS DATE : 01-18-83 16:29:40
 COMMENT: 20,-5
 ALPHA = -5.068 GAMMA = 20.013 RHO = 0.0
 STEADY STATE : FX = -3.95 FY = 257.36 FZ = -266.30 MX = -258.80 MY = 41.89 MZ = -3.59
 ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.271 @ FY = 200.89
 MX-RELAXATION L = 0.350 @ MX = -231.31
 MZ-RELAXATION L = 0.272 @ MZ = 11.63

CURVE FIT PARAMETERS : X(1) = 169.595 REL L = 0.253 SUMSQ = 344.383
 XDIST(I) : 0.025 0.071 0.146 0.235 0.329 0.429 0.532 0.643 0.760 0.885 1.018 1.162 1.317 1.483 1.652
 RSLT(I) : 103.859 129.312 159.631 190.532 214.651 228.434 239.456 244.885 246.787 247.535 248.568 248.271 248.996 248.979 248.108
 CALC(I) : 103.666 129.455 162.021 190.434 211.213 226.271 236.721 244.052 248.997 252.249 254.348 255.652 256.437 256.882 257.116

CURVE FIT PARAMETERS : X(1) = -82.472 REL L = 0.338 SUMSQ = 182.563
 XDIST(I) : 0.025 0.071 0.146 0.235 0.329 0.429 0.532 0.643 0.760 0.885 1.018 1.162 1.317 1.483 1.652
 RSLT(I) : -184.063 -187.586 -206.429 -218.510 -225.750 -240.658 -245.632 -246.491 -244.821 -249.135 -253.719 -250.258 -256.925 -259.404 -263.927
 CALC(I) : -182.178 -191.999 -205.162 -217.618 -227.602 -235.572 -241.694 -246.475 -250.088 -252.770 -254.738 -256.141 -257.121 -257.774 -258.180

CURVE FIT PARAMETERS : X(1) = -63.266 REL L = 0.214 SUMSQ = 1213.899
 XDIST(I) : 0.025 0.071 0.146 0.235 0.329 0.429 0.532 0.643 0.760 0.885 1.018 1.162 1.317 1.483 1.652
 RSLT(I) : 37.788 51.606 48.611 20.006 -3.095 -3.281 -10.998 -3.239 3.324 0.591 -0.250 -2.705 -7.621 -2.556 -0.271
 CALC(I) : 52.716 41.716 28.408 17.460 9.967 4.904 1.640 -0.480 -1.796 -2.590 -3.056 -3.319 -3.461 -3.532 -3.566

TESTID: RELAX.G
 TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11:33:41
 PROCESS DATE : 01-18-83 16:29:54
 COMMENT: 30,1
 ALPHA = 0.908 GAMMA = 30.002 RHO = 0.0
 STEADY STATE : FX = -9.80 FY = 85.92 FZ = -266.50 MX = -281.61 MY = 40.25 MZ = 151.40
 ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.545 @ FY = 103.57
 MX-RELAXATION L = 0.283 @ MX = -289.30
 MZ-RELAXATION L = 0.106 @ MZ = 117.04

CURVE FIT PARAMETERS : X(1) = -44.858 REL L = 0.649 SUMSQ = 88.490
 XDIST(I) : 0.025 0.080 0.163 0.265 0.373 0.493 0.612 0.748 0.890 1.043 1.204 1.378 1.561 1.752 1.951
 RSLT(I) : 193.909 126.632 118.109 112.966 108.721 104.618 101.474 99.687 98.180 97.162 95.008 92.823 92.010 91.484 91.478
 CALC(I) : 129.107 125.596 120.817 115.741 111.148 106.882 103.391 100.085 97.299 94.906 92.929 91.280 89.961 88.931 88.132

CURVE FIT PARAMETERS : X(1) = 24.002 REL L = 0.309 SUMSQ = 70.139
 XD1ST(I) : 0.025 0.080 0.163 0.265 0.373 0.493 0.612 0.748 0.890 1.043 1.204 1.378 1.561 1.752 1.951
 RSLT(I) : -302.523-302.072-295.672-291.734-289.592-284.667-282.909-284.392-283.151-280.690-284.712-287.992-283.361-283.009-283.886
 CALC(I) : -303.773-300.156-295.772-291.789-288.772-286.462-284.918-283.739-282.953-282.426-282.093-281.884-281.760-281.689-281.650

CURVE FIT PARAMETERS : X(1) = 113.930 REL L = 0.104 SUMSQ = 369.645
 XD1ST(I) : 0.025 0.080 0.163 0.265 0.373 0.493 0.612 0.748 0.890 1.043 1.204 1.378 1.561 1.752 1.951
 RSLT(I) : 58.007 105.038 130.070 137.654 138.446 140.618 145.115 151.180 151.078 153.162 155.058 155.713 153.182 151.570 155.678
 CALC(I) : 61.510 98.523 127.715 142.543 148.291 150.425 151.089 151.317 151.380 151.396 151.400 151.401 151.401 151.401 151.401

TESTID: RELAX.G
 TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11:35:13
 PROCESS DATE : 01-18-83 16:30:07
 COMMENT: 30,0
 ALPHA = -0.092 GAMMA = 30.003 RHO = 0.0
 STEADY STATE : FX = -7.88 FY = 141.33 FZ = -266.52 MX = -300.96 MY = 42.76 MZ = 100.01

ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.701 \Rightarrow FY = 138.16
 MX-RELAXATION L = 0.037 \Rightarrow MX = -297.43
 MZ-RELAXATION L = 0.064 \Rightarrow MZ = 84.25

CURVE FIT PARAMETERS : X(1) = 7.912 REL L = 1.554 SUMSQ = 21.753
 XD1ST(I) : 0.025 0.072 0.137 0.216 0.303 0.402 0.509 0.623 0.748 0.872 1.013 1.155 1.301 1.450 1.602
 RSLT(I) : 132.707 133.968 134.396 133.901 135.550 134.500 133.802 136.805 138.875 138.900 138.256 136.948 136.486 137.265 137.537
 CALC(I) : 133.547 133.778 134.087 134.447 134.825 135.224 135.632 136.034 136.443 136.818 137.210 137.572 137.908 138.222 138.512

CURVE FIT PARAMETERS : X(1) = -4.873 REL L = ***** SUMSQ = 385.179
 XD1ST(I) : 0.025 0.072 0.137 0.216 0.303 0.402 0.509 0.623 0.748 0.872 1.013 1.155 1.301 1.450 1.602
 RSLT(I) : -291.359-301.185-300.016-295.131-302.684-304.250-294.430-293.526-302.909-296.779-292.378-296.153-293.096-285.408-291.933
 CALC(I) : -296.089-296.089-296.089-296.089-296.089-296.089-296.089-296.089-296.089-296.089-296.089-296.089-296.089-296.089-296.089

CURVE FIT PARAMETERS : X(1) = 97.686 REL L = 0.031 SUMSQ = 2000.546
 XD1ST(I) : 0.025 0.072 0.137 0.216 0.303 0.402 0.509 0.623 0.748 0.872 1.013 1.155 1.301 1.450 1.602
 RSLT(I) : 57.173 86.875 109.359 116.780 121.111 121.410 111.276 109.792 109.040 105.465 105.585 106.235 109.514 110.527 109.246
 CALC(I) : 56.677 90.579 98.878 99.927 100.008 100.013 100.013 100.013 100.013 100.013 100.013 100.013 100.013 100.013 100.013

TESTID: RELAX.G
 TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11:36:45
 PROCESS DATE : 01-18-83 16:30:21
 COMMENT: 30,-1
 ALPHA = -1.097 GAMMA = 30.004 RHO = 0.0
 STEADY STATE : FX = -6.03 FY = 190.48 FZ = -266.52 MX = -316.01 MY = 43.21 MZ = 54.04

ESTIMATE FROM 1.-EXP(-1)
 FY-RELAXATION L = 0.485 \Rightarrow FY = 170.02
 MX-RELAXATION L = 0.349 \Rightarrow MX = -309.90
 MZ-RELAXATION L = 0.027 \Rightarrow MZ = 52.41

CURVE FIT PARAMETERS : X(1) = 58.075 REL L = 0.447 SUMSQ = 70.990
 XD1ST(I) : 0.025 0.065 0.141 0.232 0.333 0.441 0.556 0.672 0.810 0.948 1.081 1.209 1.341 1.470 1.596
 RSLT(I) : 134.859 144.674 144.347 157.417 160.919 166.225 172.783 180.332 180.730 183.522 186.539 187.440 188.094 190.020 192.058
 CALC(I) : 135.578 140.311 148.108 155.883 162.892 168.819 173.735 177.570 181.001 183.509 185.313 186.594 187.588 188.315 188.845

CURVE FIT PARAMETERS : X(1) = -22.306 REL L = 0.376 SUMSQ = 182.072
 XD1ST(I) : 0.025 0.065 0.141 0.232 0.333 0.441 0.556 0.672 0.810 0.948 1.081 1.209 1.341 1.470 1.596
 RSLT(I) : -299.391-292.502-297.962-307.531-305.441-310.018-312.018-313.144-315.492-311.930-310.795-317.748-308.740-315.629-322.047
 CALC(I) : -295.143-297.262-300.671-303.954-306.797-309.097-310.918-312.271-313.419-314.211-314.750-315.111-315.377-315.561-315.688

TESTID: RELAX.G

TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11:33:16
 PROCESS DATE : 01-18-83 16:31:03
 COMMENT: 30,-3
 ALPHA = -3.093 GAMMA = 30.005 RHO = 0.0
 STEADY STATE : FX = -4.43 FY = 247.45 FZ = -266.35 MX = -348.88 MY = 42.58 MZ = 17.27
 ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.323 a FY = 208.32
 MX-RELAXATION L = 0.188 a MX = -326.62
 MZ-RELAXATION L = 0.625 a MZ = 33.60

CURVE FIT PARAMETERS : X(1) = 113.518 REL L = 0.332 SUMSQ = 253.404
 XDIST(I) : 0.025 0.083 0.175 0.287 0.398 0.523 0.648 0.780 0.912 1.056 1.206 1.362 1.530 1.707 1.891
 RSLT(I) : 141.065 158.841 179.622 200.989 215.831 227.533 233.629 235.954 237.955 237.468 238.681 239.631 240.120 240.777 240.099
 CALC(I) : 142.051 159.005 180.542 199.661 213.240 224.019 231.377 236.655 240.197 242.745 244.466 245.586 246.326 246.793 247.074

CURVE FIT PARAMETERS : X(1) = -49.604 REL L = 0.597 SUMSQ = 593.536
 XDIST(I) : 0.025 0.083 0.175 0.287 0.398 0.523 0.648 0.780 0.912 1.056 1.206 1.362 1.530 1.707 1.891
 RSLT(I) : -288.356 -308.110 -323.740 -319.428 -322.086 -338.734 -332.336 -333.869 -337.079 -338.245 -336.137 -342.686 -338.031 -337.697 -347.398
 CALC(I) : -301.282 -305.701 -311.903 -318.209 -323.408 -328.239 -332.139 -335.460 -338.120 -340.420 -342.310 -343.821 -345.059 -346.042 -346.795

CURVE FIT PARAMETERS : X(1) = -76.277 REL L = 0.551 SUMSQ = 2768.592
 XDIST(I) : 0.025 0.083 0.175 0.287 0.398 0.523 0.648 0.780 0.912 1.056 1.206 1.362 1.530 1.707 1.891
 RSLT(I) : 61.664 101.138 94.989 79.049 38.460 43.029 31.177 25.574 25.715 23.815 30.280 28.296 26.593 32.598 31.181
 CALC(I) : 90.218 82.905 72.750 62.571 54.310 46.760 40.772 35.764 31.827 28.489 25.801 23.699 22.014 20.710 19.735

TESTID: RELAX.G

TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11:39:48
 PROCESS DATE : 01-18-83 16:31:18
 COMMENT: 30,-5
 ALPHA = -5.092 GAMMA = 30.013 RHO = 0.0
 STEADY STATE : FX = -4.61 FY = 261.40 FZ = -266.45 MX = -357.50 MY = 39.60 MZ = 26.07
 ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.215 a FY = 220.02
 MX-RELAXATION L = 0.230 a MX = -336.71
 MZ-RELAXATION L = 0.269 a MZ = 38.92

CURVE FIT PARAMETERS : X(1) = 112.481 REL L = 0.215 SUMSQ = 1189.952
 XDIST(I) : 0.026 0.082 0.164 0.253 0.344 0.437 0.534 0.633 0.737 0.846 0.972 1.096 1.237 1.385 1.543
 RSLT(I) : 148.916 177.255 203.275 229.988 244.811 252.763 259.275 261.718 265.494 266.849 269.100 270.962 274.131 273.534 272.872
 CALC(I) : 161.915 184.506 208.801 226.659 238.696 246.669 252.014 255.463 257.739 259.198 260.169 260.707 261.038 261.217 261.311

CURVE FIT PARAMETERS : X(1) = -57.389 REL L = 0.230 SUMSQ = 398.259
 XDIST(I) : 0.026 0.082 0.164 0.253 0.344 0.437 0.534 0.633 0.737 0.846 0.972 1.096 1.237 1.385 1.543
 RSLT(I) : -300.990 -321.127 -328.659 -341.064 -343.301 -355.340 -358.837 -352.486 -353.815 -360.431 -360.221 -362.743 -369.946 -362.135 -359.113
 CALC(I) : -306.340 -317.284 -329.298 -338.360 -344.639 -348.917 -351.868 -353.830 -355.166 -356.050 -356.659 -357.010 -357.235 -357.362 -357.432

CURVE FIT PARAMETERS : X(1) = -50.499 REL L = 0.455 SUMSQ = 2132.423
 XDIST(I) : 0.026 0.082 0.164 0.253 0.344 0.437 0.534 0.633 0.737 0.846 0.972 1.096 1.237 1.385 1.543
 RSLT(I) : 60.983 85.566 71.694 45.819 37.844 25.431 29.825 23.836 26.112 34.485 37.839 39.856 37.780 27.381 44.698
 CALC(I) : 73.726 68.267 61.339 55.065 49.787 45.404 41.697 38.657 36.085 33.946 32.052 30.627 29.415 28.484 27.777

TESTID: RELAX.G

TIREID: T1
 INFLATION PRESSURE : 25.
 TEST DATE : 12/10/82 11:41:40

PROCESS DATE : 01-18-83 16:31:31

COMMENT: 40,-5

ALPHA = -5.127 GAMMA = 40.020 RHO = 0.0

STEADY STATE : FX = -5.49 FY = 271.43 FZ = -266.40 MX = -457.49 MY = 39.50 MZ = 45.30

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.210 @ FY = 241.48

MX-RELAXATION L = 0.217 @ MX = -441.89

MZ-RELAXATION L = 0.423 @ MZ = 61.42

CURVE FIT PARAMETERS : X(1) = 79.923 REL L = 0.296 SUMSQ = 2127.409

XDIST(I): 0.025 0.082 0.177 0.286 0.411 0.536 0.661 0.786 0.897 1.011 1.122 1.230 1.338 1.448 1.560

RSLT(I) : 190.013 209.013 235.856 254.226 258.473 258.677 258.952 261.322 258.751 254.780 252.964 254.161 253.258 254.036 252.430

CALC(I) : 197.876 210.943 227.527 241.058 251.511 258.358 262.852 265.816 267.565 268.802 269.624 270.175 270.559 270.829 271.018

CURVE FIT PARAMETERS : X(1) = -35.852 REL L = 0.378 SUMSQ = 279.198

XDIST(I): 0.025 0.082 0.177 0.286 0.411 0.536 0.661 0.786 0.897 1.011 1.122 1.230 1.338 1.448 1.560

RSLT(I) : -415.073 -437.981 -433.356 -446.778 -446.359 -446.537 -452.099 -451.428 -452.567 -452.360 -450.978 -456.398 -450.783 -455.453 -457.116

CALC(I) : -423.896 -428.664 -435.057 -440.676 -445.404 -448.798 -451.240 -453.005 -454.142 -455.016 -455.646 -456.104 -456.450 -456.714 -456.913

CURVE FIT PARAMETERS : X(1) = -74.254 REL L = 0.328 SUMSQ = 1928.016

XDIST(I): 0.025 0.082 0.177 0.286 0.411 0.536 0.661 0.786 0.897 1.011 1.122 1.230 1.338 1.448 1.560

RSLT(I) : 89.127 123.907 103.504 87.480 62.784 44.600 43.640 47.306 43.988 47.295 44.972 49.438 53.774 48.960 44.366

CALC(I) : 114.187 103.042 88.543 76.311 66.493 59.791 55.206 52.056 50.121 48.702 47.723 47.043 46.550 46.193 45.933

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:43:36

PROCESS DATE : 01-18-83 16:31:45

COMMENT: 40,-3

ALPHA = -3.114 GAMMA = 40.012 RHO = 0.0

STEADY STATE : FX = -6.31 FY = 247.48 FZ = -266.62 MX = -448.52 MY = 39.81 MZ = 60.94

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.285 @ FY = 220.38

MX-RELAXATION L = 0.084 @ MX = -433.36

MZ-RELAXATION L = 0.584 @ MZ = 70.11

CURVE FIT PARAMETERS : X(1) = 84.854 REL L = 0.215 SUMSQ = 714.619

XDIST(I): 0.025 0.077 0.164 0.274 0.399 0.528 0.671 0.820 0.974 1.130 1.291 1.462 1.632 1.803 1.969

RSLT(I) : 173.812 188.891 203.755 218.389 235.982 246.007 249.251 248.473 246.067 248.573 252.552 252.322 257.969 259.314 264.294

CALC(I) : 171.882 188.044 207.936 223.683 234.188 240.187 243.736 245.603 246.563 247.039 247.274 247.389 247.441 247.465 247.475

CURVE FIT PARAMETERS : X(1) = -57.690 REL L = 0.072 SUMSQ = 480.302

XDIST(I): 0.025 0.077 0.164 0.274 0.399 0.528 0.671 0.820 0.974 1.130 1.291 1.462 1.632 1.803 1.969

RSLT(I) : -407.312 -430.743 -435.036 -460.281 -445.604 -451.801 -447.851 -444.255 -443.042 -447.256 -449.848 -439.960 -452.979 -447.994 -457.683

CALC(I) : -407.659 -428.602 -442.625 -447.229 -448.295 -448.485 -448.518 -448.522 -448.523 -448.523 -448.523 -448.523 -448.523 -448.523 -448.523

CURVE FIT PARAMETERS : X(1) = -73.194 REL L = 0.601 SUMSQ = 5186.684

XDIST(I): 0.025 0.077 0.164 0.274 0.399 0.528 0.671 0.820 0.974 1.130 1.291 1.462 1.632 1.803 1.969

RSLT(I) : 85.879 140.100 152.937 132.663 98.158 84.184 65.285 67.039 67.142 73.039 82.794 68.650 65.307 53.784 64.094

CALC(I) : 131.163 125.365 116.614 107.353 98.614 91.326 84.874 79.636 75.412 72.091 69.469 67.359 65.771 64.575 63.698

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:45:27

PROCESS DATE : 01-18-83 16:31:55

COMMENT: 40,-1

ALPHA = -1.090 GAMMA = 40.009 RHO = 0.0

STEADY STATE : FX = -8.97 FY = 206.31 FZ = -266.62 MX = -438.29 MY = 43.43 MZ = 108.50

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.576 @ FY = 193.03
MX-RELAXATION L = 0.038 @ MX = -425.00
MZ-RELAXATION L = 0.034 @ MZ = 93.70

CURVE FIT PARAMETERS : X(1) = 33.354 REL L = 0.807 SUMSQ = 333.162
XDIST(I): 0.025 0.079 0.175 0.298 0.436 0.581 0.735 0.893 1.059 1.229 1.406 1.585 1.762 1.939 2.110
RSLT(I) : 170.211 176.956 174.790 185.745 190.702 193.142 197.059 198.987 201.361 197.762 198.791 200.866 196.571 195.529 193.007
CALC(I) : 173.952 176.065 179.461 183.263 186.882 190.072 192.887 195.273 197.323 199.034 200.463 201.624 202.550 203.288 203.866

CURVE FIT PARAMETERS : X(1) = -49.662 REL L = 0.075 SUMSQ = 363.165
XDIST(I): 0.025 0.079 0.175 0.298 0.436 0.581 0.735 0.893 1.059 1.229 1.406 1.585 1.762 1.939 2.110
RSLT(I) : -402.179 -421.484 -434.614 -432.021 -439.235 -435.745 -435.855 -433.527 -437.145 -430.221 -428.117 -432.600 -431.671 -431.328 -436.723
CALC(I) : -402.455 -420.952 -433.471 -437.355 -438.140 -438.267 -438.286 -438.288 -438.288 -438.289 -438.289 -438.289 -438.289 -438.289 -438.289

CURVE FIT PARAMETERS : X(1) = 874.240 REL L = 0.008 SUMSQ = 9674.367
XDIST(I): 0.025 0.079 0.175 0.298 0.436 0.581 0.735 0.893 1.059 1.229 1.406 1.585 1.762 1.939 2.110
RSLT(I) : 68.271 142.295 168.883 157.037 142.174 129.552 123.741 111.708 111.803 103.961 117.933 123.167 114.827 121.961 120.664
CALC(I) : 68.956 108.455 108.495 108.495 108.495 108.495 108.495 108.495 108.495 108.495 108.495 108.495 108.495 108.495 108.495

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:47:20

PROCESS DATE : 01-18-83 16:32:07

COMMENT: 40,0

ALPHA = -0.133 GAMMA = 40.003 RHO = 0.0

STEADY STATE : FX = -11.08 FY = 166.83 FZ = -266.76 MX = -425.25 MY = 40.93 MZ = 152.40

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.425 @ FY = 165.70
MX-RELAXATION L = 0.142 @ MX = -423.53
MZ-RELAXATION L = 0.050 @ MZ = 123.98

CURVE FIT PARAMETERS : X(1) = 4.974 REL L = 0.287 SUMSQ = 133.136
XDIST(I): 0.025 0.074 0.174 0.299 0.433 0.576 0.725 0.880 1.036 1.194 1.357 1.519 1.677 1.833 1.986
RSLT(I) : 163.760 162.094 163.628 163.077 165.927 165.920 168.469 168.598 165.777 167.031 167.492 171.219 172.595 171.772 173.063
CALC(I) : 162.273 162.994 164.117 165.079 165.733 166.164 166.435 166.601 166.698 166.755 166.788 166.807 166.818 166.824 166.827

CURVE FIT PARAMETERS : X(1) = -4.132 REL L = 0.678 SUMSQ = 220.353
XDIST(I): 0.025 0.074 0.174 0.299 0.433 0.576 0.725 0.880 1.036 1.194 1.357 1.519 1.677 1.833 1.986
RSLT(I) : -420.577 -421.160 -427.936 -420.580 -419.751 -417.640 -430.454 -420.417 -423.639 -427.031 -424.976 -427.832 -424.901 -430.994 -419.911
CALC(I) : -421.270 -421.550 -422.055 -422.595 -423.072 -423.485 -423.835 -424.125 -424.356 -424.543 -424.694 -424.813 -424.905 -424.976 -425.032

CURVE FIT PARAMETERS : X(1) = 308.769 REL L = 0.018 SUMSQ = 1435.203
XDIST(I): 0.025 0.074 0.174 0.299 0.433 0.576 0.725 0.880 1.036 1.194 1.357 1.519 1.677 1.833 1.986
RSLT(I) : 75.135 147.092 176.984 164.717 164.655 156.434 141.753 153.991 162.377 160.945 158.987 164.322 158.068 150.963 154.328
CALC(I) : 75.123 147.393 152.381 152.402 152.402 152.402 152.402 152.402 152.402 152.402 152.402 152.402 152.402 152.402 152.402

TESTID: RELAX.G

TIREID: T1

INFLATION PRESSURE : 25.

TEST DATE : 12/10/82 11:49:39

PROCESS DATE : 01-18-83 16:32:19

COMMENT: 40,1

ALPHA = 0.859 GAMMA = 39.995 RHO = 0.0

STEADY STATE : FX = -13.28 FY = 124.43 FZ = -266.66 MX = -406.37 MY = 42.73 MZ = 192.74

ESTIMATE FROM 1.-EXP(-1)

FY-RELAXATION L = 0.344 @ FY = 138.13
MX-RELAXATION L = 0.526 @ MX = -410.37
MZ-RELAXATION L = 0.083 @ MZ = 152.60

CURVE FIT PARAMETERS : X(1) = -38.893 REL L = 0.382 SUMSQ = 86.225
 XDIST(I): 0.025 0.083 0.176 0.286 0.410 0.548 0.689 0.839 0.997 1.164 1.338 1.517 1.704 1.896 2.084
 RSLT(I) : 161.668 158.315 145.471 139.703 138.067 133.868 133.743 131.067 128.510 125.683 128.357 122.043 125.831 120.731 121.943
 CALC(I) : 160.902 155.753 148.994 142.862 137.740 133.702 130.857 128.762 127.303 126.287 125.606 125.168 124.883 124.705 124.599

CURVE FIT PARAMETERS : X(1) = 11.187 REL L = 0.527 SUMSQ = 196.847
 XDIST(I): 0.025 0.083 0.176 0.286 0.410 0.548 0.689 0.839 0.997 1.164 1.338 1.517 1.704 1.896 2.084
 RSLT(I) : -417.234 -419.483 -420.181 -418.665 -416.161 -409.222 -407.490 -405.464 -401.488 -405.184 -407.299 -403.925 -405.332 -410.967 -405.394
 CALC(I) : -417.047 -415.931 -414.386 -412.879 -411.510 -410.324 -409.401 -408.647 -408.060 -407.601 -407.254 -407.000 -406.812 -406.677 -406.585

CURVE FIT PARAMETERS : X(1) = 178.662 REL L = 0.054 SUMSQ = 437.234
 XDIST(I): 0.025 0.083 0.176 0.286 0.410 0.548 0.689 0.839 0.997 1.164 1.338 1.517 1.704 1.896 2.084
 RSLT(I) : 83.633 152.545 188.614 191.452 188.496 188.900 181.784 184.083 182.436 190.852 197.199 190.471 193.223 198.152 197.071
 CALC(I) : 79.542 154.287 185.882 191.844 192.649 192.731 192.737 192.738 192.738 192.738 192.738 192.738 192.738 192.738 192.738

APPENDIX B

PROCESSING RESULTS OF TESTS 2 AND 3 FOR TIRE T3

All comments indicate:

1. Beginning and ending tire temperature in °C (e.g.,
T = 23, 24)
2. Nominal Test Velocity (e.g., V = 40)

Results Printed

SEG - Test Segment Number
REVS - Number of Tire Revolutions
TSTRT - Beginning Time for Averaging
TEND - Ending Time for Averaging
VELOCITY - SS Belt Velocity in mph
ALPHA - SS Slip Angle in degs
GAMMA - SS Inclination Angle in degs
RHO - SS Path Curvature 1/ft
FX - SS Rolling Resistance in lbs
FY - SS Lateral Force in lbs
FZ - SS Vertical Load in lbs
MX - SS Overturning Moment in in-lbs
MY - SS Rolling Resistance Moment in in-lbs
MZ - SS Aligning Moment in in-lbs
OMEGA - Average Rotational Velocity in rad/sec

TESTID: ASTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 10:42:11
 PROCESS DATE : 01-17-83 15:54:38
 COMMENT: T=23,24 V=40
 SEG REVS TSRT T-END VELOCITY

ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
0.966	0.015	0.150E-05	-10.60	-71.12	-351.67	33.61	120.05	52.63	35.12
-0.042	0.014	0.123E-05	-10.28	10.37	-351.90	-0.34	116.10	-5.39	35.16
-1.043	0.002	-0.773E-06	-9.77	87.61	-351.94	-28.71	109.92	-60.59	35.18

TESTID: ASTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 10:45:25
 PROCESS DATE : 01-17-83 15:55:04
 COMMENT: T=23,27 V=40
 SEG REVS TSRT T-END VELOCITY

ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
0.939	0.003	-0.923E-06	-10.39	182.62	-351.47	-73.59	117.28	-62.38	34.96
-5.041	0.005	0.810E-06	-10.04	233.40	-351.38	-107.25	112.89	-36.94	34.76

TESTID: GSTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 10:49:3
 PROCESS DATE : 01-17-83 15:55:43
 COMMENT: T=23,24 V=40
 SEG REVS TSRT T-END VELOCITY

ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
-0.058	10.007	-0.351E-05	-10.88	78.83	-351.46	-136.25	117.12	48.46	35.25
-0.052	20.004	0.303E-06	-12.10	137.52	-351.13	-267.60	111.48	102.13	35.51

TESTID: GSTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 10:51:21
 PROCESS DATE : 01-17-83 15:56:05
 COMMENT: T=23,25 V=40
 SEG REVS TSRT T-END VELOCITY

ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
-0.078	30.010	0.304E-05	-14.96	193.66	-351.36	-414.04	111.92	161.46	35.83
-0.112	40.002	0.125E-04	-20.25	238.31	-351.62	-602.15	102.82	265.15	36.38

TESTID: ASTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 10:53:24
 PROCESS DATE : 01-17-83 15:56:33
 COMMENT: T=25,27 V=80
 SEG REVS TSRT T-END VELOCITY

ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
0.941	0.006	0.331E-07	-11.49	-72.09	-351.60	30.05	131.58	47.90	70.05
-0.034	0.010	0.254E-07	-11.23	4.34	-351.69	-2.95	128.50	-6.30	70.06
-1.034	0.001	0.583E-07	-10.99	78.59	-351.43	-28.16	125.51	-59.84	70.07

TESTID: ASTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 32.

TEST DATE : 12/21/82 10:56:33
 PROCESS DATE : 01-17-83 15:56:53
 COMMENT: T=24,30 V=80
 SEG REVS TSIRT T-END
 VELOCITY
 1 8 0.400 1.120 49.31 -3.042
 2 8 1.900 2.620 49.25 -5.043

ALPHA
 GAMMA
 RHO
 FZ
 FY
 FX
 MX
 MY
 MZ
 OMEGA
 0.015 0.474E-06 -13.15 171.91 -351.26 -70.17 151.94 -68.36 69.81
 0.011 -0.531E-07 -13.45 220.32 -351.16 -102.78 155.32 -41.17 69.50

TESTID: GSTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 11: 0:36
 PROCESS DATE : 01-17-83 15:57:24
 COMMENT: T=24,27 V=80
 SEG REVS TSIRT T-END
 VELOCITY
 1 8 0.448 1.164 49.34 -0.055
 2 8 2.848 3.556 49.33 -0.066

ALPHA
 GAMMA
 RHO
 FZ
 FY
 FX
 MX
 MY
 MZ
 OMEGA
 10.003 0.353E-06 -13.17 74.02 -351.44 -137.99 145.92 51.63 70.19
 20.003 0.282E-05 -15.02 133.62 -351.00 -262.46 148.64 108.49 70.65

TESTID: GSTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 11: 3:22
 PROCESS DATE : 01-17-83 15:57:50
 COMMENT: T=26,27 V=80
 SEG REVS TSIRT T-END
 VELOCITY
 1 9 0.448 1.240 49.26 -0.069
 2 9 2.848 3.628 49.27 -0.106

ALPHA
 GAMMA
 RHO
 FZ
 FY
 FX
 MX
 MY
 MZ
 OMEGA
 30.000 0.158E-05 -17.28 193.68 -351.40 -405.53 143.20 166.77 71.33
 40.000 0.141E-06 -22.25 237.11 -351.65 -578.79 132.00 271.73 72.30

06

TESTID: ASTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 11: 7:16
 PROCESS DATE : 01-17-83 15:58:38
 COMMENT: T=26,30 V=120
 SEG REVS TSIRT T-END
 VELOCITY
 1 13 0.400 1.180 74.18 0.959
 2 13 1.900 2.680 74.16 -0.030
 3 13 3.400 4.184 74.11 -1.032

ALPHA
 GAMMA
 RHO
 FZ
 FY
 FX
 MX
 MY
 MZ
 OMEGA
 0.006 0.414E-06 -15.34 -75.45 -351.66 20.28 180.42 43.81 104.27
 0.007 0.406E-07 -15.09 -1.31 -351.27 -11.12 17.41 -6.42 104.23
 0.002 -0.596E-06 -15.07 68.43 -351.35 -31.02 177.08 -57.26 104.13

TESTID: ASTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 11:12:32
 PROCESS DATE : 01-17-83 15:58:59
 COMMENT: T=26,33 V=120
 SEG REVS TSIRT T-END
 VELOCITY
 1 13 0.400 1.184 74.18 0.959
 2 13 1.900 2.688 74.03 -5.056

ALPHA
 GAMMA
 RHO
 FZ
 FY
 FX
 MX
 MY
 MZ
 OMEGA
 -0.005 0.170E-06 -14.57 154.58 -351.09 -77.96 170.76 -71.97 104.02
 -0.000 -0.265E-07 -15.70 212.19 -351.26 -111.58 184.52 -65.72 103.63

TESTID: GSTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 32.
 TEST DATE : 12/21/82 11:18:49
 PROCESS DATE : 01-17-83 15:59:21
 COMMENT: T=24,30 V=120
 SEG REVS TSIRT T-END
 VELOCITY
 1 13 0.400 1.184 74.18 0.959
 2 13 1.900 2.688 74.03 -5.056

ALPHA
 GAMMA
 RHO
 FZ
 FY
 FX
 MX
 MY
 MZ
 OMEGA
 -0.005 0.170E-06 -14.57 154.58 -351.09 -77.96 170.76 -71.97 104.02
 -0.000 -0.265E-07 -15.70 212.19 -351.26 -111.58 184.52 -65.72 103.63

1	13	0.448	1.228	74.08	-0.053	10.003	-0.368E-06	-13.27	69.80	-351.67	-152.37	149.04	48.32	104.42
2	13	2.848	3.624	74.08	-0.105	19.852	0.405E-05	-10.78	125.31	-351.23	-278.28	97.73	99.87	104.99

TESTID: GSTEP2.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 11:26:33
PROCESS DATE : 01-17-83 15:59:53
COMMENT: T=25.28 V=120
SEG REVS TSTRT T-END VELOCITY

1	13	0.448	1.216	73.94	-0.075	29.996	0.140E-05	-16.71	182.60	-351.51	-406.79	143.04	155.14	105.96
2	13	2.848	3.608	74.14	-0.124	40.001	0.303E-05	-20.92	230.31	-351.58	-562.95	130.13	248.07	107.30

TESTID: ASTEP1.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 11:32:56
PROCESS DATE : 01-17-83 16:00:31
COMMENT: T=22.26 V=40
SEG REVS TSTRT T-END VELOCITY

1	4	0.400	1.112	24.79	0.965	0.002	0.222E-05	-9.43	-74.92	-351.10	2.63	105.82	50.35	35.13
2	4	1.900	2.612	24.84	-0.037	0.003	0.176E-05	-9.32	1.66	-351.34	-30.87	104.46	-4.65	35.20
3	4	3.400	4.116	24.72	-1.039	0.001	0.101E-05	-8.97	73.75	-351.22	-54.82	100.16	-56.41	35.00

TESTID: ASTEP2.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 11:36:41
PROCESS DATE : 01-17-83 16:01:37
COMMENT: T=26.28 V=40
SEG REVS TSTRT T-END VELOCITY

1	4	0.400	1.120	24.74	-3.037	-0.001	-0.470E-05	-9.07	160.20	-351.07	-103.58	101.28	-65.43	34.83
2	4	1.900	2.624	24.50	-5.041	-0.003	-0.788E-06	-9.96	221.57	-351.29	-139.07	112.08	-68.82	34.52

TESTID: GSTEP1.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 11:40:00
PROCESS DATE : 01-17-83 16:02:06
COMMENT: T=24.26 V=40
SEG REVS TSTRT T-END VELOCITY

1	4	0.448	1.160	24.58	-0.057	10.007	0.347E-05	-9.91	68.86	-351.00	-171.39	105.70	45.53	35.24
2	4	2.848	3.556	24.65	-0.072	20.006	-0.115E-05	-10.96	124.97	-351.01	-301.94	101.02	90.33	35.42

TESTID: GSTEP2.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 11:41:40
PROCESS DATE : 01-17-83 16:02:40
COMMENT: T=26.26 V=40
SEG REVS TSTRT T-END VELOCITY

1	4	0.448	1.148	24.65	-0.085	30.000	-0.767E-05	-12.95	182.02	-351.05	-448.30	96.08	138.86	35.81
2	4	2.848	3.536	24.71	-0.120	40.002	-0.299E-05	-17.81	237.93	-351.60	-641.61	91.76	229.89	36.48

TESTID: ASTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 11:43:41
 PROCESS DATE : 01-17-83 16:03:31
 COMMENT: T=26.28 V=80
 SEG REVS TSTRT T-END
 VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA	
1	0.400	1.116	49.37	0.956	-12.25	-76.16	-351.40	-10.13	141.09	45.45	69.91
2	1.900	2.616	49.40	-0.055	-12.25	0.79	-351.35	-36.53	141.22	-6.48	69.91
3	3.400	4.116	49.55	-1.056	-12.22	69.93	-351.02	-64.78	140.86	-53.57	69.98

TESTID: ASTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 11:47:16
 PROCESS DATE : 01-17-83 16:04:15
 COMMENT: T=25.30 V=80
 SEG REVS TSTRT T-END
 VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA	
1	0.400	1.116	49.56	-3.049	-12.27	153.07	-350.93	-102.70	141.28	-61.62	69.95
2	1.900	2.620	49.36	-5.054	-12.93	220.33	-351.05	-137.43	149.28	-71.99	69.63

TESTID: GSTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 11:50:26
 PROCESS DATE : 01-17-83 16:05:09
 COMMENT: T=26.28 V=80
 SEG REVS TSTRT T-END
 VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA	
1	0.448	1.164	49.40	-0.046	-12.76	66.43	-350.98	-174.61	141.34	50.37	70.18
2	2.848	3.560	49.30	-0.064	-13.93	122.39	-350.98	-299.12	136.86	101.60	70.56

TESTID: GSTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 11:53:53
 PROCESS DATE : 01-17-83 16:05:43
 COMMENT: T=25.27 V=80
 SEG REVS TSTRT T-END
 VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA	
1	0.448	1.236	49.58	-0.096	-14.80	183.74	-350.87	-441.02	119.43	146.40	71.51
2	2.848	3.628	49.36	-0.134	-19.08	237.74	-351.23	-616.60	110.42	234.83	72.35

TESTID: ASTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 11:55:38
 PROCESS DATE : 01-17-83 16:06:34
 COMMENT: T=27.30 V=120
 SEG REVS TSTRT T-END
 VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA	
1	0.400	1.184	74.19	0.952	-12.09	-76.91	-350.82	-15.28	140.11	40.80	104.15
2	1.900	2.684	74.19	-0.051	-11.95	-4.16	-350.81	-42.84	138.44	-6.60	104.16
3	3.400	4.184	74.17	-1.054	-11.64	61.27	-350.51	-64.87	134.69	-51.79	104.08

TESTID: ASTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 34.25

TEST DATE : 12/21/82 12: 0:54
 PROCESS DATE : 01-17-83 16:06:52
 COMMENT: T=26.33 V=120

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	13	0.400	1.184	74.14	-3.056	-0.006	-0.130E-07	-14.42	147.88	-350.73	-111.00	169.09	-72.33	103.87
2	13	1.900	2.688	74.02	-5.049	-0.002	0.153E-07	-15.71	217.28	-350.41	-142.21	184.79	-79.24	103.49

TESTID: GSTEP1.G

TIREID: T3

INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 13:37:43
 PROCESS DATE : 01-17-83 16:07:24
 COMMENT: T=24.29 V=120

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	13	0.448	1.228	73.62	-0.052	10.009	-0.548E-06	-14.38	61.30	-352.75	-122.50	163.54	47.10	104.38
2	13	2.848	3.624	73.57	-0.054	20.000	0.233E-06	-15.23	117.02	-352.56	-238.38	155.74	100.33	104.93

TESTID: GSTEP2.G

TIREID: T3

INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 13:42: 1
 PROCESS DATE : 01-17-83 16:08:07
 COMMENT: T=25.27 V=120

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	13	0.448	1.216	73.53	-0.091	30.003	-0.196E-05	-15.55	180.67	-352.04	-372.63	132.86	144.13	106.09
2	13	2.848	3.608	73.95	-0.102	40.001	0.304E-06	-19.32	234.38	-352.25	-532.56	119.38	230.75	107.31

TESTID: ASTEP1.G

TIREID: T3

INFLATION PRESSURE : 37.
 TEST DATE : 12/21/82 13:47:20
 PROCESS DATE : 01-17-83 16:08:35
 COMMENT: T=27.28 V=40

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	4	0.400	1.116	24.19	0.960	0.007	0.296E-06	-8.88	-78.51	-351.71	53.72	99.17	45.12	34.94
2	4	1.900	2.620	24.08	-0.041	0.005	-0.247E-06	-8.86	-4.55	-351.48	17.42	98.99	-6.69	34.84
3	4	3.400	4.120	24.18	-1.046	0.004	-0.190E-06	-8.46	65.80	-351.72	-10.99	94.05	-55.47	34.80

TESTID: ASTEP2.G

TIREID: T3

INFLATION PRESSURE : 37.
 TEST DATE : 12/21/82 13:51: 1
 PROCESS DATE : 01-17-83 16:08:52
 COMMENT: T=24.27 V=40

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	4	0.400	1.128	23.92	-3.046	0.005	0.137E-05	-9.14	171.16	-351.64	-66.16	102.39	-83.90	34.41
2	4	1.900	2.628	23.46	-5.044	0.005	-0.123E-05	-9.84	242.23	-351.32	-113.57	110.73	-76.57	34.35

TESTID: GSTEP1.G

TIREID: T3

INFLATION PRESSURE : 37.
 TEST DATE : 12/21/82 13:54.10
 PROCESS DATE : 01-17-83 16:09:25
 COMMENT: T=24.26 V=40

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	4	0.400	1.128	23.92	-3.046	0.005	0.137E-05	-9.14	171.16	-351.64	-66.16	102.39	-83.90	34.41
2	4	1.900	2.628	23.46	-5.044	0.005	-0.123E-05	-9.84	242.23	-351.32	-113.57	110.73	-76.57	34.35

1	4	0.448	1.160	-0.049	10.002	-0.151E-05	60.08	-351.49	-120.67	98.85	44.06	35.17
2	4	2.848	3.556	-0.049	20.005	-0.277E-05	115.08	-351.30	-254.41	94.20	87.09	35.44
TESTID: GSTEP2.G												
TIREID: T3												
INFLATION PRESSURE : 37.												
TEST DATE : 12/21/82 13:56:13												
PROCESS DATE : 01-17-83 16:10:02												
COMMENT: T=26.26 V=40												
SEG REVS TSTRT T-END VELOCITY												
1	4	0.448	1.156	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
2	4	2.848	3.548	-0.068	30.004	0.190E-04	178.10	-351.48	-406.08	95.02	134.98	35.31
				-0.102	40.002	0.353E-04	239.67	-351.55	-597.23	86.02	214.86	35.87
TESTID: ASTEP1.G												
TIREID: T3												
INFLATION PRESSURE : 37.												
TEST DATE : 12/21/82 13:58:59												
PROCESS DATE : 01-17-83 16:10:22												
COMMENT: T=26.28 V=80												
SEG REVS TSTRT T-END VELOCITY												
1	8	0.400	1.124	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
2	8	1.900	2.624	0.967	0.000	-0.365E-06	-82.18	-351.36	47.81	130.01	45.26	69.12
3	8	3.400	4.124	-0.040	0.002	0.189E-06	-6.45	-351.45	17.40	132.15	-4.67	69.13
				-1.042	0.005	0.717E-08	64.79	-351.61	-13.18	138.62	-53.63	69.26
TESTID: ASTEP2.G												
TIREID: T3												
INFLATION PRESSURE : 37.												
TEST DATE : 12/21/82 14: 2: 3												
PROCESS DATE : 01-17-83 16:10:47												
COMMENT: T=26.31 V=80												
SEG REVS TSTRT T-END VELOCITY												
1	8	0.400	1.120	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
2	8	1.900	2.624	-3.037	0.001	-0.131E-05	169.06	-351.17	-66.02	127.17	-81.70	69.60
				-5.035	0.004	0.866E-07	239.50	-351.24	-104.99	140.47	-74.58	69.36
TESTID: GSTEP1.G												
TIREID: T3												
INFLATION PRESSURE : 37.												
TEST DATE : 12/21/82 14: 5:29												
PROCESS DATE : 01-17-83 16:11:03												
COMMENT: T=26.28 V=80												
SEG REVS TSTRT T-END VELOCITY												
1	8	0.448	1.164	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
2	8	2.848	3.560	-0.045	9.999	-0.492E-06	60.06	-351.39	-120.67	135.17	49.42	69.96
				-0.059	20.008	-0.447E-06	115.80	-351.16	-246.08	122.57	96.06	70.39
TESTID: GSTEP2.G												
TIREID: T3												
INFLATION PRESSURE : 37.												
TEST DATE : 12/21/82 14: 8: 4												
PROCESS DATE : 01-17-83 16:11:13												
COMMENT: T=25.27 V=80												
SEG REVS TSTRT T-END VELOCITY												
1	9	0.448	1.240	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
2	9	2.848	3.632	-0.088	30.003	-0.338E-06	178.13	-351.49	-391.55	115.50	144.57	71.33
				-0.107	39.999	-0.158E-05	237.73	-351.68	-569.89	113.72	232.78	71.94

TESTID: ASTEP1.G												
TIREID: T3												
INFLATION PRESSURE : 37.												
TEST DATE : 12/21/82 14:10:42												
PROCESS DATE : 01-17-83 16:11:24												
COMMENT: T=27.31 V=120												
SEG REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
1	13	0.400	1.184	0.955	0.004	0.727E-07	-81.06	-351.51	47.53	153.78	40.20	104.17
2	13	1.900	2.684	-0.047	0.008	0.389E-06	-8.74	-351.25	16.52	148.66	-5.14	104.10
3	13	3.400	4.184	-1.050	0.002	-0.636E-06	60.00	-351.39	-12.59	141.22	-51.89	103.90
TESTID: ASTEP2.G												
TIREID: T3												
INFLATION PRESSURE : 37.												
TEST DATE : 12/21/82 14:15:3												
PROCESS DATE : 01-17-83 16:11:32												
COMMENT: T=25.33 V=120												
SEG REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
1	13	0.400	1.184	-3.038	0.005	0.964E-07	162.14	-351.15	-65.87	149.41	-77.58	103.90
2	13	1.900	2.688	-5.040	0.001	0.257E-07	229.40	-350.99	-101.77	171.69	-73.31	103.59
TESTID: GSTEP1.G												
TIREID: T3												
INFLATION PRESSURE : 37.												
TEST DATE : 12/21/82 14:20:21.												
PROCESS DATE : 01-17-83 16:11:51												
COMMENT: T=25.30 V=120												
SEG REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
1	13	0.448	1.228	-0.049	10.003	0.102E-06	57.85	-351.34	-126.36	161.61	50.99	104.41
2	13	2.848	3.624	-0.087	20.000	-0.124E-05	116.35	-351.30	-235.78	153.85	99.58	104.78
TESTID: GSTEP2.G												
TIREID: T3												
INFLATION PRESSURE : 37.												
TEST DATE : 12/21/82 14:24:10												
PROCESS DATE : 01-17-83 16:12:04												
COMMENT: T=25.28 V=120												
SEG REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
1	13	0.448	1.216	-0.098	29.998	0.570E-06	172.45	-351.09	-377.12	142.95	151.87	105.88
2	13	2.848	3.608	-0.113	39.992	0.173E-05	233.47	-351.35	-536.52	132.28	230.42	107.18
TESTID: ASTEP1.G												
TIREID: T3												
INFLATION PRESSURE : 32.												
TEST DATE : 12/21/82 14:32:7												
PROCESS DATE : 01-17-83 16:12:20												
COMMENT: T=26.27 V=40 REPEAT												
SEG REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FY	FZ	MX	MY	MZ	OMEGA
1	4	0.400	1.116	0.944	0.001	0.657E-06	-79.66	-350.42	46.63	102.98	51.05	35.10
2	4	1.900	2.616	-0.053	-0.000	-0.348E-06	-6.33	-350.79	10.42	104.83	-3.64	35.10
3	4	3.400	4.112	-1.051	-0.011	-0.355E-05	64.08	-350.50	-23.86	100.63	-58.22	35.21
TESTID: ASTEP1.G												
TIREID: T3												
INFLATION PRESSURE : 32.												

TEST DATE : 12/22/82 15: 4:56
 PROCESS DATE : 01-17-83 16:14:44
 COMMENT: T=24.24 V=40 REPEAT 2
 SEG REVS TSTRT T-END VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	0.957	0.003	-0.895E-06	-10.06	-83.31	-351.61	24.56	113.33	47.50	34.99
2	-0.047	0.004	0.737E-06	-9.76	-8.36	-351.60	-6.72	109.76	-7.22	35.03
3	-1.052	-0.007	-0.164E-05	-9.52	63.20	-351.38	-36.77	106.80	-62.70	35.10

TESTID: ASTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/22/82 15:20:44
 PROCESS DATE : 01-17-83 16:15:09
 COMMENT: T=50.46 V=40
 SEG REVS TSTRT T-END VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	0.962	-0.002	-0.500E-06	-7.06	-68.56	-351.86	23.96	76.33	45.84	35.13
2	-0.060	0.005	-0.463E-06	-7.16	-5.00	-351.82	-9.74	77.58	-5.55	34.99
3	-1.050	0.000	0.361E-05	-7.00	56.43	-351.70	-39.46	75.72	-55.83	34.93

TESTID: ASTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/22/82 15:28:31
 PROCESS DATE : 01-17-83 16:15:31
 COMMENT: T=49.47 V=40
 SEG REVS TSTRT T-END VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	-3.055	0.006	-0.918E-06	-7.29	152.37	-351.51	-117.10	79.18	-99.38	34.82
2	-5.049	-0.004	0.102E-05	-8.47	224.86	-351.55	-161.67	93.38	-103.90	34.70

TESTID: GSTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/22/82 15:31:18
 PROCESS DATE : 01-17-83 16:15:50
 COMMENT: T=50.45 V=40
 SEG REVS TSTRT T-END VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	-0.066	9.992	0.315E-05	-7.39	57.30	-351.49	-178.12	75.61	35.69	35.08
2	-0.072	19.996	-0.152E-05	-8.34	111.27	-351.37	-308.85	72.25	73.32	35.14

TESTID: GSTEP2.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/22/82 15:33:56
 PROCESS DATE : 01-17-83 16:16:16
 COMMENT: T=55.46 V=40
 SEG REVS TSTRT T-END VELOCITY

	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	-0.098	29.997	-0.199E-04	-10.01	173.14	-351.52	-465.01	69.67	110.21	35.89
2	-0.148	39.993	-0.350E-04	-14.46	238.09	-351.82	-665.88	73.76	183.39	36.28

TESTID: ASTEP1.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/22/82 15:36:34
 PROCESS DATE : 01-17-83 16:16:38
 COMMENT: T=54.42 V=80

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	8	0.400	1.116	48.95	0.959	-0.003	-0.106E-06	-8.91	-76.26	-351.49	-13.91	99.64	42.50	70.04
2	8	1.900	2.616	48.97	-0.048	-0.006	-0.935E-07	-9.13	-10.47	-351.40	-51.30	102.37	-8.29	69.99
3	8	3.400	4.116	48.90	-1.051	-0.009	-0.133E-06	-8.90	53.30	-351.30	-80.04	99.57	-57.04	69.95

TESTID: ASTEP2.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 15:39:24
PROCESS DATE : 01-17-83 16:16:57
COMMENT: T=54.44 V=80

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	8	0.400	1.120	48.88	-3.047	0.002	0.298E-06	-8.96	152.05	-351.29	-133.66	100.25	-98.31	69.74
2	8	1.900	2.620	48.89	-5.051	-0.003	-0.136E-07	-10.15	225.32	-351.21	-175.56	114.75	-102.92	69.73

TESTID: GSTEP1.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 15:42:31
PROCESS DATE : 01-17-83 16:17:17
COMMENT: T=54.43 V=80

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	8	0.448	1.160	49.08	-0.070	9.998	-0.217E-06	-9.27	55.49	-351.30	-189.64	99.54	36.99	70.35
2	8	2.848	3.560	48.81	-0.069	19.995	0.242E-05	-10.10	108.77	-351.13	-312.04	94.30	78.21	70.58

TESTID: GSTEP2.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 15:44:58
PROCESS DATE : 01-17-83 16:17:37
COMMENT: T=54.42 V=80

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	9	0.448	1.232	49.04	-0.117	29.989	0.180E-05	-12.21	176.09	-351.27	-460.76	94.90	122.74	71.77
2	9	2.848	3.628	48.88	-0.130	39.995	0.359E-05	-16.23	235.09	-351.62	-645.20	90.45	201.07	72.41

TESTID: ASTEP1.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 15:47:58
PROCESS DATE : 01-17-83 16:18:02
COMMENT: T=54.42 V=120

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	13	0.400	1.184	73.59	0.951	-0.006	0.435E-06	-10.27	-79.79	-350.87	-28.22	117.33	40.54	104.13
2	13	1.900	2.684	73.52	-0.047	-0.002	-0.775E-08	-10.33	-13.98	-350.98	-61.23	118.09	-10.57	103.96
3	13	3.400	4.184	73.52	-1.048	-0.013	-0.335E-06	-10.52	48.40	-351.25	-81.73	120.45	-57.93	103.97

TESTID: ASTEP2.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 15:50:24
PROCESS DATE : 01-17-83 16:18:23
COMMENT: T=53.44 V=120

SEG	REVS	TSTRT	T-END	VELOCITY	ALPHA	GAMMA	RHO	FX	FY	FZ	MX	MY	MZ	OMEGA
1	13	0.400	1.184	73.64	-3.043	-0.008	0.229E-07	-12.07	146.72	-350.55	-134.76	139.67	-94.27	103.99

2	13	1.900	2.688	73.57	-5.043	-0.004	-0.952E-08	-13.32	218.34	-350.69	-173.33	154.93	-104.08	103.64
TESTID: GSTEP1.G														
TIREID: T3														
INFLATION PRESSURE : 34.25														
TEST DATE : 12/22/82 15:53:46														
PROCESS DATE : 01-17-83 16:18:44														
COMMENT: T=53.42 V=120														
SEG REVS TSTRT T-END VELOCITY														
1	13	0.448	1.228	73.65	-0.057	9.993	0.588E-06	-10.35	51.28	-350.78	-189.65	113.64	38.73	104.39
2	13	2.848	3.624	73.50	-0.087	19.999	-0.720E-06	-11.22	105.99	-350.85	-301.80	110.25	77.84	104.87
TESTID: GSTEP2.G														
TIREID: T3														
INFLATION PRESSURE : 34.25														
TEST DATE : 12/22/82 15:56:47														
PROCESS DATE : 01-17-83 16:19:09														
COMMENT: T=53.40 V=120														
SEG REVS TSTRT T-END VELOCITY														
1	13	0.448	1.216	73.86	-0.116	29.980	0.118E-05	-12.98	171.89	-350.73	-441.59	106.32	124.45	106.21
2	13	2.848	3.608	73.61	-0.155	39.986	-0.532E-06	-17.82	232.41	-351.29	-610.28	112.76	207.90	107.41

APPENDIX C

PROCESSING RESULTS OF STATIC TESTS OF TIRE T3

No Curve Fit was Done for These Tests

Steady-State Values Printed

ALPHA - SS Slip Angle in degs

GAMMA - SS Inclination Angle in degs

FX - SS Rolling Resistance in lbs

FY - SS Lateral Force in lbs

FZ - SS Vertical Load in lbs

MX - SS Overturning Moment in in-lbs

MY - SS Rolling Resistance Moment in in-lbs

MZ - SS Aligning Moment in in-lbs

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 15:41:50
PROCESS DATE : 01-17-83 16:39:12
COMMENT: T=25 O,1
ALPHA = 0.945 GAMMA = -0.003 RHO = 0.0
STEADY STATE : FX = -6.21 FY = -67.25 FZ = 0.0
FY-RELAXATION L = 0.766 MX = -49.73
MX-RELAXATION L = 0.394 MZ = 24.51
MZ-RELAXATION L = 0.772
36.79 MY = 65.85 MZ = 47.71
-350.55 MX =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 15:6:39
PROCESS DATE : 01-17-83 16:39:33
COMMENT: T=25 O,0
ALPHA = -0.048 GAMMA = -0.003 RHO = 0.0
STEADY STATE : FX = -5.98 FY = -5.56 FZ = 0.0
FY-RELAXATION L = 1.714 MX = -4.32
MX-RELAXATION L = 0.028 MZ = 3.49
MZ-RELAXATION L = 0.026
4.51 MY = 62.99 MZ = -2.73
-350.44 MX =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 15:8:25
PROCESS DATE : 01-17-83 16:39:52
COMMENT: T=25 O,-1
ALPHA = -1.049 GAMMA = -0.002 RHO = 0.0
STEADY STATE : FX = -5.71 FY = 55.92 FZ = 0.0
FY-RELAXATION L = 0.615 MX = 35.82
MX-RELAXATION L = 0.717 MZ = -15.34
MZ-RELAXATION L = 0.635
-26.51 MY = 59.74 MZ = -55.66
-350.39 MX =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 15:10:10
PROCESS DATE : 01-17-83 16:40:04
COMMENT: T=25 O,-3
ALPHA = -3.050 GAMMA = -0.008 RHO = 0.0
STEADY STATE : FX = -6.25 FY = 152.16 FZ = 0.0
FY-RELAXATION L = 0.592 MX = 98.31
MX-RELAXATION L = 0.797 MZ = -56.23
MZ-RELAXATION L = 0.418
-90.76 MY = 66.35 MZ = -97.50
-350.30 MX =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 15:11:49
PROCESS DATE : 01-17-83 16:40:17
COMMENT: T=25 O,-5
ALPHA = -5.049 GAMMA = -0.010 RHO = 0.0
STEADY STATE : FX = -7.11 FY = 231.62 FZ = 0.0
FY-RELAXATION L = 0.524 MX = 152.20
MX-RELAXATION L = 0.641 MZ = -92.62
MZ-RELAXATION L = 0.353
-145.25 MY = 76.53 MZ = -113.34
-350.30 MX =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 15:13:54
PROCESS DATE : 01-17-83 16:40:27
COMMENT: T=25 10.0
ALPHA = -0.059 GAMMA = 9.995 RHO = 0.0
STEADY STATE : FX = -6.20 FY = 56.08 FZ = 35.32
FY-RELAXATION L = 0.251 FY = 55.57
MX-RELAXATION L = 0.030 MX = -133.49
MZ-RELAXATION L = 0.039 MZ = 28.74
-350.41 MX = -129.34 MY = 60.68 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 15:15:49
PROCESS DATE : 01-17-83 16:40:56
COMMENT: T=25 20.0
ALPHA = -0.074 GAMMA = 19.998 RHO = 0.0
STEADY STATE : FX = -7.26 FY = 111.02 FZ = 72.06
FY-RELAXATION L = 0.367 FY = 109.01
MX-RELAXATION L = 0.133 MX = -263.09
MZ-RELAXATION L = 0.050 MZ = 62.73
-350.59 MX = -264.62 MY = 58.31 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 15:17:30
PROCESS DATE : 01-17-83 16:41:16
COMMENT: T=25 30.0
ALPHA = -0.094 GAMMA = 29.993 RHO = 0.0
STEADY STATE : FX = -9.72 FY = 169.58 FZ = 117.80
FY-RELAXATION L = 0.862 FY = 167.95
MX-RELAXATION L = 0.087 MX = -408.37
MZ-RELAXATION L = 0.074 MZ = 97.74
-350.63 MX = -409.49 MY = 60.33 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 32.
TEST DATE : 12/21/82 15:21:27
PROCESS DATE : 01-17-83 16:41:28
COMMENT: T=25 40.0
ALPHA = -0.123 GAMMA = 39.986 RHO = 0.0
STEADY STATE : FX = -13.70 FY = 238.15 FZ = 192.02
FY-RELAXATION L = 0.738 FY = 228.53
MX-RELAXATION L = 0.324 MX = -618.48
MZ-RELAXATION L = 0.045 MZ = 161.18
-351.16 MX = -624.64 MY = 54.13 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 15:23:19
PROCESS DATE : 01-17-83 16:41:42
COMMENT: T=25 0.1
ALPHA = 0.950 GAMMA = -0.003 RHO = 0.0
STEADY STATE : FX = -6.14 FY = -68.39 FZ = 44.94
FY-RELAXATION L = 0.681 FY = -45.45
MX-RELAXATION L = 0.483 MX = 26.41
MZ-RELAXATION L = 0.620 MZ = 25.42
-350.22 MX = 41.26 MY = 65.12 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 15:21:56
PROCESS DATE : 01-17-83 16:42:13
COMMENT: T=25 O,0
ALPHA = -0.053 GAMMA = -0.005 RHO = 0.0
STEADY STATE : FX = -5.92 FY = -6.63 FZ = -3.74
FY-RELAXATION L = 1.507 ^a FY = -4.81
MX-RELAXATION L = 0.037 ^a MX = 3.39
MZ-RELAXATION L = 0.031 ^a MZ = -3.62
7.58 MY = 62.45 MZ = -3.74
-350.19 MX =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 15:26:41
PROCESS DATE : 01-17-83 16:42:25
COMMENT: T=25 O,-1
ALPHA = -1.058 GAMMA = -0.002 RHO = 0.0
STEADY STATE : FX = -5.52 FY = 54.93 FZ = -52.77
FY-RELAXATION L = 0.554 ^a FY = 34.78
MX-RELAXATION L = 0.682 ^a MX = -14.04
MZ-RELAXATION L = 0.633 ^a MZ = -34.29
-22.11 MY = 57.59 MZ = -52.77
-350.23 MX =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 15:28:21
PROCESS DATE : 01-17-83 16:42:46
COMMENT: T=25 O,-3
ALPHA = -3.051 GAMMA = -0.003 RHO = 0.0
STEADY STATE : FX = -6.01 FY = 150.70 FZ = -96.12
FY-RELAXATION L = 0.456 ^a FY = 97.68
MX-RELAXATION L = 0.559 ^a MX = -51.11
MZ-RELAXATION L = 0.455 ^a MZ = -63.50
-81.95 MY = 63.42 MZ = -96.12
-350.18 MX =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 15:29:54
PROCESS DATE : 01-17-83 16:43:01
COMMENT: T=25 O,-5
ALPHA = -5.051 GAMMA = -0.005 RHO = 0.0
STEADY STATE : FX = -6.95 FY = 224.02 FZ = -104.42
FY-RELAXATION L = 0.440 ^a FY = 146.50
MX-RELAXATION L = 0.594 ^a MX = -84.87
MZ-RELAXATION L = 0.331 ^a MZ = -67.25
74.76 MZ = -104.42
-350.21 MX =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/21/82 15:31:28
PROCESS DATE : 01-17-83 16:43:17
COMMENT: T=25 10,0
ALPHA = -0.059 GAMMA = 9.995 RHO = 0.0
STEADY STATE : FX = -6.13 FY = 54.45 FZ = 34.44
FY-RELAXATION L = 0.082 ^a FY = 55.33
MX-RELAXATION L = 0.351 ^a MX = -127.09
MZ-RELAXATION L = 0.101 ^a MZ = 29.81
-126.37 MY = 60.03 MZ = 34.44
-350.34 MX =

TESTID: RELAX.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 15:32:59
 PROCESS DATE : 01-17-83 16:43:33
 COMMENT: T=25 20.0
 ALPHA = -0.087 GAMMA = 19.998 RHO = 0.0
 STEADY STATE : FX = -7.08 FY = 107.49 FZ = 67.75
 FY-RELAXATION L = 0.035 @ FY = 108.17
 MX-RELAXATION L = 0.031 @ MX = -249.50
 MZ-RELAXATION L = 0.051 @ MZ = 58.31

TESTID: RELAX.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 15:34:24
 PROCESS DATE : 01-17-83 16:43:46
 COMMENT: T=25 30.0
 ALPHA = -0.091 GAMMA = 29.992 RHO = 0.0
 STEADY STATE : FX = -9.20 FY = 168.16 FZ = 110.42
 FY-RELAXATION L = 0.613 @ FY = 165.83
 MX-RELAXATION L = 0.071 @ MX = -400.78
 MZ-RELAXATION L = 0.062 @ MZ = 94.31

TESTID: RELAX.G
 TIREID: T3
 INFLATION PRESSURE : 34.25
 TEST DATE : 12/21/82 15:36:16
 PROCESS DATE : 01-17-83 16:44:01
 COMMENT: T=25 40.0
 ALPHA = -0.135 GAMMA = 39.995 RHO = 0.0
 STEADY STATE : FX = -13.14 FY = 226.85 FZ = 180.54
 FY-RELAXATION L = 0.826 @ FY = 223.14
 MX-RELAXATION L = 0.273 @ MX = -608.17
 MZ-RELAXATION L = 0.050 @ MZ = 147.70

TESTID: RELAX.G
 TIREID: T3
 INFLATION PRESSURE : 37.
 TEST DATE : 12/21/82 15:38: 1
 PROCESS DATE : 01-17-83 16:44:18
 COMMENT: T=25 0.1
 ALPHA = 0.941 GAMMA = -0.004 RHO = 0.0
 STEADY STATE : FX = -5.97 FY = -69.16 FZ = 43.64
 FY-RELAXATION L = 0.601 @ FY = -44.97
 MX-RELAXATION L = 0.381 @ MX = 33.52
 MZ-RELAXATION L = 0.632 @ MZ = 29.46

TESTID: RELAX.G
 TIREID: T3
 INFLATION PRESSURE : 37.
 TEST DATE : 12/22/82 14:39:15
 PROCESS DATE : 01-17-83 16:44:37
 COMMENT: T=23 0.0
 ALPHA = -0.040 GAMMA = 0.008 RHO = 0.0
 STEADY STATE : FX = -5.61 FY = -7.61 FZ = -4.77
 FY-RELAXATION L = 1.614 @ FY = -5.72
 MX-RELAXATION L = 0.027 @ MX = -1.73
 MZ-RELAXATION L = 0.032 @ MZ = -3.38

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 37.
TEST DATE : 12/22/82 14:41:44
PROCESS DATE : 01-17-83 16:44:56
COMMENT: T=23 0,-1
ALPHA = -1.042 GAMMA = 0.005 RHO = 0.0
STEADY STATE : FX = -5.08 FY = 54.69 FZ = 0.0
FY-RELAXATION L = 0.665 @ FY = 35.19
MX-RELAXATION L = 3.752 @ MX = -27.35
MZ-RELAXATION L = 0.808 @ MZ = -37.12
-352.02 MX = -30.05 MY = 52.29 MZ = -52.87

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 37.
TEST DATE : 12/22/82 14:43:51
PROCESS DATE : 01-17-83 16:45:12
COMMENT: T=23 0,-3
ALPHA = -3.040 GAMMA = 0.004 RHO = 0.0
STEADY STATE : FX = -5.52 FY = 148.53 FZ = 0.0
FY-RELAXATION L = 0.519 @ FY = 97.21
MX-RELAXATION L = 0.567 @ MX = -47.58
MZ-RELAXATION L = 0.369 @ MZ = -59.74
-70.07 MY = 57.58 MZ = -90.01

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 37.
TEST DATE : 12/22/82 14:45:25
PROCESS DATE : 01-17-83 16:45:32
COMMENT: T=23 0,-5
ALPHA = -5.041 GAMMA = 0.009 RHO = 0.0
STEADY STATE : FX = -6.29 FY = 219.24 FZ = 0.0
FY-RELAXATION L = 0.455 @ FY = 144.20
MX-RELAXATION L = 0.492 @ MX = -70.40
MZ-RELAXATION L = 0.309 @ MZ = -62.85
-104.74 MY = 66.96 MZ = -94.60

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 37.
TEST DATE : 12/22/82 14:47:17
PROCESS DATE : 01-17-83 16:45:46
COMMENT: T=23 10,0
ALPHA = -0.051 GAMMA = 10.002 RHO = 0.0
STEADY STATE : FX = -5.90 FY = 52.24 FZ = 0.0
FY-RELAXATION L = 0.508 @ FY = 52.99
MX-RELAXATION L = 0.027 @ MX = -144.31
MZ-RELAXATION L = 0.136 @ MZ = 28.18
-144.51 MY = 57.95 MZ = 31.02

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 37.
TEST DATE : 12/22/82 14:48:50
PROCESS DATE : 01-17-83 16:46:06
COMMENT: T=23 20,0
ALPHA = -0.060 GAMMA = 19.995 RHO = 0.0
STEADY STATE : FX = -6.82 FY = 101.94 FZ = 0.0
FY-RELAXATION L = 0.215 @ FY = 103.24
MX-RELAXATION L = 0.028 @ MX = -272.38
MZ-RELAXATION L = 0.063 @ MZ = 51.62
-273.64 MY = 56.32 MZ = 62.38

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 37.
TEST DATE : 12/22/82 14:50:37
PROCESS DATE : 01-17-83 16:46:20
COMMENT: T=23 30.0
ALPHA = -0.097 GAMMA = 30.002 RHO = 0.0
STEADY STATE : FX = -8.72 FY = 163.91 FZ = 101.08
FY-RELAXATION L = 1.151 @ FY = 162.90
MX-RELAXATION L = 0.053 @ MX = -412.01
MZ-RELAXATION L = 0.049 @ MZ = 85.80
-351.82 MX = -417.21 MY = 56.19 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 37.
TEST DATE : 12/22/82 14:55:0
PROCESS DATE : 01-17-83 16:46:33
COMMENT: T=23 40.0
ALPHA = -0.137 GAMMA = 40.000 RHO = 0.0
STEADY STATE : FX = -12.15 FY = 217.72 FZ = 166.40
FY-RELAXATION L = 0.721 @ FY = 211.78
MX-RELAXATION L = 0.029 @ MX = -615.41
MZ-RELAXATION L = 0.034 @ MZ = 145.21
-352.02 MX = -618.41 MY = 50.52 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 16:11:13
PROCESS DATE : 01-17-83 16:49:13
COMMENT: T=54.51
ALPHA = 0.943 GAMMA = -0.008 RHO = 0.0
STEADY STATE : FX = -5.55 FY = -59.97 FZ = 39.68
FY-RELAXATION L = 0.650 @ FY = -40.59
MX-RELAXATION L = 0.451 @ MX = -38.02
MZ-RELAXATION L = 0.669 @ MZ = 21.75
-351.19 MX = -24.85 MY = 57.61 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 16:13:0
PROCESS DATE : 01-17-83 16:49:47
COMMENT: T=53.50 0.0
ALPHA = -0.059 GAMMA = -0.008 RHO = 0.0
STEADY STATE : FX = -5.33 FY = -8.74 FZ = -5.49
FY-RELAXATION L = 1.434 @ FY = -7.84
MX-RELAXATION L = 0.119 @ MX = -59.70
MZ-RELAXATION L = 0.038 @ MZ = -4.58
-350.96 MX = -61.62 MY = 54.93 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 16:14:51
PROCESS DATE : 01-17-83 16:50:00
COMMENT: T=50.47 0.1
ALPHA = -1.056 GAMMA = -0.014 RHO = 0.0
STEADY STATE : FX = -5.12 FY = 42.38 FZ = -50.52
FY-RELAXATION L = 0.554 @ FY = 24.89
MX-RELAXATION L = 0.648 @ MX = -87.88
MZ-RELAXATION L = 0.569 @ MZ = -33.74
-94.81 MY = 52.44 MZ =

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 16:16:39
PROCESS DATE : 01-17-83 16:50:09
COMMENT: T=50.46 O,-3
ALPHA = -3.049 GAMMA = -0.014 RHO = 0.0
STEADY STATE : FX = -5.67 FY = 129.94 FZ = 0.0
FY-RELAXATION L = 0.506 FY = 82.66
MX-RELAXATION L = 0.695 MX = -131.82
MZ-RELAXATION L = 0.491 MZ = -68.71
ALPHA = -350.53 MX = -159.97 MY = 59.03 MZ = -103.91

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 16:18:38
PROCESS DATE : 01-17-83 16:50:19
COMMENT: T=51.47 O,-5
ALPHA = -5.053 GAMMA = -0.013 RHO = 0.0
STEADY STATE : FX = -6.65 FY = 197.41 FZ = 0.0
FY-RELAXATION L = 0.460 FY = 125.81
MX-RELAXATION L = 0.427 MX = -160.03
MZ-RELAXATION L = 0.419 MZ = -76.69
ALPHA = -350.49 MX = -205.95 MY = 70.94 MZ = -118.37

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 16:20:52
PROCESS DATE : 01-17-83 16:50:29
COMMENT: T=53.47 10.0
ALPHA = -0.070 GAMMA = 9.989 RHO = 0.0
STEADY STATE : FX = -5.20 FY = 46.11 FZ = 0.0
FY-RELAXATION L = 0.150 FY = 45.99
MX-RELAXATION L = 0.251 MX = -223.54
MZ-RELAXATION L = 0.061 MZ = 23.93
ALPHA = -222.20 MY = 49.53 MZ = 27.64

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 16:23: 5
PROCESS DATE : 01-17-83 16:50:40
COMMENT: T=53.47 20.0
ALPHA = -0.094 GAMMA = 19.991 RHO = 0.0
STEADY STATE : FX = -6.07 FY = 97.07 FZ = 0.0
FY-RELAXATION L = 0.048 FY = 96.16
MX-RELAXATION L = 0.075 MX = -351.65
MZ-RELAXATION L = 0.056 MZ = 49.52
ALPHA = -350.42 MX = -351.44 MY = 48.30 MZ = 56.32

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 16:24:59
PROCESS DATE : 01-17-83 16:50:49
COMMENT: T=52.47 30.0
ALPHA = -0.113 GAMMA = 29.987 RHO = 0.0
STEADY STATE : FX = -7.56 FY = 153.51 FZ = 0.0
FY-RELAXATION L = 0.025 FY = 153.55
MX-RELAXATION L = 0.029 MX = -502.32
MZ-RELAXATION L = 0.064 MZ = 70.04
ALPHA = -504.62 MY = 47.98 MZ = 85.33

TESTID: RELAX.G
TIREID: T3
INFLATION PRESSURE : 34.25
TEST DATE : 12/22/82 16:27: 3
PROCESS DATE : 01-17-83 16:51:03
COMMENT: T=52.48 40.0
ALPHA = -0.159 GAMMA = 39.987 RHO = 0.0
STEADY STATE : FX = -10.63 FY = 216.34 FZ = 0.0
FY-RELAXATION L = 0.759 MX = 210.19
MX-RELAXATION L = 0.040 MZ = -708.02
MZ-RELAXATION L = 0.051 MZ = 118.83
47.32 MZ = 139.19
-715.08 MY = -350.91 MX =