



Rubber Interlaboratory Testing Program

Summary Report #151- 1st Qtr 07

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607	Stress at 300% Elongation: Precured Samples
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ABOUT THE PROGRAM

The Collaborative Reference Program for RUBBER, which was initiated in 1969, is operated and maintained by Collaborative Testing Services, Inc. (CTS), with technical guidance provided by the Rubber Division of the American Chemical Society. The program allows laboratories to compare periodically the level and uniformity of their testing with that of other participating laboratories. It also provides a realistic assessment of the state of rubber testing proficiency.

For each test there are summary statistics and a graphical representation of the data. Also shown are notes concerning specific laboratory results, as well as significant findings related to instrument types or other testing variations. Please refer to the section KEY TO TABLES AND GRAPHS for an explanation of terms and guidelines to interpreting the results.

ABOUT CTS

Founded in 1971, CTS is a privately-owned company that specializes in interlaboratory tests for a wide variety of industrial sectors, including rubber, plastics, fasteners and metals, containerboard, paper and color, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality control objectives. More than 2400 labs from the U.S., as well as more than 55 countries, currently participate in the CTS programs.

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WebCode	Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Rubber Report published on the CTS Web site. The WebCode for each analysis can be found in the Performance Analysis Report mailed to each participant.
Lab Mean	Tensile & Hardness: the average of the median values obtained for each sample. All other tests: the average of the test results obtained by the participant.
Grand Mean	The average of the LAB MEANS for all included participants. Laboratories flagged with an X or an M (see DATA FLAG column) are excluded from the GRAND MEAN.
Difference from Grand Mean	The difference of the LAB MEAN from the GRAND MEAN.
Between-Lab Standard Deviation	An indication of the precision of measurement between the laboratories. The greater the spread of the LAB MEANS about the GRAND MEAN, the larger the BETWEEN-LAB STANDARD DEVIATION (and vice versa).
Comparative Performance Value	An indication of how well a laboratory's results agree with the other participants. The CPV is a ratio indicating the number of standard deviations from the GRAND MEAN. The closer a laboratory's COMPARATIVE PERFORMANCE VALUE is to zero, the more consistent its results are with the other participants' data (and vice versa). The critical value for each CPV will vary depending on the number of labs participating in a test.
Inst Code	If instruments are tracked in a test, a code indicating the manufacturer of the instrument used to perform the test (see separate INSTRUMENT CODE LIST for each test section).
Data Flag	DATA FLAGS are assigned based on the simultaneous analysis of both samples tested. Refer to the following chart for an explanation of each symbol:

<u>DATA FLAG</u>	<u>STATISTICALLY INCLUDED/EXCLUDED</u>	<u>ACTION REQUIRED</u>
*	INCLUDED	CAUTION - review testing procedure and monitor future results. Results fall outside 95% ellipse but within a 99% ellipse that is calculated but not drawn.
X	EXCLUDED	STOP - immediate review of data and/or testing procedure is required. Results fall outside the 99% ellipse. See specific notes following each table for more information on why the data is excluded.
M	EXCLUDED	PROCEED - lab was unable to report data for at least one sample. However, a lab receiving two of more M flags for a test may need to stop and review its testing procedures.

Graph - For each laboratory, the LAB MEAN for the first sample (x-axis) is plotted against the LAB MEAN for the second sample (y-axis) with each point representing a laboratory. The horizontal and vertical cross-hairs are the GRAND MEANS for each sample. When 20 or more laboratories are in the statistics, an ellipse is also drawn so that 95% of the time a randomly selected laboratory will be included inside the ellipse. Plotted data flags are explained above.

Common Problems Highlighted in Footnotes

1. **Extreme data** - The laboratory's results for one or both samples are so inconsistent with those of the other participants that the lab mean(s) fall outside the plot. (The data usually vary by more than three standard deviations from the grand mean.) The participant is advised to immediately review his data and/or testing procedure.
 2. **Systematic bias** - The laboratory's results are either consistently high or low for both samples when compared to the other participants (the plotted point falls near the top or bottom of the ellipse). This indicates that the participant is performing the test with a constant bias. Causes of systematic errors include improper calibration, the particular make/model of equipment or a modification to the testing procedure.
 3. **Inconsistency in testing between samples/sample sets** - The laboratory's results indicate that there are differences in the way the two samples tested (the plotted point falls to the side of the ellipse). This type of error may be attributed to the analyst deviating from the procedure when testing one of the samples or a material interaction occurrence with the instrument or room conditions. The inconsistency is reflected in the CPVs for the two samples, such as a +1.5 CPV for sample A and a -2.2 CPV for sample B. CTS also will specify if the laboratory's data for one sample are high/low compared to the other participants. If this inconsistency is slight, the lab's plotted point will be an * that falls on the edge of the ellipse.
 4. **Inconsistency in testing within a sample** - The laboratory's within-lab standard deviation for a specified sample is high when compared to the other participants, often causing the lab's plotted point to fall outside of the ellipse.
 5. **Data appeared to be off by a factor of # and was corrected by CTS** - In tests that involve computations, the results reported to CTS may be off by a factor. If this factor can easily be determined, CTS may correct the data and flag the participant. Occasionally CTS will correct a laboratory's results even though the data are still high or low when compared to the other participants. This is done so that the laboratory may be alerted to other possible errors in its testing procedure.
 6. **Data for two samples (or two tests) appeared to be switched by the lab, and the error was corrected by CTS.**
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Labs flagged with an * are not typically included in the footnotes of a data table. These labs may locate their position in the control ellipse and use the definitions above to help identify the type of testing error. An * should serve as a caution flag, a "yellow light", to a lab. If this error is repeated in future rounds, a lab may need to stop and review its testing procedures. The initial data flag is not cause for alarm. Interlaboratory tests conducted at regular intervals permit a lab to recognize trends in testing.

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
11V5PT		3,195.5	-66.1	-0.36	3,220.5	-64.6	-0.36	ZZ
1A44H9		3,322.0	60.4	0.33	3,308.5	23.4	0.13	ZZ
1AYC7X		3,285.1	23.5	0.13	3,285.1	0.0	0.00	ZZ
1B6B3L		3,260.0	-1.6	-0.01	3,360.0	74.9	0.41	ZZ
1LGWNQ		3,257.0	-4.6	-0.03	3,194.5	-90.6	-0.50	ZZ
1SQWZM		3,200.0	-61.6	-0.34	3,187.0	-98.1	-0.54	ZZ
24T1MK		3,269.5	7.9	0.04	3,304.0	18.9	0.10	ZZ
2CVCDW		3,488.5	226.9	1.25	3,530.5	245.4	1.36	ZZ
2E7QBW		3,430.0	168.4	0.93	3,457.5	172.4	0.95	ZZ
2GG5SY		3,339.0	77.4	0.43	3,355.0	69.9	0.39	ZZ
393GV9		3,338.0	76.4	0.42	3,354.5	69.4	0.38	ZZ
4VTUR4		2,869.5	-392.1	-2.16	2,969.5	-315.6	-1.75	ZZ
5BW1S6		3,277.9	16.3	0.09	3,314.1	29.0	0.16	ZZ
5L6ZLM		3,191.1	-70.5	-0.39	3,193.2	-92.0	-0.51	ZZ
5TZV1P		3,064.0	-197.6	-1.09	3,088.5	-196.6	-1.09	ZZ
62DBYX		3,382.0	120.4	0.66	3,354.0	68.9	0.38	ZZ
69T8LJ		3,142.3	-119.4	-0.66	3,096.6	-188.6	-1.04	ZZ
6GLYWL		3,379.4	117.8	0.65	3,484.6	199.4	1.10	ZZ
6LXJP7		3,094.5	-167.1	-0.92	3,185.0	-100.1	-0.55	ZZ
6MGQ8R		3,274.5	12.9	0.07	3,347.0	61.9	0.34	ZZ
7JT1CX		3,333.0	71.4	0.39	3,381.0	95.9	0.53	ZZ
7WV4MC		3,081.5	-180.1	-0.99	3,035.0	-250.1	-1.38	ZZ
7YLA5M		3,413.0	151.4	0.84	3,438.5	153.4	0.85	ZZ
7YNQ68		3,531.0	269.4	1.49	3,579.0	293.9	1.63	ZZ
84NK8E		3,618.7	357.1	1.97	3,684.0	398.8	2.21	ZZ
89DX93		2,892.8	-368.9	-2.04	2,959.9	-325.2	-1.80	ZZ
8XNYQS		3,259.0	-2.6	-0.01	3,438.5	153.4	0.85	ZZ
9UVD72		3,472.0	210.4	1.16	3,447.5	162.4	0.90	ZZ
A8R6B3		3,182.8	-78.9	-0.44	3,192.1	-93.1	-0.51	ZZ
AMGTQ		3,372.1	110.5	0.61	3,525.0	239.9	1.33	ZZ
ASRFVD		3,304.0	42.4	0.23	3,343.0	57.9	0.32	ZZ
ATUFCE		3,111.0	-150.6	-0.83	3,117.0	-168.1	-0.93	ZZ
BBJBRL		3,491.1	229.5	1.27	3,526.6	241.5	1.34	ZZ
BW4V24		3,155.3	-106.3	-0.59	3,151.0	-134.2	-0.74	ZZ
BWZUJQ		3,334.0	72.4	0.40	3,464.5	179.4	0.99	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
C89K7J		3,259.0	-2.6	-0.01	3,263.5	-21.6	-0.12	ZZ
CM8PBA		3,515.0	253.4	1.40	3,515.0	229.9	1.27	ZZ
CS1T3T		3,028.3	-233.4	-1.29	2,994.5	-290.7	-1.61	ZZ
CU9623		3,413.5	151.9	0.84	3,409.5	124.4	0.69	ZZ
CUTP38		3,318.5	56.9	0.31	3,322.8	37.7	0.21	ZZ
D3H53Q		3,308.8	47.2	0.26	3,309.2	24.1	0.13	ZZ
DZFM2V		3,039.8	-221.8	-1.22	2,960.9	-324.2	-1.79	ZZ
EFYXDW		3,296.0	34.4	0.19	3,206.0	-79.1	-0.44	ZZ
F9TFHG		3,096.6	-165.0	-0.91	3,154.6	-130.5	-0.72	ZZ
FAEYN2	*	2,920.5	-341.1	-1.88	2,839.5	-445.6	-2.46	ZZ
FARQMK		3,406.5	144.9	0.80	3,390.5	105.4	0.58	ZZ
FE78GM		3,230.5	-31.1	-0.17	3,286.5	1.4	0.01	ZZ
FKDRR8		2,964.0	-297.6	-1.64	2,888.0	-397.1	-2.20	ZZ
FKE49H		2,981.5	-280.1	-1.55	2,996.0	-289.1	-1.60	ZZ
FMG8X		3,542.5	280.9	1.55	3,573.5	288.4	1.59	ZZ
FP9ZBN		3,190.9	-70.8	-0.39	3,190.9	-94.3	-0.52	ZZ
FQHD9G		3,222.5	-39.1	-0.22	3,187.5	-97.6	-0.54	ZZ
G4F5QY		3,470.0	208.4	1.15	3,483.5	198.4	1.10	ZZ
H262F2		3,342.0	80.4	0.44	3,430.0	144.9	0.80	ZZ
HPF5GQ		3,165.0	-96.6	-0.53	3,163.0	-122.1	-0.68	ZZ
HS5ZAQ		3,428.0	166.4	0.92	3,463.0	177.9	0.98	ZZ
HT8JHS	*	2,979.8	-281.8	-1.55	3,162.6	-122.6	-0.68	ZZ
J8GLZZ	*	2,748.5	-513.1	-2.83	2,844.5	-440.6	-2.44	ZZ
JVTL7C		3,406.5	144.9	0.80	3,379.5	94.4	0.52	ZZ
K87H2C		3,443.5	181.9	1.00	3,426.0	140.9	0.78	ZZ
KEBC21		3,366.4	104.7	0.58	3,329.4	44.2	0.24	ZZ
L3BFMY		3,232.0	-29.6	-0.16	3,127.5	-157.6	-0.87	ZZ
L7RVA5		3,121.0	-140.6	-0.78	3,284.0	-1.1	-0.01	ZZ
L936J1		3,272.5	10.9	0.06	3,241.5	-43.6	-0.24	ZZ
LHPQPL		3,334.4	72.8	0.40	3,456.3	171.1	0.95	ZZ
LVDVDB		3,260.0	-1.6	-0.01	3,360.5	75.4	0.42	ZZ
LXLMNJ		3,424.0	162.4	0.90	3,346.5	61.4	0.34	ZZ
LZ8227		3,468.0	206.4	1.14	3,473.5	188.4	1.04	ZZ
MCEJG1		3,420.5	158.9	0.88	3,299.0	13.9	0.08	ZZ
MGS67Z		2,947.2	-314.4	-1.74	3,020.4	-264.7	-1.46	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MJHFBZ		3,325.0	63.4	0.35	3,435.0	149.9	0.83	ZZ
NHZYLY		3,108.9	-152.7	-0.84	3,184.3	-100.8	-0.56	ZZ
NLHZKR		3,381.0	119.4	0.66	3,369.0	83.9	0.46	ZZ
NRJ122	X	2,592.0	-669.6	-3.70	2,622.5	-662.6	-3.66	ZZ
NVLULQ		3,206.0	-55.6	-0.31	3,198.5	-86.6	-0.48	ZZ
P64R43		3,648.3	386.7	2.13	3,584.3	299.1	1.65	ZZ
P8VHHU		3,399.5	137.9	0.76	3,443.5	158.4	0.88	ZZ
PU7KA4		3,121.5	-140.1	-0.77	3,138.0	-147.1	-0.81	ZZ
Q5NPWS		3,444.0	182.4	1.01	3,467.5	182.4	1.01	ZZ
R6B4KN		3,332.5	70.9	0.39	3,428.0	142.9	0.79	ZZ
RAR1PK		3,124.9	-136.7	-0.75	3,157.4	-127.7	-0.71	ZZ
RJD48E		3,034.5	-227.1	-1.25	3,098.5	-186.6	-1.03	ZZ
RL87DE		3,156.7	-104.9	-0.58	3,047.3	-237.9	-1.32	ZZ
RNKXQ4		3,022.0	-239.6	-1.32	3,160.0	-125.1	-0.69	ZZ
S2J7YV		3,427.0	165.4	0.91	3,466.0	180.9	1.00	ZZ
S3RVCT		3,516.0	254.4	1.40	3,541.0	255.9	1.42	ZZ
S7GC9T		3,429.4	167.8	0.93	3,572.3	287.2	1.59	ZZ
T9BAFR		2,997.2	-264.5	-1.46	3,078.2	-207.0	-1.14	ZZ
TBLP9Y		3,438.5	176.9	0.98	3,465.5	180.4	1.00	ZZ
TC2Y9R		3,315.0	53.4	0.29	3,180.0	-105.1	-0.58	ZZ
TQ36Y8		3,387.0	125.4	0.69	3,421.5	136.4	0.75	ZZ
TZMWLF		3,297.0	35.4	0.20	3,352.0	66.9	0.37	ZZ
U7DY1W		3,248.0	-13.6	-0.08	3,418.0	132.9	0.73	ZZ
U8DQHC		3,142.5	-119.1	-0.66	3,191.0	-94.1	-0.52	ZZ
UL4LSB		3,050.5	-211.1	-1.16	3,034.0	-251.1	-1.39	ZZ
UNY53Q	X	5,284.0	2,022.4	11.16	4,382.0	1,096.9	6.07	ZZ
WEQ55L		3,225.0	-36.6	-0.20	3,258.5	-26.6	-0.15	ZZ
WF3EVH		3,536.5	274.9	1.52	3,545.5	260.4	1.44	ZZ
WM74R5		3,173.5	-88.1	-0.49	3,256.5	-28.6	-0.16	ZZ
WQZZKJ		3,169.0	-92.6	-0.51	3,113.5	-171.6	-0.95	ZZ
WYFE5Z		2,987.5	-274.1	-1.51	3,132.5	-152.6	-0.84	ZZ
XB6N9M		2,915.5	-346.1	-1.91	3,002.0	-283.1	-1.57	ZZ
XDLNZE		3,467.7	206.0	1.14	3,387.1	102.0	0.56	ZZ
XEJAZK		3,384.0	122.4	0.68	3,416.5	131.4	0.73	ZZ
XNGFUS		3,458.5	196.9	1.09	3,421.5	136.4	0.75	ZZ

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XWUFFG		3,286.5	24.9	0.14	3,295.0	9.9	0.05	ZZ
Y438AJ		3,052.3	-209.3	-1.15	3,082.1	-203.1	-1.12	ZZ
YL61X6		3,355.0	93.4	0.52	3,347.5	62.4	0.34	ZZ
YQLFLC	X	2,794.0	-467.6	-2.58	3,293.5	8.4	0.05	ZZ
YXZSS3	X	3,339.5	77.9	0.43	3,572.5	287.4	1.59	ZZ
Z59KCZ		3,234.4	-27.3	-0.15	3,263.4	-21.8	-0.12	ZZ
Z7MP8H		3,314.5	52.9	0.29	3,268.1	-17.0	-0.09	ZZ
ZDL5TV		3,539.7	278.1	1.53	3,470.1	184.9	1.02	ZZ
ZF8FE2		2,951.5	-310.1	-1.71	3,024.1	-261.1	-1.44	ZZ

Summary Statistics	
Grand Means	
3,261.62 psi	3,285.14 psi
Std Dev Btwn Labs	
181.22 psi	180.81 psi
Statistics based on 110 of 114 reporting participants	

Summary Statistics in SI Units	
Grand Means	
22.488 MPa	22.65 MPa
Std Dev Btwn Labs	
1.249 MPa	1.25 MPa
Statistics based on 110 of 114 reporting participants	

Samples A71-A72: Polyisoprene compound, batch #1 & A73-A74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #605

NRJ122 (X) - Data for all Samples are low. Possible Systematic Error.

UNY53Q (X) - Data for all Samples are high.

YQLFLC (X) - Inconsistency in testing between Sample sets. Data for Sample A72 are low.

YXZSS3 (X) - Inconsistency in testing between Sample sets. Also Inconsistency in testing within Sample Set A71-A72.

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
12DGVK		571.5	3.0	0.12	566.5	-5.3	-0.20	ZZ
1UGQ63		586.5	18.0	0.69	583.5	11.7	0.44	ZZ
24DMCQ		584.0	15.5	0.60	595.5	23.7	0.89	ZZ
27SJHS		556.5	-12.0	-0.46	557.0	-14.8	-0.56	ZZ
2QR4CD		594.0	25.5	0.98	609.0	37.2	1.40	ZZ
32HH3G		600.0	31.5	1.21	588.5	16.7	0.63	ZZ
41ESC6		584.5	16.0	0.62	584.5	12.7	0.48	ZZ
4CC1BV		557.0	-11.5	-0.44	563.5	-8.3	-0.31	ZZ
4MYTD6		571.0	2.5	0.10	573.5	1.7	0.06	ZZ
4P875U		566.0	-2.5	-0.10	565.5	-6.3	-0.24	ZZ
4WQ33U		584.5	16.0	0.62	590.0	18.2	0.68	ZZ
51G5VE		519.5	-49.0	-1.89	533.5	-38.3	-1.44	ZZ
5FADES		587.0	18.5	0.71	599.0	27.2	1.02	ZZ
5UB7Q1		571.5	3.0	0.12	581.0	9.2	0.35	ZZ
6KEBTJ		555.5	-13.0	-0.50	565.0	-6.8	-0.26	ZZ
75RZPF		568.0	-0.5	-0.02	587.0	15.2	0.57	ZZ
77K7AL		559.5	-9.0	-0.35	558.0	-13.8	-0.52	ZZ
81PG3T		568.5	0.0	0.00	585.5	13.7	0.51	ZZ
86GNKH		568.0	-0.5	-0.02	558.0	-13.8	-0.52	ZZ
8CMUAZ		583.0	14.5	0.56	597.5	25.7	0.97	ZZ
8DSGJX		554.4	-14.1	-0.54	556.3	-15.6	-0.59	ZZ
8H9BBB		551.0	-17.5	-0.67	539.0	-32.8	-1.24	ZZ
8V7EAH		527.5	-41.0	-1.58	539.0	-32.8	-1.24	ZZ
8YLLKQ		601.5	32.9	1.27	585.0	13.2	0.50	ZZ
9GB5QA		603.0	34.5	1.33	608.5	36.7	1.38	ZZ
A9KBKB		606.0	37.4	1.44	606.2	34.4	1.29	ZZ
A9U97M	X	562.5	-6.0	-0.23	600.0	28.2	1.06	ZZ
AH2P8L		562.5	-6.0	-0.23	557.5	-14.3	-0.54	ZZ
B1ENXH		564.0	-4.5	-0.17	582.0	10.2	0.38	ZZ
B5EGPC		587.5	19.0	0.73	588.0	16.2	0.61	ZZ
B6K1HE		548.5	-20.0	-0.77	560.5	-11.3	-0.43	ZZ
B8UWCJ		587.5	19.0	0.73	610.5	38.7	1.46	ZZ
BB7GM7		582.5	14.0	0.54	589.0	17.2	0.65	ZZ
BWGWF		514.0	-54.5	-2.10	512.5	-59.3	-2.23	ZZ
CBFTKA		548.5	-20.0	-0.77	554.0	-17.8	-0.67	ZZ

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CCS57Y		577.0	8.5	0.33	585.0	13.2	0.50	ZZ
CEZVJ3	X	654.5	86.0	3.31	731.5	159.7	6.01	ZZ
CGJJNV		555.0	-13.5	-0.52	550.0	-21.8	-0.82	ZZ
CNPJD5		516.4	-52.1	-2.01	526.3	-45.5	-1.71	ZZ
D3ZJQL	X	528.0	-40.5	-1.56	603.0	31.2	1.17	ZZ
DGMXU9		595.0	26.5	1.02	580.5	8.7	0.33	ZZ
DKW7EX	X	592.5	24.0	0.92	626.5	54.7	2.06	ZZ
E9D18M		587.5	19.0	0.73	587.5	15.7	0.59	ZZ
E9XRM1		590.5	22.0	0.85	584.5	12.7	0.48	ZZ
F26KQ6		555.5	-13.0	-0.50	555.5	-16.3	-0.61	ZZ
FYD8D8		597.0	28.5	1.10	595.5	23.7	0.89	ZZ
G2T6E2		552.5	-16.0	-0.62	558.3	-13.6	-0.51	ZZ
G33KXP		562.5	-6.0	-0.23	553.5	-18.3	-0.69	ZZ
G4HXP6		544.0	-24.5	-0.94	564.0	-7.8	-0.29	ZZ
GFWBSL		553.5	-15.0	-0.58	555.0	-16.8	-0.63	ZZ
GHZVNF		560.0	-8.5	-0.33	564.5	-7.3	-0.28	ZZ
H4BYWH		590.0	21.5	0.83	606.5	34.7	1.31	ZZ
HA3S6J		560.0	-8.5	-0.33	567.5	-4.3	-0.16	ZZ
HFMDW		584.5	16.0	0.62	597.0	25.2	0.95	ZZ
HNA13M		591.0	22.5	0.87	601.0	29.2	1.10	ZZ
HNS9U2		533.5	-35.0	-1.35	527.0	-44.8	-1.69	ZZ
J73ATU		576.5	8.0	0.31	592.0	20.2	0.76	ZZ
J7EF25		597.0	28.5	1.10	591.5	19.7	0.74	ZZ
JKLNPW		584.5	16.0	0.62	594.0	22.2	0.83	ZZ
JVKUP2		563.5	-5.0	-0.19	563.0	-8.8	-0.33	ZZ
K55FDX		574.0	5.5	0.21	573.0	1.2	0.04	ZZ
K6LFSK		548.0	-20.5	-0.79	547.5	-24.3	-0.92	ZZ
L2KSEH		578.0	9.5	0.37	587.0	15.2	0.57	ZZ
L3TEVQ		552.0	-16.6	-0.64	552.3	-19.5	-0.73	ZZ
LNJ2NB		588.5	20.0	0.77	583.0	11.2	0.42	ZZ
LX3ZCA		555.0	-13.5	-0.52	568.0	-3.8	-0.14	ZZ
LYAG5E	*	501.0	-67.5	-2.60	504.8	-67.1	-2.52	ZZ
M8AVGS		580.5	11.9	0.46	581.8	9.9	0.37	ZZ
MGQK9Y		559.0	-9.5	-0.37	578.5	6.7	0.25	ZZ
MVU9JY		558.0	-10.5	-0.40	564.0	-7.8	-0.29	ZZ

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
NW7PYS		518.5	-50.0	-1.92	533.5	-38.3	-1.44	ZZ
P3LYGL		530.6	-37.9	-1.46	517.9	-54.0	-2.03	ZZ
PRS6PG		567.0	-1.5	-0.06	578.5	6.7	0.25	ZZ
QAZ4RX		605.2	36.7	1.41	604.9	33.0	1.24	ZZ
QK7NJT		611.0	42.5	1.64	624.5	52.7	1.98	ZZ
QUPELJ		545.9	-22.6	-0.87	536.0	-35.9	-1.35	ZZ
QUSSGT		617.4	48.9	1.88	620.9	49.0	1.85	ZZ
QWTPH2	X	948.0	379.5	14.60	911.5	339.7	12.78	ZZ
QYLFWT		597.0	28.5	1.10	602.5	30.7	1.15	ZZ
QYXGAE	*	515.5	-53.0	-2.04	505.5	-66.3	-2.50	ZZ
R3EEGN		575.5	7.0	0.27	577.5	5.7	0.21	ZZ
R3S3NF	*	588.5	20.0	0.77	568.0	-3.8	-0.14	ZZ
R4G2DT		610.0	41.5	1.60	608.5	36.7	1.38	ZZ
R6UYFW		619.5	51.0	1.96	618.0	46.2	1.74	ZZ
RME5GP		578.5	10.0	0.38	575.0	3.2	0.12	ZZ
RVJSUA		557.5	-11.0	-0.42	550.0	-21.8	-0.82	ZZ
RXC7C6		603.5	35.0	1.35	610.5	38.7	1.46	ZZ
SHK6UC		567.5	-1.0	-0.04	557.5	-14.3	-0.54	ZZ
SQKJN1	*	609.0	40.5	1.56	591.0	19.2	0.72	ZZ
ST8VZC		565.5	-3.0	-0.12	566.5	-5.3	-0.20	ZZ
T5DWRH		573.0	4.5	0.17	573.0	1.2	0.04	ZZ
TTGTMN		596.0	27.5	1.06	607.0	35.2	1.32	ZZ
U9KGZS		599.5	31.0	1.19	606.0	34.2	1.29	ZZ
UEEDPJ		566.5	-2.0	-0.08	577.0	5.2	0.20	ZZ
UVPXRG		563.5	-5.0	-0.19	566.0	-5.8	-0.22	ZZ
UZMDE		586.0	17.5	0.67	593.5	21.7	0.82	ZZ
V6LNYM		602.5	34.0	1.31	598.5	26.7	1.00	ZZ
VAZY1C		546.5	-22.0	-0.85	555.0	-16.8	-0.63	ZZ
VDEKKJ	X	477.5	-91.0	-3.50	479.0	-92.8	-3.49	ZZ
VH5KBE		558.0	-10.5	-0.40	566.0	-5.8	-0.22	ZZ
VKJ2WX		545.5	-23.0	-0.89	563.0	-8.8	-0.33	ZZ
VMDZR4	X	609.5	41.0	1.58	583.0	11.2	0.42	ZZ
W1BCSL	X	495.0	-73.5	-2.83	435.0	-136.8	-5.15	ZZ
WTSRBE		548.0	-20.5	-0.79	562.5	-9.3	-0.35	ZZ
XDREDV		574.5	6.0	0.23	578.5	6.7	0.25	ZZ

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XSM12R		508.5	-60.0	-2.31	517.5	-54.3	-2.04	ZZ
Y8KPM		554.5	-14.0	-0.54	559.5	-12.3	-0.46	ZZ
YJCP2Y		574.0	5.5	0.21	571.5	-0.3	-0.01	ZZ
ZPJ2JB		533.7	-34.8	-1.34	541.0	-30.9	-1.16	ZZ
ZQUM5D		519.0	-49.5	-1.91	531.0	-40.8	-1.54	ZZ
ZWA9FG		528.5	-40.0	-1.54	515.5	-56.3	-2.12	ZZ

Grand Means		Summary Statistics	
	568.50 percent		571.82 percent
Std Dev Btwn Labs			
	25.99 percent		26.57 percent
Statistics based on 103 of 111 reporting participants			

Samples A71-A72: Polyisoprene compound, batch #1 & A73-A74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #606

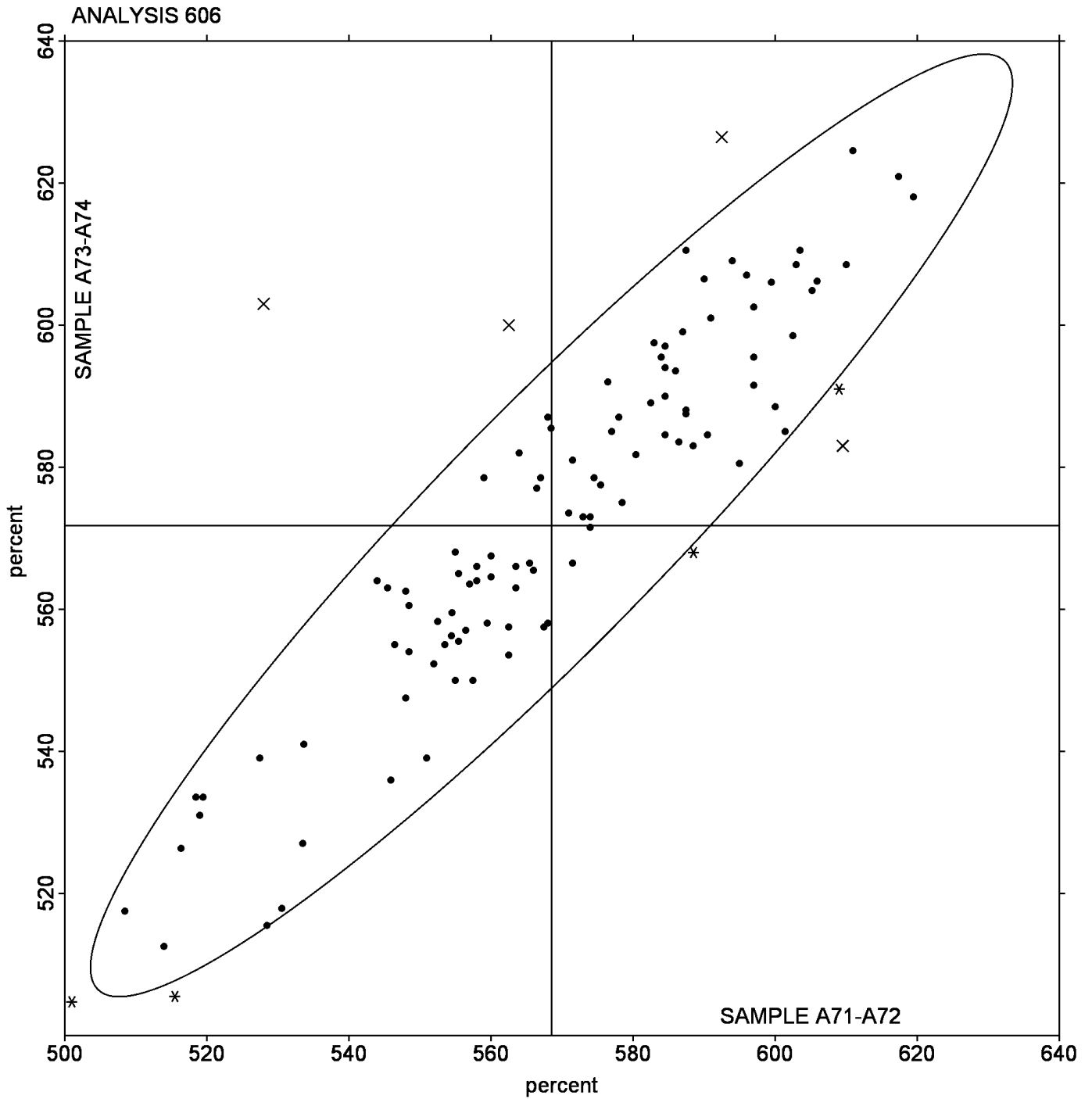
- A9U97M (X) - Inconsistency in testing between Sample sets.
- CEZVJ3 (X) - Data for all Samples are high.
- D3ZJQL (X) - Inconsistency in testing between Sample sets. Also inconsistency in testing within Sample Set A71-A72.
- DKW7EX (X) - Inconsistency in testing between Sample sets.
- QWTPH2 (X) - Data for all Samples are high. Also inconsistency in testing within Sample Set A71-A72.
- VDEKKJ (X) - Data for all Samples are low. Possible Systematic Error.
- VMDZR4 (X) - Inconsistency in testing between Sample sets.
- W1BCSL (X) - Data for all Samples are low. Also inconsistent in testing within Sample Set A71-A72.

Analysis 606

Ultimate Elongation (percent)

Grand Mean Sample A71-A72 = 568.50 percent

Grand Mean Sample A73-A74 = 571.82 percent



Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1DGL8K		1,243.6	28.0	0.34	1,220.6	15.5	0.20	ZZ
1JQ2H8		1,196.6	-19.1	-0.23	1,189.3	-15.8	-0.20	ZZ
1R9M1T		1,182.5	-33.1	-0.40	1,209.5	4.4	0.06	ZZ
24Q26C	*	1,446.5	230.9	2.78	1,412.0	206.9	2.63	ZZ
25AG8M	*	1,009.5	-206.1	-2.48	1,002.0	-203.1	-2.59	ZZ
3DQAMG		1,145.5	-70.1	-0.85	1,163.5	-41.6	-0.53	ZZ
3GNX1C		1,163.5	-52.1	-0.63	1,158.5	-46.6	-0.59	ZZ
3RXB4S		1,273.0	57.4	0.69	1,251.5	46.4	0.59	ZZ
3U51T2		1,198.0	-17.6	-0.21	1,203.5	-1.6	-0.02	ZZ
422ZXV	X	1,144.5	-71.1	-0.86	1,253.0	47.9	0.61	ZZ
47Q82E		1,165.5	-50.2	-0.60	1,200.2	-4.9	-0.06	ZZ
4A3NCL		1,258.5	42.9	0.52	1,264.0	58.9	0.75	ZZ
4UMEVJ		1,192.5	-23.1	-0.28	1,190.5	-14.6	-0.19	ZZ
4VB89U	*	1,432.5	216.9	2.61	1,425.0	219.9	2.80	ZZ
6BDZF9		1,131.0	-84.6	-1.02	1,140.5	-64.6	-0.82	ZZ
6LKVHE	*	1,442.4	226.8	2.73	1,433.0	227.9	2.90	ZZ
72MDUQ		1,252.5	36.9	0.44	1,266.0	60.9	0.78	ZZ
74SH66		1,298.1	82.5	0.99	1,261.8	56.7	0.72	ZZ
7C4NB9		1,284.3	68.7	0.83	1,260.4	55.3	0.70	ZZ
8JV79B		1,150.0	-65.6	-0.79	1,140.0	-65.1	-0.83	ZZ
8RSVB9	*	969.0	-246.6	-2.97	966.0	-239.1	-3.04	ZZ
9RGKL3		1,133.0	-82.6	-1.00	1,156.5	-48.6	-0.62	ZZ
A1A1D5	X	1,338.5	122.9	1.48	1,197.0	-8.1	-0.10	ZZ
A3NHXP		1,259.7	44.0	0.53	1,218.3	13.2	0.17	ZZ
AAQ6XM		1,198.0	-17.6	-0.21	1,210.4	5.3	0.07	ZZ
ALWSE		1,175.5	-40.1	-0.48	1,194.0	-11.1	-0.14	ZZ
AP6LYE		1,228.5	12.9	0.15	1,188.5	-16.6	-0.21	ZZ
ARYZH4		1,192.2	-23.4	-0.28	1,178.4	-26.7	-0.34	ZZ
AXJMC3		1,368.0	152.4	1.84	1,304.0	98.9	1.26	ZZ
B8H24Y	*	1,436.0	220.4	2.66	1,443.5	238.4	3.04	ZZ
BBW7C6		1,173.5	-42.1	-0.51	1,177.0	-28.1	-0.36	ZZ
BSMGW4		1,232.5	16.9	0.20	1,195.0	-10.1	-0.13	ZZ
CBD4DS		1,185.0	-30.6	-0.37	1,149.5	-55.6	-0.71	ZZ
CG3TSA		1,135.0	-80.6	-0.97	1,165.0	-40.1	-0.51	ZZ
CU7GVK		1,143.5	-72.1	-0.87	1,102.5	-102.6	-1.31	ZZ

Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CWC9JQ		1,281.1	65.4	0.79	1,249.4	44.4	0.56	ZZ
DB1V3W		1,147.0	-68.6	-0.83	1,203.9	-1.2	-0.02	ZZ
DJDRZQ		1,204.5	-11.1	-0.13	1,186.0	-19.1	-0.24	ZZ
ELHWW		1,300.3	84.6	1.02	1,249.5	44.4	0.57	ZZ
EWQKBE		1,160.5	-55.1	-0.66	1,140.0	-65.1	-0.83	ZZ
FJKX7B		1,244.1	28.5	0.34	1,217.9	12.8	0.16	ZZ
FV9XMS	*	1,139.0	-76.6	-0.92	1,225.5	20.4	0.26	ZZ
G1DBQ8		1,235.0	19.4	0.23	1,179.5	-25.6	-0.33	ZZ
GF6L37		1,363.0	147.4	1.78	1,326.0	120.9	1.54	ZZ
GJBGAW		1,175.0	-40.6	-0.49	1,142.0	-63.1	-0.80	ZZ
GTGJFT		1,169.0	-46.6	-0.56	1,222.5	17.4	0.22	ZZ
GWY8Q		1,208.0	-7.6	-0.09	1,198.5	-6.6	-0.08	ZZ
H1CN1H		1,137.5	-78.1	-0.94	1,142.0	-63.1	-0.80	ZZ
H8DZ9L		1,289.0	73.4	0.88	1,241.5	36.4	0.46	ZZ
HHNCJ3		1,129.9	-85.8	-1.03	1,176.3	-28.8	-0.37	ZZ
J7RVVS		1,154.9	-60.8	-0.73	1,134.0	-71.1	-0.91	ZZ
JXK3HR		1,290.0	74.4	0.90	1,261.0	55.9	0.71	ZZ
JZEX78	*	1,117.0	-98.6	-1.19	1,198.5	-6.6	-0.08	ZZ
KDEDU8		1,219.5	3.9	0.05	1,178.5	-26.6	-0.34	ZZ
KPE8K5		1,220.0	4.4	0.05	1,185.5	-19.6	-0.25	ZZ
L519KF		1,263.0	47.4	0.57	1,274.5	69.4	0.88	ZZ
LH7VNB		1,124.1	-91.6	-1.10	1,116.8	-88.3	-1.12	ZZ
LKTMR2		1,194.5	-21.1	-0.25	1,211.0	5.9	0.08	ZZ
LSGGGT		1,192.5	-23.1	-0.28	1,145.5	-59.6	-0.76	ZZ
LVB69E		1,386.3	170.6	2.06	1,392.8	187.7	2.39	ZZ
M8KFYV		1,078.6	-137.0	-1.65	1,049.4	-155.7	-1.98	ZZ
MMYZ4F		1,208.0	-7.6	-0.09	1,187.0	-18.1	-0.23	ZZ
MYHCD		1,169.4	-46.3	-0.56	1,122.2	-82.9	-1.06	ZZ
N1ERAG	X	1,360.5	144.9	1.75	1,436.5	231.4	2.95	ZZ
NA2J3Y		1,226.5	10.9	0.13	1,177.0	-28.1	-0.36	ZZ
NAMS39		1,312.0	96.4	1.16	1,273.0	67.9	0.86	ZZ
NJX8EF		1,188.0	-27.6	-0.33	1,204.0	-1.1	-0.01	ZZ
NQYCE		1,221.5	5.9	0.07	1,167.5	-37.6	-0.48	ZZ
NY1TVR		1,182.9	-32.7	-0.39	1,170.9	-34.2	-0.44	ZZ
P7D4WJ		1,192.0	-23.6	-0.29	1,200.5	-4.6	-0.06	ZZ

Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
P8AC98		1,221.5	5.9	0.07	1,279.5	74.4	0.95	ZZ
PC7WDS		1,235.0	19.4	0.23	1,255.0	49.9	0.64	ZZ
PJDZA1		1,179.5	-36.1	-0.44	1,158.5	-46.6	-0.59	ZZ
PK33Q6		1,142.9	-72.8	-0.88	1,114.3	-90.8	-1.16	ZZ
PRQTAF		1,186.1	-29.5	-0.36	1,165.6	-39.5	-0.50	ZZ
PSQSL2		1,243.0	27.4	0.33	1,265.5	60.4	0.77	ZZ
PVGNY		1,299.0	83.4	1.00	1,259.5	54.4	0.69	ZZ
PY9ECD		1,275.0	59.4	0.72	1,263.0	57.9	0.74	ZZ
QPDWB		1,319.5	103.9	1.25	1,344.5	139.4	1.78	ZZ
QX8B99		1,202.0	-13.6	-0.16	1,149.0	-56.1	-0.71	ZZ
R16EBF		1,219.5	3.9	0.05	1,188.5	-16.6	-0.21	ZZ
RPUJ4P		1,218.3	2.7	0.03	1,235.7	30.6	0.39	ZZ
RQMEPE		1,145.5	-70.1	-0.85	1,106.0	-99.1	-1.26	ZZ
SMMJMP		1,211.0	-4.6	-0.06	1,236.5	31.4	0.40	ZZ
T8XYK7		1,204.5	-11.1	-0.13	1,255.0	49.9	0.64	ZZ
THT9JQ	X	2,873.5	1,657.9	19.98	2,731.5	1,526.4	19.44	ZZ
TR4LKT		1,205.5	-10.1	-0.12	1,228.0	22.9	0.29	ZZ
UVF79X		1,160.3	-55.3	-0.67	1,138.6	-66.5	-0.85	ZZ
V6226Y		1,206.5	-9.1	-0.11	1,175.5	-29.6	-0.38	ZZ
VTAHLZ		1,150.0	-65.6	-0.79	1,200.0	-5.1	-0.06	ZZ
W8JR1V		1,248.0	32.4	0.39	1,176.5	-28.6	-0.36	ZZ
WABHF		1,233.5	17.9	0.22	1,226.0	20.9	0.27	ZZ
WF3NAA		1,223.4	7.8	0.09	1,227.0	21.9	0.28	ZZ
WF48TR		1,336.5	120.9	1.46	1,254.0	48.9	0.62	ZZ
WKHUJP	*	1,201.6	-14.0	-0.17	1,091.4	-113.7	-1.45	ZZ
WNEKG		1,326.0	110.4	1.33	1,274.5	69.4	0.88	ZZ
X57DEL		1,152.0	-63.6	-0.77	1,135.5	-69.6	-0.89	ZZ
X8FSGE		1,232.5	16.8	0.20	1,171.3	-33.8	-0.43	ZZ
XGWXJK		1,169.5	-46.1	-0.56	1,177.5	-27.6	-0.35	ZZ
XLAYV		1,245.0	29.4	0.35	1,275.0	69.9	0.89	ZZ
YE465T	*	1,009.9	-205.8	-2.48	1,066.7	-138.3	-1.76	ZZ
YFDW7N		1,260.4	44.7	0.54	1,249.5	44.4	0.57	ZZ
YW6GW		1,111.0	-104.6	-1.26	1,155.5	-49.6	-0.63	ZZ
Z1DES9		1,222.2	6.6	0.08	1,178.7	-26.4	-0.34	ZZ
Z8DSLX		1,228.5	12.9	0.15	1,148.0	-57.1	-0.73	ZZ

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ZA2MFX		1,191.5	-24.1	-0.29	1,203.5	-1.6	-0.02	ZZ
ZKMOV28		1,330.5	114.9	1.38	1,303.0	97.9	1.25	ZZ
ZKSACL	X	1,406.0	190.4	2.29	1,455.0	249.9	3.18	ZZ
ZSAYKG		1,262.0	46.4	0.56	1,207.5	2.4	0.03	ZZ

Grand Means		Summary Statistics	
	1,215.65 psi		1,205.09 psi
Std Dev Btwn Labs			78.53 psi
	82.96 psi	Statistics based on 104 of 109 reporting participants	

Grand Means		Summary Statistics in SI Units	
	8.3815 MPa		8.31 MPa
Std Dev Btwn Labs			0.54 MPa
	0.5720 MPa	Statistics based on 104 of 109 reporting participants	

Samples A71-A72: Polyisoprene compound, batch #1 & A73-A74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #607

422ZXV (X) - Inconsistency in testing between Sample sets.

A1A1D5 (X) - Inconsistency in testing between Sample sets.

N1ERAG (X) - Inconsistency in testing between Sample sets. Data for Sample Set A73-A74 are high.

THT9JQ (X) - Data for all Samples are high.

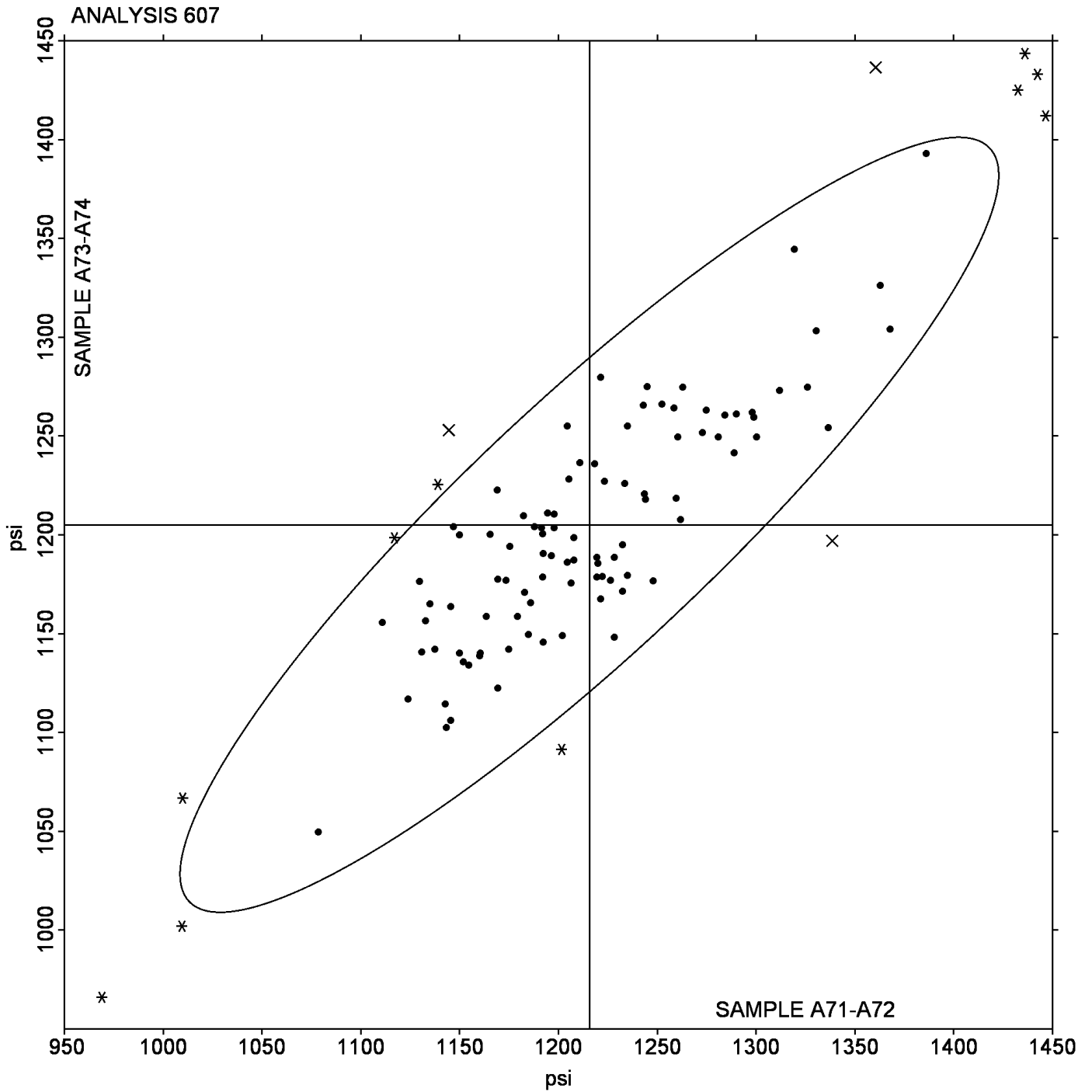
ZKSACL (X) - Inconsistency in testing between Sample sets. Data for Sample Set A73-A74 are high. Also Inconsistency in testing within Sample Set A73-A74.

Analysis 607

Stress at 300% Elongation (psi)

Grand Mean Sample A71-A72 = 1,215.65 psi

Grand Mean Sample A73-A74 = 1,205.09 psi



Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
17118T	X	319.0	65.3	5.08	308.5	55.4	4.39	ZZ
2CHVHW		250.2	-3.5	-0.27	254.5	1.4	0.11	ZZ
2GNTEP		266.0	12.3	0.96	262.5	9.4	0.74	ZZ
2RED98		267.5	13.8	1.07	261.0	7.9	0.62	ZZ
34PCS7		244.5	-9.2	-0.71	254.5	1.4	0.11	ZZ
3AB3D3		240.6	-13.1	-1.02	242.4	-10.8	-0.85	ZZ
3AYLFG		233.0	-20.7	-1.61	232.0	-21.1	-1.67	ZZ
3RMTL2		265.0	11.3	0.88	256.5	3.4	0.27	ZZ
4BHCTX		263.8	10.1	0.79	268.2	15.1	1.19	ZZ
4H3ALU		243.5	-10.2	-0.79	251.0	-2.1	-0.17	ZZ
4HK6N8		268.3	14.7	1.14	253.8	0.7	0.05	ZZ
4SCXDU	X	295.0	41.3	3.21	307.5	54.4	4.31	ZZ
5SSXBV		247.5	-6.2	-0.48	254.0	0.9	0.07	ZZ
5T9XLC		257.0	3.3	0.26	255.5	2.4	0.19	ZZ
65BHTP		261.5	7.8	0.61	260.0	6.9	0.54	ZZ
6BY8FK		255.0	1.3	0.10	242.5	-10.6	-0.84	ZZ
6FFY8E		253.8	0.2	0.01	259.6	6.5	0.51	ZZ
6JQV39		259.0	5.3	0.41	252.5	-0.6	-0.05	ZZ
6ZL45F		264.0	10.3	0.80	254.0	0.9	0.07	ZZ
7D2XFC		285.1	31.4	2.44	274.3	21.2	1.68	ZZ
7D4NMV		253.0	-0.7	-0.05	253.0	-0.1	-0.01	ZZ
7FED4C		232.0	-21.7	-1.68	232.0	-21.1	-1.67	ZZ
7GGZWB	X	298.0	44.3	3.44	302.0	48.9	3.87	ZZ
7TFQ1Q		239.3	-14.3	-1.11	239.3	-13.8	-1.09	ZZ
7TU1UP		237.5	-16.2	-1.26	245.0	-8.1	-0.64	ZZ
7VCAFJ		270.0	16.3	1.27	257.4	4.3	0.34	ZZ
7WEDRS		254.0	0.3	0.03	247.0	-6.1	-0.49	ZZ
81XPKF	*	223.0	-30.7	-2.38	219.5	-33.6	-2.67	ZZ
8JNLMX		245.5	-8.2	-0.63	240.0	-13.1	-1.04	ZZ
8SD43P		250.5	-3.2	-0.25	260.0	6.9	0.54	ZZ
94QTD1		239.3	-14.3	-1.11	239.3	-13.8	-1.09	ZZ
9B2MDF		259.5	5.8	0.45	255.5	2.4	0.19	ZZ
9XG4JS		263.0	9.3	0.73	259.5	6.4	0.51	ZZ
9YGVZ8		254.5	0.9	0.07	258.9	5.8	0.46	ZZ
A1KH4J		267.5	13.8	1.07	263.0	9.9	0.78	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
AAMNR		252.4	-1.3	-0.10	250.2	-2.9	-0.23	ZZ
ABKYKT		248.0	-5.7	-0.44	241.0	-12.1	-0.96	ZZ
ACD456		248.7	-4.9	-0.38	253.8	0.7	0.05	ZZ
AM15JW		273.5	19.8	1.54	267.5	14.4	1.14	ZZ
ATJAF3		280.5	26.8	2.08	277.5	24.4	1.93	ZZ
AUPJ11		253.2	-0.4	-0.03	256.6	3.4	0.27	ZZ
BECBUV		242.0	-11.7	-0.91	261.5	8.4	0.66	ZZ
BZ5L5Q	*	270.5	16.8	1.31	285.0	31.9	2.53	ZZ
DRGBED		240.0	-13.7	-1.06	252.5	-0.6	-0.05	ZZ
E9YJK8	X	297.5	43.8	3.41	275.0	21.9	1.73	ZZ
EG4CX3		223.5	-30.2	-2.34	225.0	-28.1	-2.23	ZZ
EKG1CE		262.5	8.8	0.69	265.0	11.9	0.94	ZZ
ELWC1B		262.7	9.1	0.70	255.2	2.1	0.16	ZZ
ETY8DH		249.0	-4.7	-0.36	251.5	-1.6	-0.13	ZZ
F2Y1L3		242.4	-11.3	-0.88	253.0	-0.1	-0.01	ZZ
F9TKSJ		239.5	-14.2	-1.10	241.5	-11.6	-0.92	ZZ
G11HCT	*	248.7	-4.9	-0.38	226.3	-26.9	-2.13	ZZ
G2RF8J		249.5	-4.2	-0.32	261.5	8.4	0.66	ZZ
G4N5ZE		257.4	3.8	0.29	256.0	2.9	0.23	ZZ
GA94H1	X	668.0	414.3	32.19	618.0	364.9	28.92	ZZ
GBGBGU		246.0	-7.7	-0.60	251.0	-2.1	-0.17	ZZ
GGSDSN		249.5	-4.2	-0.32	250.0	-3.1	-0.25	ZZ
GNSYBD		247.6	-6.0	-0.47	244.3	-8.9	-0.70	ZZ
H2Q6AE		252.5	-1.2	-0.09	264.5	11.4	0.90	ZZ
H6MSZW		252.0	-1.7	-0.13	251.0	-2.1	-0.17	ZZ
H73DMY		258.0	4.3	0.34	260.0	6.9	0.54	ZZ
J7BXZ2		250.8	-2.9	-0.23	248.9	-4.2	-0.33	ZZ
JKJYHD		249.0	-4.7	-0.36	239.5	-13.6	-1.08	ZZ
KFTYHV		244.0	-9.7	-0.75	243.0	-10.1	-0.80	ZZ
KZBVEZ	X	303.0	49.3	3.83	313.5	60.4	4.79	ZZ
L2N9UU	*	276.0	22.3	1.74	251.5	-1.6	-0.13	ZZ
L9DSHW		249.5	-4.2	-0.32	251.5	-1.6	-0.13	ZZ
LY58W2		244.5	-9.2	-0.71	257.5	4.4	0.35	ZZ
M7538C		265.0	11.3	0.88	256.0	2.9	0.23	ZZ
M7L144		248.9	-4.8	-0.37	241.8	-11.3	-0.90	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
N3RTNM		284.5	30.8	2.40	276.0	22.9	1.81	ZZ
NC8PB1		239.3	-14.3	-1.11	248.0	-5.1	-0.40	ZZ
NGMB2Y		238.5	-15.2	-1.18	243.0	-10.1	-0.80	ZZ
PY6DA7		253.5	-0.2	-0.01	239.0	-14.1	-1.12	ZZ
Q23XQY		248.0	-5.7	-0.44	244.5	-8.6	-0.68	ZZ
Q94FKV	X	319.8	66.1	5.14	321.3	68.1	5.40	ZZ
QJNL1C	*	281.0	27.3	2.12	285.0	31.9	2.53	ZZ
QLUD56		270.0	16.3	1.27	265.0	11.9	0.94	ZZ
R3EWMS		277.5	23.8	1.85	280.5	27.4	2.17	ZZ
RRV6FM		260.0	6.3	0.49	256.5	3.4	0.27	ZZ
RX2TDH		259.5	5.8	0.45	243.5	-9.6	-0.76	ZZ
S1M581		258.5	4.8	0.38	253.0	-0.1	-0.01	ZZ
SFFV3V		236.0	-17.7	-1.37	243.0	-10.1	-0.80	ZZ
T3L16S		259.0	5.3	0.41	254.5	1.4	0.11	ZZ
T95T6D		258.5	4.8	0.38	261.0	7.9	0.62	ZZ
TDK8UJ		253.5	-0.2	-0.01	247.5	-5.6	-0.45	ZZ
TJXDL7		266.0	12.3	0.96	267.5	14.4	1.14	ZZ
TMJL1E		251.0	-2.7	-0.21	255.0	1.9	0.15	ZZ
U5G8DJ		248.5	-5.2	-0.40	241.5	-11.6	-0.92	ZZ
UC9GQ9		251.5	-2.2	-0.17	249.5	-3.6	-0.29	ZZ
UKKCCA	*	273.5	19.8	1.54	286.0	32.9	2.61	ZZ
UUS315		249.5	-4.2	-0.32	251.0	-2.1	-0.17	ZZ
UZFSEM		247.5	-6.2	-0.48	253.0	-0.1	-0.01	ZZ
V3JDZL	*	255.0	1.3	0.10	275.0	21.9	1.73	ZZ
VGBAHH		254.3	0.6	0.05	251.0	-2.1	-0.17	ZZ
WC29HY		263.5	9.8	0.76	270.0	16.9	1.34	ZZ
WDW9K		250.0	-3.7	-0.28	253.0	-0.1	-0.01	ZZ
WKF9KN		279.5	25.8	2.01	270.5	17.4	1.38	ZZ
X54BE8		247.3	-6.4	-0.50	251.6	-1.5	-0.12	ZZ
X9TEYT		239.3	-14.3	-1.11	232.1	-21.1	-1.67	ZZ
XPPWQC		240.5	-13.1	-1.02	243.2	-9.9	-0.79	ZZ
XWBAG		243.8	-9.9	-0.77	240.9	-12.3	-0.97	ZZ
YGB615		255.0	1.3	0.10	256.5	3.4	0.27	ZZ
ZC95DT		238.5	-15.2	-1.18	236.0	-17.1	-1.36	ZZ
ZNVFAM		229.0	-24.7	-1.92	245.0	-8.1	-0.64	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ZV8MGQ		269.5	15.8	1.23	262.5	9.4	0.74	ZZ
ZXE3W9		259.8	6.1	0.48	250.9	-2.2	-0.18	ZZ
ZXHGTH		238.9	-14.7	-1.14	234.6	-18.5	-1.47	ZZ

		Summary Statistics	
Grand Means	253.66 psi		253.12 psi
Std Dev Btwn Labs	12.87 psi		12.62 psi
Statistics based on 101 of 108 reporting participants			

		Summary Statistics in SI Units	
Grand Means	1.7489 MPa		1.75 MPa
Std Dev Btwn Labs	0.0888 MPa		0.09 MPa
Statistics based on 101 of 108 reporting participants			

Samples A71-A72: Polyisoprene compound, batch #1 & A73-A74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #608

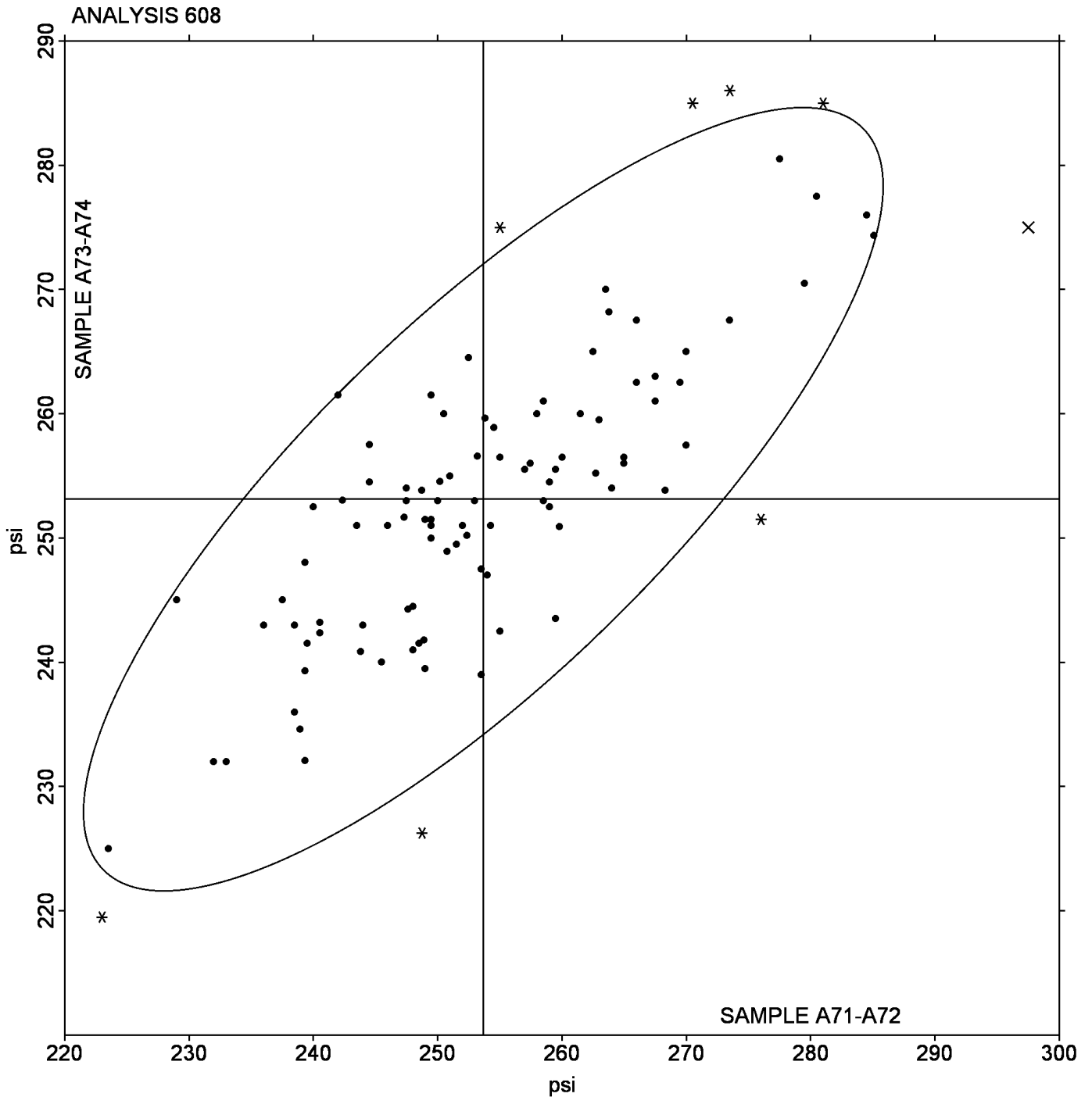
- 17118T (X) - Data for all Samples are high.
- 4SCXDU (X) - Data for all Samples are high.
- 7GGZWB (X) - Data for all Samples are high. Possible Systematic Error.
- E9YJK8 (X) - Inconsistency in testing between Sample sets. Data for Sample Sets A71-A72 are high.
- GA94H1 (X) - Data for all Samples are high.
- KZBVEZ (X) - Data for all Samples are high.
- Q94FKV (X) - Data for all Samples are high.

Analysis 608

Stress at 100% Elongation (psi)

Grand Mean Sample A71-A72 = 253.66 psi

Grand Mean Sample A73-A74 = 253.12 psi



Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
13Y3TS		53.70	0.06	0.04	53.50	-0.19	-0.11	ZZ
15ERFM		53.60	-0.04	-0.03	53.80	0.11	0.07	ZZ
1VMYNE	X	53.00	-0.64	-0.40	50.50	-3.19	-1.95	ZZ
21TU6W		54.50	0.86	0.54	53.50	-0.19	-0.11	ZZ
2H4CN7		55.00	1.36	0.85	54.50	0.81	0.50	ZZ
2MFPNP		50.40	-3.24	-2.04	50.45	-3.24	-1.98	ZZ
2SQV9M		53.00	-0.64	-0.40	52.50	-1.19	-0.73	ZZ
3362LG		53.25	-0.39	-0.25	53.25	-0.44	-0.27	ZZ
37L6GV		52.50	-1.14	-0.72	53.00	-0.69	-0.42	ZZ
38MU6M		53.50	-0.14	-0.09	53.25	-0.44	-0.27	ZZ
3L9829		53.00	-0.64	-0.40	53.00	-0.69	-0.42	ZZ
4YW1GN		53.00	-0.64	-0.40	53.00	-0.69	-0.42	ZZ
549G7C		55.00	1.36	0.85	54.50	0.81	0.50	ZZ
58PNM5		53.65	0.01	0.01	54.10	0.41	0.25	ZZ
5Q3KG6		53.65	0.01	0.01	53.60	-0.09	-0.05	ZZ
5SWG AJ	*	56.00	2.36	1.48	55.00	1.31	0.80	ZZ
6D17RC		52.00	-1.64	-1.03	52.00	-1.69	-1.03	ZZ
6TE2VS		55.00	1.36	0.85	55.00	1.31	0.80	ZZ
72Z785		53.25	-0.39	-0.25	54.45	0.76	0.47	ZZ
7B8ECL		53.50	-0.14	-0.09	53.50	-0.19	-0.11	ZZ
7EC6LL		52.90	-0.74	-0.47	52.85	-0.84	-0.51	ZZ
7PM4E2		53.95	0.31	0.19	53.80	0.11	0.07	ZZ
85RVUB		54.00	0.36	0.23	55.00	1.31	0.80	ZZ
85TL1U		56.00	2.36	1.48	56.00	2.31	1.42	ZZ
8EAV59		53.95	0.31	0.19	53.40	-0.29	-0.17	ZZ
8EPQWN		52.40	-1.24	-0.78	52.10	-1.59	-0.97	ZZ
8J3ZWS		53.80	0.16	0.10	53.40	-0.29	-0.17	ZZ
8MPJY8		54.35	0.71	0.45	54.50	0.81	0.50	ZZ
96ENAM		51.70	-1.94	-1.22	51.25	-2.44	-1.49	ZZ
9CH4RG		51.00	-2.64	-1.66	51.00	-2.69	-1.64	ZZ
9CZR8G		55.50	1.86	1.17	56.00	2.31	1.42	ZZ
A9BVNW		52.45	-1.19	-0.75	52.75	-0.94	-0.57	ZZ
BCQ3YV		55.00	1.36	0.85	55.00	1.31	0.80	ZZ
BMERTY	X	58.65	5.01	3.15	54.75	1.06	0.65	ZZ
BU3UB7		55.50	1.86	1.17	56.00	2.31	1.42	ZZ

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BUDB2L		52.50	-1.14	-0.72	52.50	-1.19	-0.73	ZZ
BYRBU4		52.40	-1.24	-0.78	52.50	-1.19	-0.73	ZZ
C1YR5H		52.00	-1.64	-1.03	52.50	-1.19	-0.73	ZZ
DUCHP4		52.00	-1.64	-1.03	52.00	-1.69	-1.03	ZZ
DVESTT		54.50	0.86	0.54	54.50	0.81	0.50	ZZ
ELVK5Q		53.00	-0.64	-0.40	52.00	-1.69	-1.03	ZZ
F1NGY7		56.00	2.36	1.48	56.50	2.81	1.72	ZZ
F2WAEK		54.50	0.86	0.54	55.00	1.31	0.80	ZZ
FGQZAJ		55.00	1.36	0.85	55.50	1.81	1.11	ZZ
G46YSC		52.00	-1.64	-1.03	52.00	-1.69	-1.03	ZZ
G7H7GV		53.90	0.26	0.16	53.55	-0.14	-0.08	ZZ
GAJT8L		53.50	-0.14	-0.09	53.50	-0.19	-0.11	ZZ
GCBKM		53.00	-0.64	-0.40	53.00	-0.69	-0.42	ZZ
GK11MT		55.50	1.86	1.17	56.00	2.31	1.42	ZZ
GUXRQG		52.65	-0.99	-0.62	52.95	-0.74	-0.45	ZZ
HAGLW	*	54.00	0.36	0.23	55.50	1.81	1.11	ZZ
HVLYC4		55.50	1.86	1.17	56.00	2.31	1.42	ZZ
J8661B		56.00	2.36	1.48	56.00	2.31	1.42	ZZ
JCV8QY		54.00	0.36	0.23	54.75	1.06	0.65	ZZ
JK1ENL		55.00	1.36	0.85	55.00	1.31	0.80	ZZ
JU69WS		55.00	1.36	0.85	55.00	1.31	0.80	ZZ
K9T5GT		53.00	-0.64	-0.40	52.50	-1.19	-0.73	ZZ
KB6JD3		51.00	-2.64	-1.66	51.00	-2.69	-1.64	ZZ
KJ34AB		53.15	-0.49	-0.31	53.15	-0.54	-0.33	ZZ
KLUV P2		53.00	-0.64	-0.40	53.00	-0.69	-0.42	ZZ
KR1TTZ		55.00	1.36	0.85	54.00	0.31	0.19	ZZ
LE9NVH		51.00	-2.64	-1.66	50.50	-3.19	-1.95	ZZ
LHANX1		53.80	0.16	0.10	54.00	0.31	0.19	ZZ
LJAQ1B		54.20	0.56	0.35	53.95	0.26	0.16	ZZ
LLQ4PY		49.70	-3.94	-2.48	49.80	-3.89	-2.38	ZZ
LM4U9G		53.00	-0.64	-0.40	53.00	-0.69	-0.42	ZZ
LNVK63		53.60	-0.04	-0.03	53.35	-0.34	-0.21	ZZ
LVB67U		54.80	1.16	0.73	55.05	1.36	0.84	ZZ
LYVNFJ		52.50	-1.14	-0.72	53.00	-0.69	-0.42	ZZ
MCDRJT		52.00	-1.64	-1.03	51.00	-2.69	-1.64	ZZ

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MP9QJC		55.00	1.36	0.85	55.00	1.31	0.80	ZZ
MQU6A1		53.50	-0.14	-0.09	54.00	0.31	0.19	ZZ
MTC79T	*	51.90	-1.74	-1.10	53.15	-0.54	-0.33	ZZ
MX7DG4		53.00	-0.64	-0.40	54.00	0.31	0.19	ZZ
N7P9ZF		56.50	2.86	1.80	56.00	2.31	1.42	ZZ
NVNWVH		56.00	2.36	1.48	55.50	1.81	1.11	ZZ
P5NUXQ		53.00	-0.64	-0.40	53.50	-0.19	-0.11	ZZ
PFN2DU		54.50	0.86	0.54	54.50	0.81	0.50	ZZ
Q4ZH9V		56.00	2.36	1.48	55.50	1.81	1.11	ZZ
R79PW8		53.50	-0.14	-0.09	54.00	0.31	0.19	ZZ
SQ2Y9B	X	50.60	-3.04	-1.91	48.10	-5.59	-3.42	ZZ
SW7RLD		53.70	0.06	0.04	53.55	-0.14	-0.08	ZZ
T7TN8K		51.85	-1.79	-1.13	51.85	-1.84	-1.12	ZZ
TG6WJR		52.75	-0.89	-0.56	52.60	-1.09	-0.66	ZZ
TT7CEN		50.00	-3.64	-2.29	50.00	-3.69	-2.25	ZZ
U25JS8		55.50	1.86	1.17	55.50	1.81	1.11	ZZ
UQABQX		54.30	0.66	0.41	54.00	0.31	0.19	ZZ
UTK6T2		53.35	-0.29	-0.18	52.50	-1.19	-0.73	ZZ
UTW6CQ		55.00	1.36	0.85	55.00	1.31	0.80	ZZ
UXE9B8		51.50	-2.14	-1.35	51.00	-2.69	-1.64	ZZ
V3K6XT		54.60	0.96	0.60	55.10	1.41	0.87	ZZ
V62ANB		52.50	-1.14	-0.72	52.90	-0.79	-0.48	ZZ
VWD67J		55.00	1.36	0.85	54.50	0.81	0.50	ZZ
W3D764		52.50	-1.14	-0.72	53.00	-0.69	-0.42	ZZ
W4AAS7		53.50	-0.14	-0.09	53.50	-0.19	-0.11	ZZ
W5L9P2		52.30	-1.34	-0.84	53.05	-0.64	-0.39	ZZ
WAUYJ9		51.50	-2.14	-1.35	51.00	-2.69	-1.64	ZZ
WLVY21		55.00	1.36	0.85	55.00	1.31	0.80	ZZ
X13CW3		54.00	0.36	0.23	54.50	0.81	0.50	ZZ
X6VZPA		55.00	1.36	0.85	55.00	1.31	0.80	ZZ
X9WHQ4		55.85	2.21	1.39	56.50	2.81	1.72	ZZ
XCUDHY		55.50	1.86	1.17	56.00	2.31	1.42	ZZ
XUM2YP		54.80	1.16	0.73	54.35	0.66	0.41	ZZ
YF3TUP		50.00	-3.64	-2.29	50.00	-3.69	-2.25	ZZ
YNCAZB	*	58.00	4.36	2.74	58.00	4.31	2.64	ZZ

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample A71-A72			Sample A73-A74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YRILCN		53.50	-0.14	-0.09	53.50	-0.19	-0.11	ZZ
ZSTUFE		51.50	-2.14	-1.35	51.55	-2.14	-1.31	ZZ
ZMTBCH		54.00	0.36	0.23	54.20	0.51	0.32	ZZ
ZTWHSL		57.00	3.36	2.11	57.00	3.31	2.03	ZZ
ZWNCY3	*	51.00	-2.64	-1.66	52.00	-1.69	-1.03	ZZ

Summary Statistics	
Grand Means	
53.641 Type A	53.685 Type A
Std Dev Btwn Labs	
1.590 Type A	1.634 Type A
Statistics based on 107 of 110 reporting participants	

Samples A71-A72: Polyisoprene compound, batch #1 & A73-A74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #620

1VMYNE (X) - Inconsistency in testing between Sample sets.

BMERTY (X) - Inconsistency in testing between Sample sets. Data for Sample Sets A71-A72 are high.

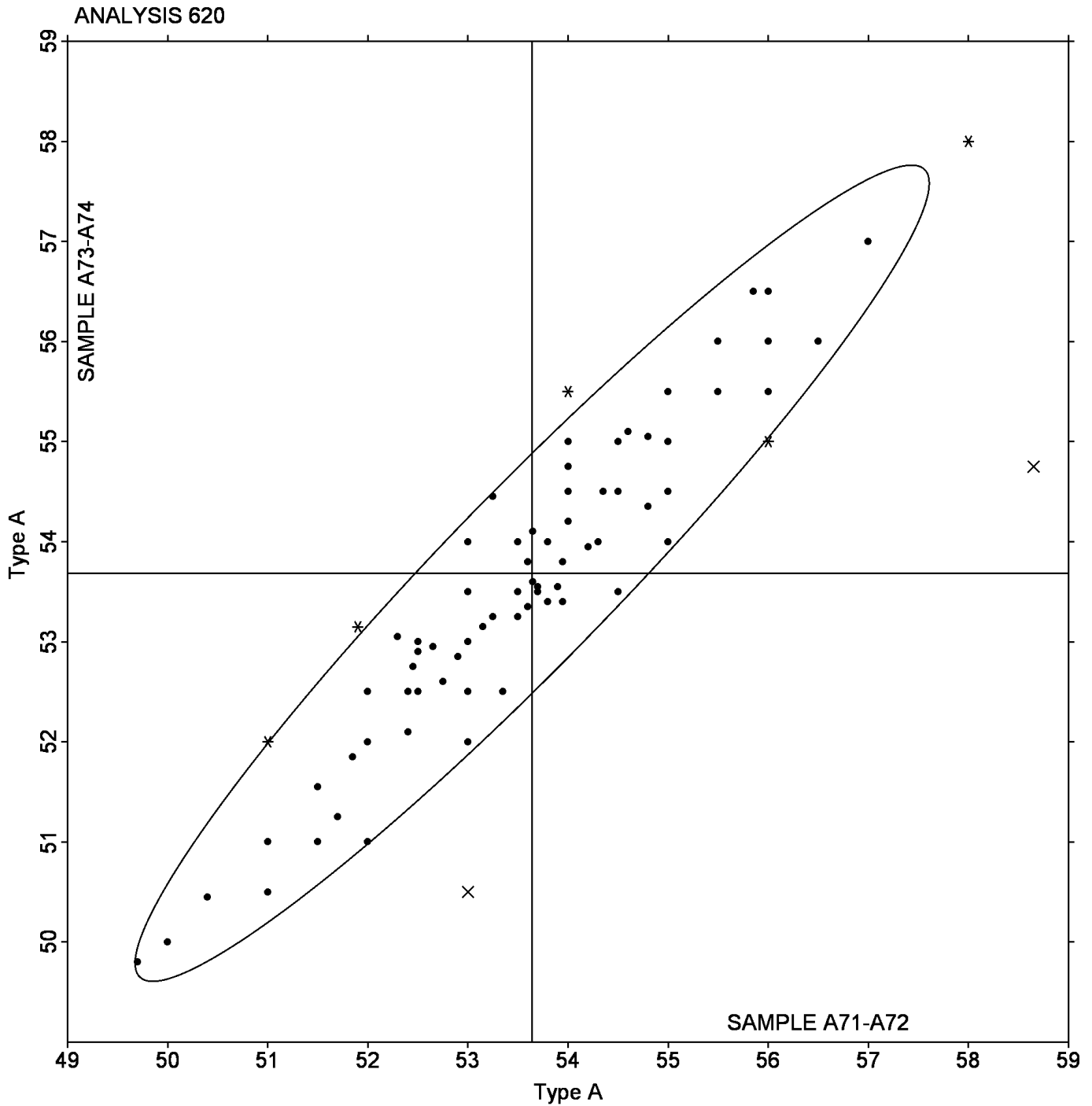
SQ2Y9B (X) - Inconsistency in testing between Sample sets. Data for Sample Sets A73-A74 are low.

Analysis 620

Hardness (Shore A/Type A)

Grand Mean Sample A71-A72 = 53.641 Type A

Grand Mean Sample A73-A74 = 53.685 Type A



Analysis 630

Tensile Strength: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample A71-A72			Sample J71-J72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
17HD5J		3,366.4	70.5	0.60	3,157.5	-31.1	-0.15	ZZ
3E5SN2		3,274.5	-21.3	-0.18	3,370.5	181.9	0.88	ZZ
3F16CD		3,081.5	-214.3	-1.84	3,127.5	-61.1	-0.29	ZZ
3G9X69		3,094.5	-201.3	-1.72	3,247.5	58.9	0.28	ZZ
4P6GYB		3,413.5	117.7	1.01	2,806.5	-382.1	-1.84	ZZ
5UYFAR		3,491.1	195.3	1.67	3,399.7	211.1	1.02	ZZ
78YR3V		3,382.0	86.2	0.74	3,564.0	375.4	1.81	ZZ
7EDLPR		3,458.5	162.7	1.39	3,252.0	63.4	0.31	ZZ
86VRUF		3,248.0	-47.8	-0.41	3,438.5	249.9	1.20	ZZ
8CHGGB		3,372.1	76.3	0.65	3,321.8	133.2	0.64	ZZ
94699S		3,308.8	13.0	0.11	3,447.9	259.3	1.25	ZZ
9MN6VE		3,339.0	43.2	0.37	3,272.0	83.4	0.40	ZZ
AZGRJ9		3,472.0	176.2	1.51	3,425.5	236.9	1.14	ZZ
CQYL8G		3,355.0	59.2	0.51	3,297.5	108.9	0.52	ZZ
CTZ49A		3,304.0	8.2	0.07	3,099.0	-89.6	-0.43	ZZ
DGG87H		3,260.0	-35.8	-0.31	3,176.5	-12.1	-0.06	ZZ
EAFQSB		3,191.1	-104.7	-0.90	3,216.5	27.9	0.13	ZZ
EKXR8Z		3,257.0	-38.8	-0.33	3,164.5	-24.1	-0.12	ZZ
FTWJNX		3,182.8	-113.1	-0.97	3,204.2	15.6	0.08	ZZ
GM2CG3		3,318.5	22.7	0.19	3,093.0	-95.6	-0.46	ZZ
JQTZWN		3,222.5	-73.3	-0.63	3,048.2	-140.4	-0.68	ZZ
JYBN65	X	2,592.0	-703.8	-6.03	2,539.0	-649.6	-3.13	ZZ
L5NLCM		3,039.8	-256.0	-2.19	2,942.3	-246.3	-1.19	ZZ
LAR2RU		3,379.4	83.6	0.72	3,335.9	147.3	0.71	ZZ
NFNLMY		3,272.5	-23.3	-0.20	3,274.5	85.9	0.41	ZZ
PCPRHU		3,342.0	46.2	0.40	2,709.5	-479.1	-2.31	ZZ
PHTZT9		3,259.0	-36.8	-0.32	3,218.0	29.4	0.14	ZZ
S2WV79		3,536.5	240.7	2.06	3,510.5	321.9	1.55	ZZ
S5ZY65		3,285.1	-10.7	-0.09	3,205.4	16.8	0.08	ZZ
SL6WX2		3,028.3	-267.6	-2.29	3,079.3	-109.3	-0.53	ZZ
UJWAU		3,314.5	18.7	0.16	3,228.6	40.0	0.19	ZZ
UW1QLJ	X	3,381.0	85.2	0.73	2,330.5	-858.1	-4.14	ZZ
V1STXG		3,206.0	-89.8	-0.77	3,116.0	-72.6	-0.35	ZZ
V6JYS5		3,387.0	91.2	0.78	3,286.0	97.4	0.47	ZZ
VULUAB		3,297.0	1.2	0.01	3,074.5	-114.1	-0.55	ZZ

Analysis 630

Tensile Strength: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample A71-A72			Sample J71-J72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
X4JBWX		3,259.0	-36.8	-0.32	2,736.0	-452.6	-2.18	ZZ
X6GHYB		3,322.0	26.2	0.22	3,351.0	162.4	0.78	ZZ
XPPQUC		3,296.0	0.2	0.00	3,001.0	-187.6	-0.90	ZZ
XX32Z3		3,339.5	43.7	0.37	3,356.5	167.9	0.81	ZZ
Y7QWX5	*	3,424.0	128.2	1.10	2,710.5	-478.1	-2.30	ZZ
ZL4FZ5		3,156.7	-139.1	-1.19	3,089.6	-99.0	-0.48	ZZ

Summary Statistics	
Grand Means	
3,295.82 psi	3,188.60 psi
Std Dev Btwn Labs	
116.71 psi	207.50 psi
Statistics based on 39 of 41 reporting participants	

Summary Statistics in SI Units	
Grand Means	
22.724 MPa	21.98 MPa
Std Dev Btwn Labs	
0.805 MPa	1.43 MPa
Statistics based on 39 of 41 reporting participants	

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #630

JYBN65 (X) - Data for all Samples are low.

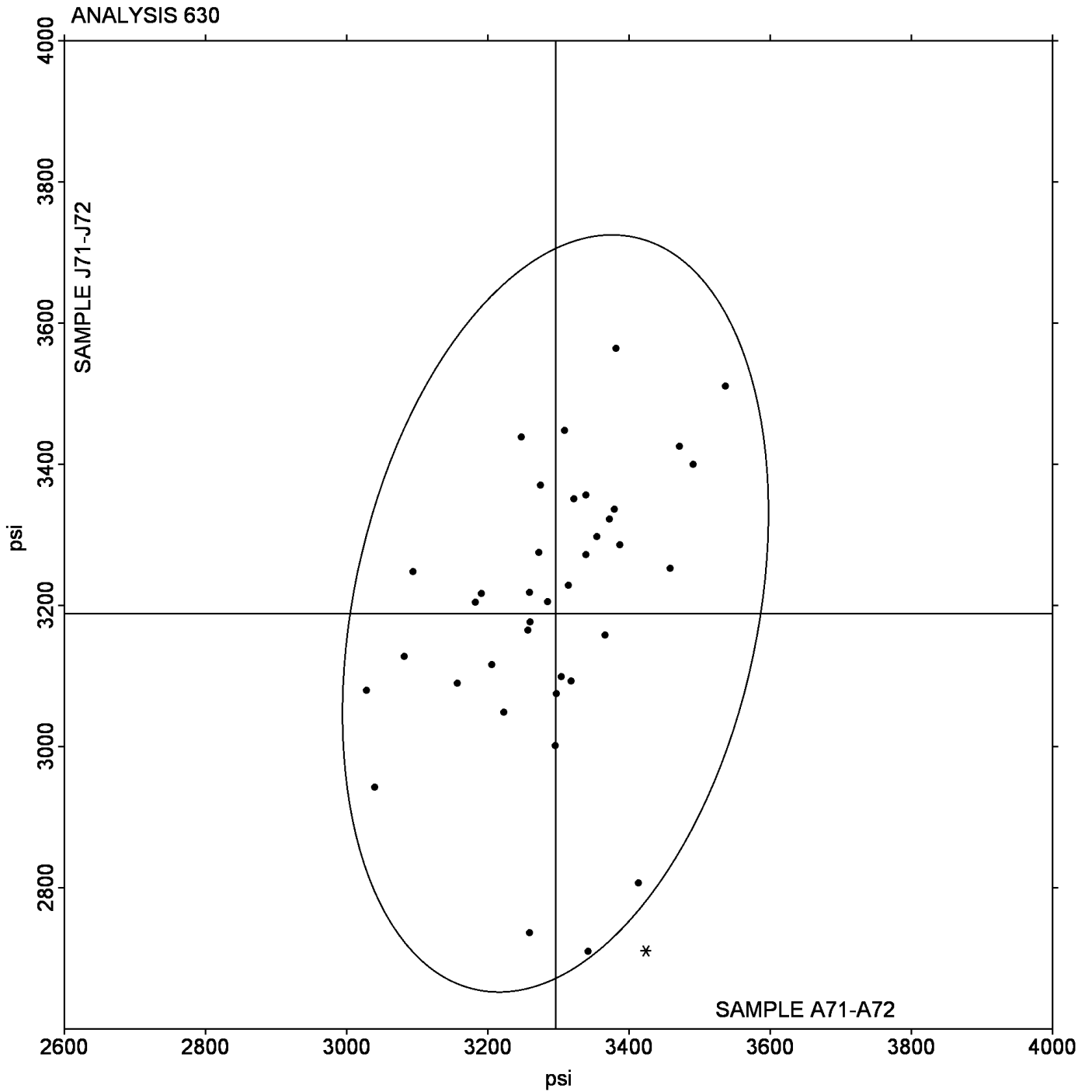
UW1QLJ (X) - Inconsistency in testing between Sample sets. Data for Sample Set J71-J72 are low.

Analysis 630

Tensile Strength: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample A71-A72 = 3,295.82 psi

Grand Mean Sample J71-J72 = 3,188.60 psi



Analysis 631

Ultimate Elongation: Precured vs. Lab-Cured Samples (percent)

WebCode	Data Flag	Sample A71-A72			Sample J71-J72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1RPWP1		566.5	-5.1	-0.23	581.5	-1.0	-0.04	ZZ
2TQHYH		533.5	-38.1	-1.74	545.0	-37.5	-1.57	ZZ
2UY52J		555.5	-16.1	-0.73	575.5	-7.0	-0.29	ZZ
42WLDF		559.0	-12.6	-0.57	566.0	-16.5	-0.69	ZZ
4EKDTV		557.5	-14.1	-0.64	543.5	-39.0	-1.63	ZZ
5FJ7FE		606.0	34.4	1.57	612.4	29.8	1.25	ZZ
5U3QA4		530.6	-41.0	-1.87	541.2	-41.4	-1.73	ZZ
6BEXMY		562.5	-9.1	-0.41	573.0	-9.5	-0.40	ZZ
6EVEQ1		545.9	-25.6	-1.17	549.0	-33.5	-1.40	ZZ
6LH5BW		591.0	19.4	0.89	615.5	33.0	1.38	ZZ
6LNDPQ		588.5	16.9	0.77	584.0	1.5	0.06	ZZ
6LVTJP		587.0	15.4	0.71	614.0	31.5	1.32	ZZ
72KPN7		584.5	12.9	0.59	601.5	19.0	0.79	ZZ
9Q68WR		568.5	-3.1	-0.14	557.5	-25.0	-1.05	ZZ
BS2UHD		551.0	-20.6	-0.94	579.5	-3.0	-0.13	ZZ
GB1M9V		519.0	-52.6	-2.40	536.0	-46.5	-1.95	ZZ
GS63FE		601.5	29.9	1.37	598.8	16.2	0.68	ZZ
GVRUJ5		597.0	25.4	1.16	594.5	12.0	0.50	ZZ
H8B17C		554.4	-17.1	-0.78	566.5	-16.0	-0.67	ZZ
H9Y1NU		580.5	8.9	0.41	592.9	10.3	0.43	ZZ
JATC77		553.5	-18.1	-0.83	580.0	-2.5	-0.11	ZZ
JS178V		568.0	-3.6	-0.16	566.5	-16.0	-0.67	ZZ
K6F945		548.5	-23.1	-1.05	583.5	1.0	0.04	ZZ
KC3GLV		584.0	12.4	0.57	598.5	16.0	0.67	ZZ
ML5N9W	*	603.0	31.4	1.44	652.0	69.5	2.91	ZZ
NXDLZH		555.0	-16.6	-0.76	572.0	-10.5	-0.44	ZZ
Q9KWC3		567.5	-4.1	-0.19	572.5	-10.0	-0.42	ZZ
QHTD3N	X	654.5	82.9	3.79	626.0	43.5	1.82	ZZ
R3X6R7		587.5	15.9	0.73	600.0	17.5	0.73	ZZ
R477H8		590.0	18.4	0.84	600.5	18.0	0.75	ZZ
RBQ1R6		566.0	-5.6	-0.25	553.0	-29.5	-1.23	ZZ
TM2GW	*	617.4	45.8	2.09	585.7	3.2	0.13	ZZ
U3GCBE		584.5	12.9	0.59	586.0	3.5	0.15	ZZ
V1EM26		586.5	14.9	0.68	612.0	29.5	1.23	ZZ
VK2RFB		574.0	2.4	0.11	600.4	17.9	0.75	ZZ

Analysis 631

Ultimate Elongation: Precured vs. Lab-Cured Samples (percent)

WebCode	Data Flag	Sample A71-A72			Sample J71-J72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VWV17T		597.0	25.4	1.16	596.5	14.0	0.58	ZZ
X4A2JT		559.5	-12.1	-0.55	582.0	-0.5	-0.02	ZZ
XCBQXJ		588.5	16.9	0.77	573.0	-9.5	-0.40	ZZ
XF9NZQ		555.5	-16.1	-0.73	567.0	-15.5	-0.65	ZZ
Y4RK25		565.5	-6.1	-0.28	591.5	9.0	0.38	ZZ
YTXLHK		571.0	-0.6	-0.03	600.5	18.0	0.75	ZZ

Summary Statistics

Grand Means

571.55 percent

582.52 percent

Std Dev Btwn Labs

21.88 percent

23.90 percent

Statistics based on 40 of 41 reporting participants

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #631

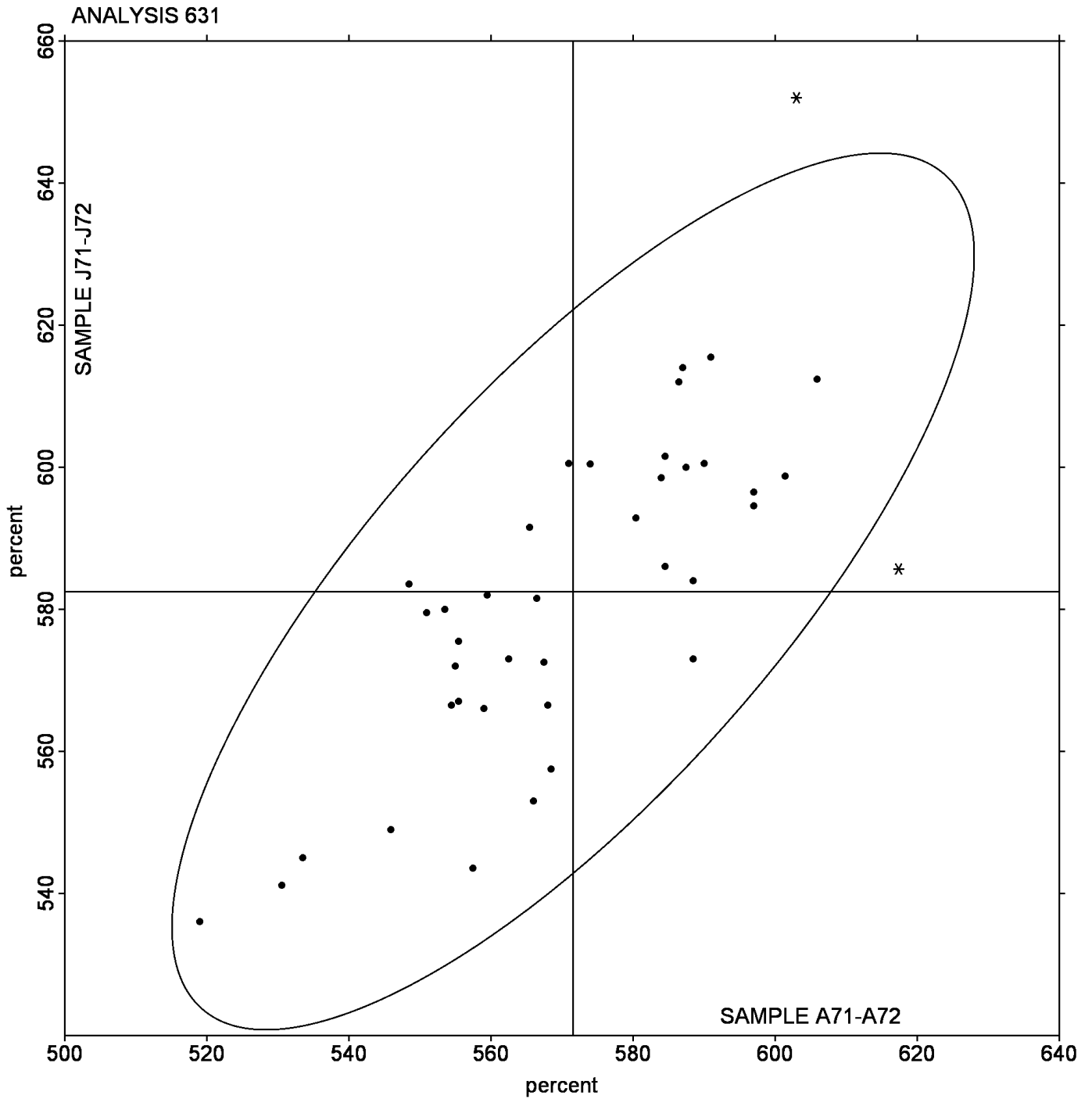
QHTD3N (X) - Inconsistency in testing between Sample sets. Data for Sample Set A71-A72 are high.

Analysis 631

Ultimate Elongation: Precured vs. Lab-Cured Samples (percent)

Grand Mean Sample A71-A72 = 571.55 percent

Grand Mean Sample J71-J72 = 582.52 percent



Analysis 632

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample A71-A72			Sample J71-J72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
15RYDH		1,145.5	-73.8	-0.88	815.5	-303.1	-2.29	ZZ
23HPZW		1,220.0	0.7	0.01	1,100.0	-18.6	-0.14	ZZ
2F7YRP		1,211.0	-8.3	-0.10	1,113.5	-5.1	-0.04	ZZ
2VTBEA		1,182.9	-36.4	-0.44	1,172.4	53.7	0.41	ZZ
519EWH		1,009.5	-209.8	-2.52	971.5	-147.1	-1.11	ZZ
5NAT3D		1,326.0	106.7	1.28	1,245.0	126.4	0.95	ZZ
5SQRN1		1,191.5	-27.8	-0.33	1,058.5	-60.1	-0.45	ZZ
61YLHT		1,204.5	-14.8	-0.18	1,304.0	185.4	1.40	ZZ
71C1A8		1,078.6	-140.7	-1.69	1,128.9	10.3	0.08	ZZ
7SDD52		1,221.5	2.2	0.03	1,017.0	-101.6	-0.77	ZZ
819MDZ		1,222.2	2.9	0.03	1,144.1	25.5	0.19	ZZ
AWLBHL		1,252.5	33.2	0.40	1,266.5	147.9	1.12	ZZ
AWVKTF		1,244.1	24.8	0.30	1,142.7	24.0	0.18	ZZ
BGAL1J		1,198.0	-21.3	-0.26	1,182.1	63.4	0.48	ZZ
CX7WZ2		1,232.5	13.2	0.16	882.0	-236.6	-1.79	ZZ
D7XQXH		1,124.1	-95.3	-1.14	1,022.5	-96.1	-0.73	ZZ
DGLYRZ		1,131.0	-88.3	-1.06	794.5	-324.1	-2.45	ZZ
ECYBEJ		1,319.5	100.2	1.20	1,327.0	208.4	1.57	ZZ
EM4PPE		1,142.9	-76.5	-0.92	1,136.1	17.5	0.13	ZZ
GRV53X		1,218.3	-1.0	-0.01	1,113.9	-4.7	-0.04	ZZ
H4J5CK		1,204.5	-14.8	-0.18	1,245.0	126.4	0.95	ZZ
HWEUX		1,368.0	148.7	1.78	1,254.0	135.4	1.02	ZZ
J7U2B7		1,281.1	61.8	0.74	1,151.6	32.9	0.25	ZZ
JDQ1EQ	*	1,436.0	216.7	2.60	1,338.0	219.4	1.66	ZZ
LXVP5X		1,290.0	70.7	0.85	1,023.5	-95.1	-0.72	ZZ
LYY197		1,245.0	25.7	0.31	1,185.0	66.4	0.50	ZZ
MYZ9Z6	*	1,289.0	69.7	0.84	876.5	-242.1	-1.83	ZZ
PPGHDC		1,175.0	-44.3	-0.53	1,156.5	37.9	0.29	ZZ
QHBPUP		1,228.5	9.2	0.11	1,170.5	51.9	0.39	ZZ
SLFA3S		1,169.4	-49.9	-0.60	1,043.3	-75.3	-0.57	ZZ
SWRZP9		1,185.0	-34.3	-0.41	1,100.0	-18.6	-0.14	ZZ
THFZ1V		1,258.5	39.2	0.47	1,271.5	152.9	1.15	ZZ
TZ3CEN		1,139.0	-80.3	-0.96	1,083.5	-35.1	-0.27	ZZ
UECNH1		1,228.5	9.2	0.11	896.0	-222.6	-1.68	ZZ
WH97WR		1,179.5	-39.8	-0.48	1,161.5	42.9	0.32	ZZ

Analysis 632

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample A71-A72			Sample J71-J72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
WLSW5N	*	1,442.4	223.1	2.67	1,264.0	145.4	1.10	ZZ
XK9A66		1,186.1	-33.2	-0.40	1,090.8	-27.8	-0.21	ZZ
XUJP41		1,137.5	-81.8	-0.98	1,074.5	-44.1	-0.33	ZZ
YD2J8M		1,205.5	-13.8	-0.17	1,156.5	37.9	0.29	ZZ
YUXV1N		1,194.5	-24.8	-0.30	1,162.5	43.9	0.33	ZZ
ZSMDJ5		1,273.0	53.7	0.64	1,222.0	103.4	0.78	ZZ

Summary Statistics	
Grand Means	
1,219.32 psi	1,118.64 psi
Std Dev Btwn Labs	
83.43 psi	132.47 psi
Statistics based on 41 of 41 reporting participants	

Summary Statistics in SI Units	
Grand Means	
8.4068 MPa	7.71 MPa
Std Dev Btwn Labs	
0.5752 MPa	0.91 MPa
Statistics based on 41 of 41 reporting participants	

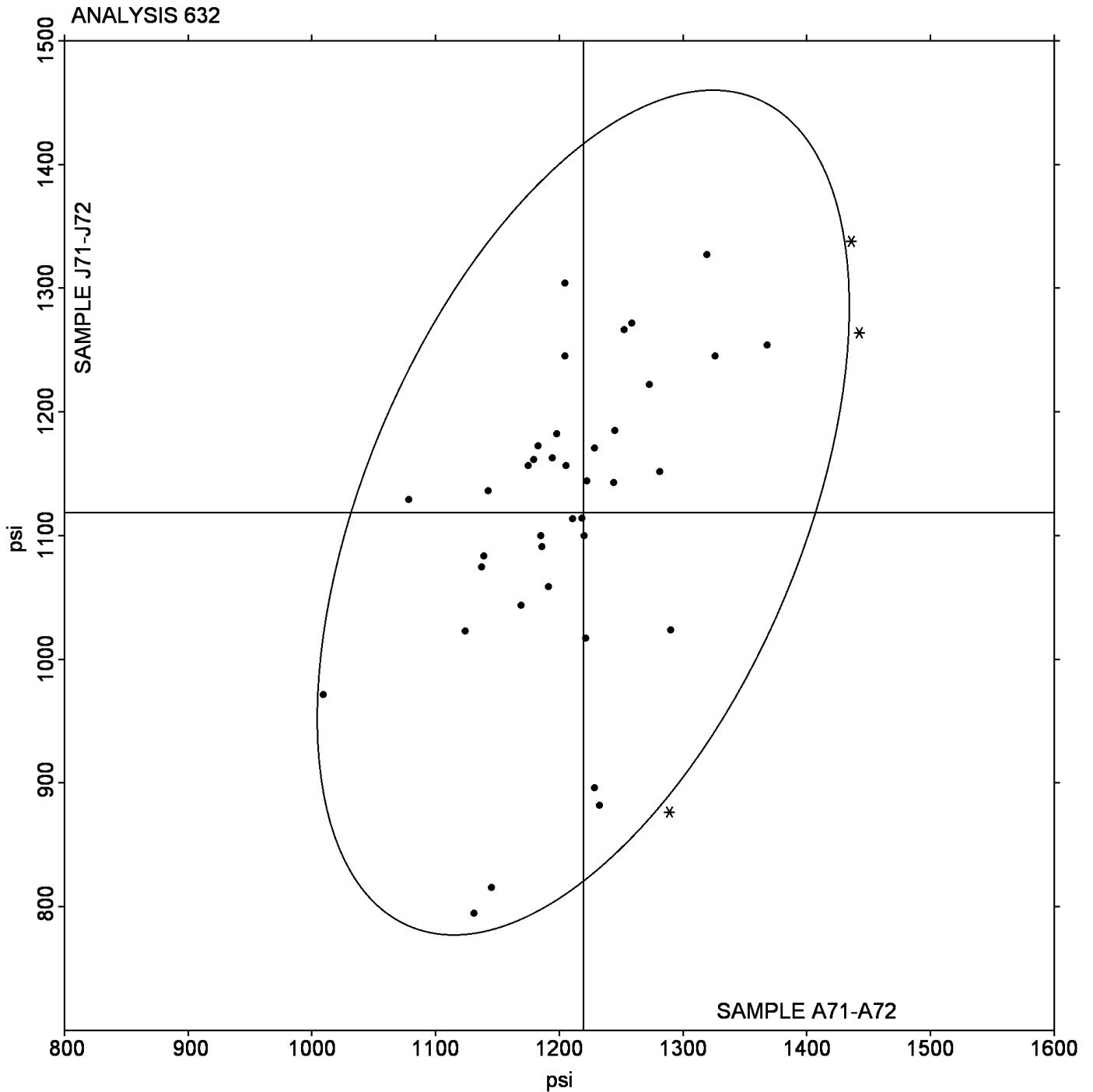
All samples : Polyisoprene compound, batch #1

Analysis 632

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample A71-A72 = 1,219.32 psi

Grand Mean Sample J71-J72 = 1,118.64 psi



Analysis 633

Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample A71-A72			Sample J71-J72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1DW35W		270.5	14.0	0.94	291.0	41.2	1.45	ZZ
3WAHX		248.0	-8.5	-0.57	244.0	-5.8	-0.21	ZZ
3WFQAS		257.4	0.9	0.06	268.3	18.5	0.65	ZZ
4FP3ME		285.1	28.6	1.91	269.2	19.4	0.68	ZZ
4PXUR4		284.5	28.0	1.87	299.0	49.2	1.73	ZZ
5NRFS1		250.5	-6.0	-0.40	242.3	-7.5	-0.26	ZZ
5W941H		223.0	-33.5	-2.24	222.0	-27.8	-0.98	ZZ
6CBGKJ		262.7	6.2	0.42	256.1	6.3	0.22	ZZ
6JAVD7	*	252.0	-4.5	-0.30	171.0	-78.8	-2.78	ZZ
6MTPYR		249.5	-7.0	-0.47	272.0	22.2	0.78	ZZ
6U9YTG		248.0	-8.5	-0.57	262.5	12.7	0.45	ZZ
95DWT6		242.0	-14.5	-0.97	242.5	-7.3	-0.26	ZZ
9TLIML		243.5	-13.0	-0.87	265.0	15.2	0.54	ZZ
9ZADRV		261.5	5.0	0.33	267.0	17.2	0.61	ZZ
9ZQBQR		253.5	-3.0	-0.20	261.5	11.7	0.41	ZZ
A8AASA		244.5	-12.0	-0.80	257.5	7.7	0.27	ZZ
AEHEW		265.0	8.5	0.57	249.0	-0.8	-0.03	ZZ
AWSUPH		265.0	8.5	0.57	192.5	-57.3	-2.02	ZZ
BXE798	X	319.8	63.3	4.23	292.3	42.4	1.50	ZZ
DZAJZ4		279.5	23.0	1.54	273.5	23.7	0.83	ZZ
FEP61Z		238.9	-17.6	-1.17	259.5	9.7	0.34	ZZ
GC9DBQ		259.8	3.3	0.22	256.9	7.1	0.25	ZZ
GFAY48		263.8	7.3	0.49	258.6	8.8	0.31	ZZ
H6L496		259.5	3.0	0.20	280.0	30.2	1.06	ZZ
MKC8Y5		262.5	6.0	0.40	262.5	12.7	0.45	ZZ
R6CDYM		255.0	-1.5	-0.10	253.5	3.7	0.13	ZZ
RYE3P4		253.5	-3.0	-0.20	182.5	-67.3	-2.37	ZZ
RYHE35		236.0	-20.5	-1.37	248.5	-1.3	-0.05	ZZ
S8XY7F		259.5	3.0	0.20	226.5	-23.3	-0.82	ZZ
S9EKVK		280.5	24.0	1.60	285.5	35.7	1.26	ZZ
SB1QH2		247.6	-8.9	-0.59	262.6	12.8	0.45	ZZ
SBHFDM		259.0	2.5	0.17	191.5	-58.3	-2.06	ZZ
SCCPCB		240.6	-16.0	-1.07	238.4	-11.5	-0.40	ZZ
TCNPYK		254.3	-2.3	-0.15	263.2	13.3	0.47	ZZ
THJ122		239.3	-17.2	-1.15	233.5	-16.3	-0.57	ZZ

**Rubber Interlaboratory Testing Program
Analysis 633**

Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample A71-A72			Sample J71-J72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
UFT6WK		248.7	-7.8	-0.52	243.7	-6.2	-0.22	ZZ
VU53AM	*	298.0	41.5	2.78	222.0	-27.8	-0.98	ZZ
VYSWW		253.0	-3.5	-0.23	285.5	35.7	1.26	ZZ
XS4FPL		267.5	11.0	0.74	244.5	-5.3	-0.19	ZZ
YHJC9Z		239.5	-17.0	-1.14	234.5	-15.3	-0.54	ZZ
YUZL8R		258.0	1.5	0.10	253.5	3.7	0.13	ZZ

Summary Statistics			
Grand Means	256.51	psi	249.82
Std Dev Btwn Labs	14.95	psi	28.37
Statistics based on 40 of 41 reporting participants			

Summary Statistics in SI Units			
Grand Means	1.7685	MPa	1.72
Std Dev Btwn Labs	0.1031	MPa	0.20
Statistics based on 40 of 41 reporting participants			

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #633

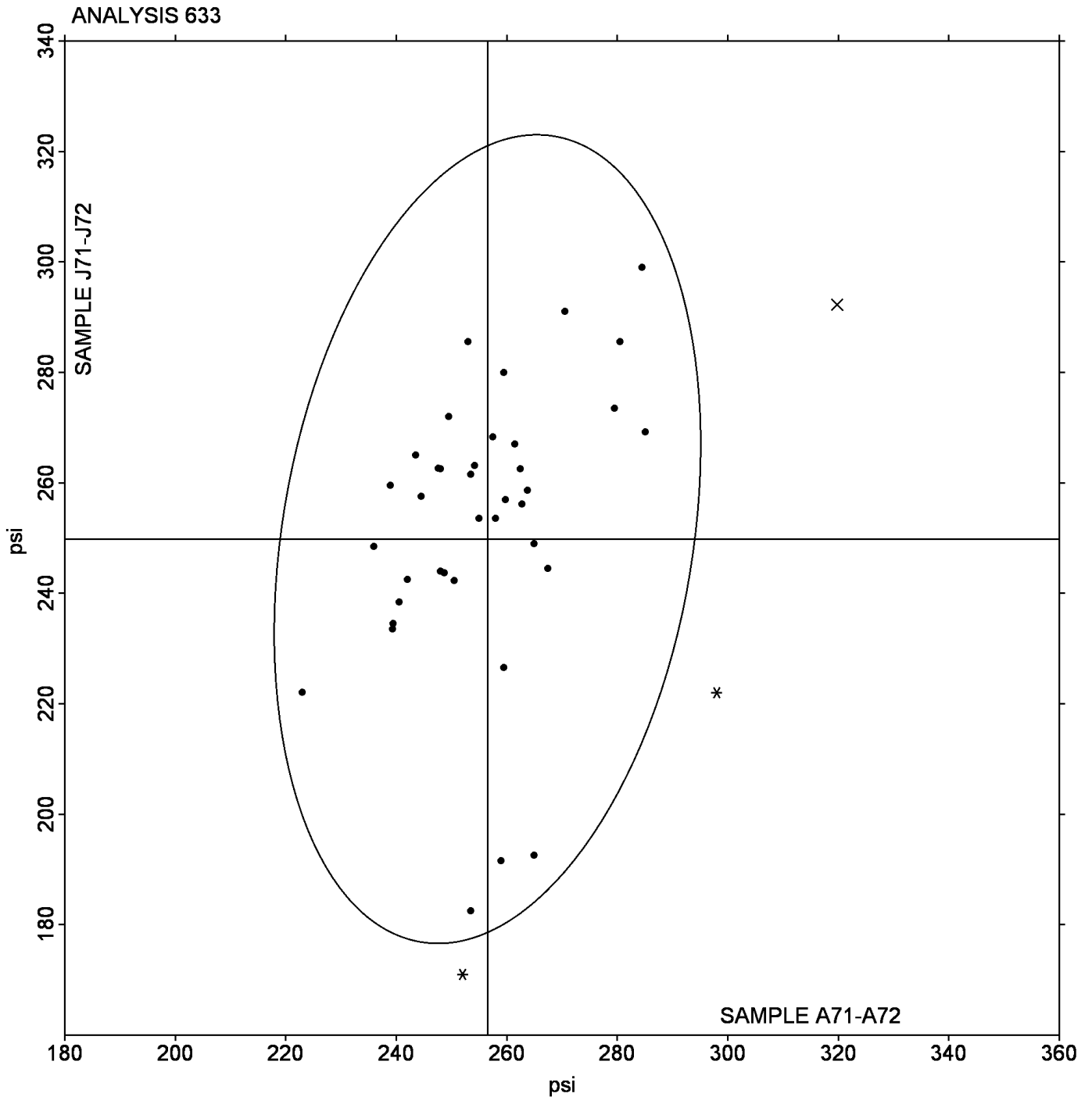
BXE798 (X) - Inconsistency in testing between Sample sets. Data for Sample Set A71-A72 are high.

Analysis 633

Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample A71-A72 = 256.51 psi

Grand Mean Sample J71-J72 = 249.82 psi



Rubber Interlaboratory Testing Program

Analysis 660

Mooney Viscosity: 4-minute readings (ML 1 + 4)

WebCode	Data Flag	Sample S71-S72			Sample S73-S74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
13NJ6X		48.00	0.41	0.56	46.42	0.96	1.06	MP
1Y3DA2		48.15	0.56	0.77	46.38	0.93	1.02	MR
384SFD		48.57	0.98	1.33	47.25	1.80	1.98	MR
3AHBJ9		47.28	-0.31	-0.42	44.78	-0.67	-0.74	MR
3W7CJ3		47.75	0.16	0.22	44.93	-0.52	-0.57	MR
4K14T5		47.03	-0.56	-0.76	45.37	-0.09	-0.10	MR
4MGN8E		48.40	0.81	1.11	46.19	0.73	0.81	MR
78UXY8		47.00	-0.59	-0.80	45.33	-0.12	-0.13	MR
79JTCN		48.55	0.96	1.31	46.68	1.23	1.35	MR
7PZYGV		48.62	1.03	1.40	45.67	0.21	0.23	MR
7SDL12		47.77	0.18	0.24	45.40	-0.05	-0.06	MR
9MMZJS		47.93	0.34	0.47	45.90	0.45	0.49	MR
9VB2UV		47.55	-0.04	-0.05	45.58	0.13	0.14	MR
AHQLHN		48.73	1.14	1.56	46.47	1.01	1.11	MR
ARDBC3	X	50.77	3.18	4.33	48.88	3.43	3.77	MM
BBEJTJ		46.98	-0.61	-0.82	45.08	-0.37	-0.41	MR
CSKAKG		47.80	0.21	0.29	45.82	0.36	0.40	MR
DJQRJD		48.47	0.88	1.20	46.55	1.10	1.21	MR
EKM8NN		46.02	-1.57	-2.14	44.21	-1.25	-1.37	MR
EWCRYZ		48.00	0.41	0.56	46.15	0.70	0.77	MR
FPHC1S		47.65	0.06	0.09	45.67	0.21	0.23	MM
K5FFZ5		47.38	-0.21	-0.28	44.88	-0.57	-0.63	ML
L4CNAR		47.28	-0.31	-0.42	45.02	-0.44	-0.48	MR
LX3XN4		46.83	-0.76	-1.03	44.22	-1.24	-1.36	TV
LYFS5S		47.04	-0.55	-0.75	44.35	-1.10	-1.21	TV
LZ9UZE		48.15	0.56	0.77	45.17	-0.29	-0.32	MR
M7AE59		47.18	-0.41	-0.55	44.23	-1.22	-1.34	MR
MEPJM8	*	49.48	1.89	2.58	47.81	2.35	2.59	TV
NCA992		46.05	-1.54	-2.10	43.17	-2.29	-2.52	MR
NZPXXS		46.63	-0.96	-1.30	44.32	-1.14	-1.25	MR
QLKAQ		47.53	-0.06	-0.08	44.92	-0.54	-0.59	MR
RB6CAU		47.30	-0.29	-0.39	45.40	-0.05	-0.06	MR
SJ883E		47.07	-0.52	-0.71	45.28	-0.17	-0.19	MR
SPZFLN		46.85	-0.74	-1.01	45.45	0.00	-0.01	MM
UR9H1Q		47.74	0.15	0.21	45.83	0.37	0.41	MR

Analysis 660

Mooney Viscosity: 4-minute readings (ML 1 + 4)

WebCode	Data Flag	Sample S71-S72			Sample S73-S74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VHF23S		47.13	-0.46	-0.62	45.27	-0.19	-0.21	MR
WWCZV		47.08	-0.51	-0.69	44.80	-0.65	-0.72	MR
YNVPLM		47.18	-0.41	-0.55	44.88	-0.57	-0.63	MZ
Z1CH8C		48.23	0.64	0.88	46.13	0.68	0.75	MR
ZLRVEZ		47.53	-0.06	-0.08	45.78	0.33	0.36	MM

Summary Statistics	
Grand Means	
47.589 ML 1 + 4	45.455 ML 1 + 4
Std Dev Btwn Labs	
0.734 ML 1 + 4	0.908 ML 1 + 4
Statistics based on 39 of 40 reporting participants	

Samples S71-S72: SBR & S73-S74: Butyl

Comments on assigned Data Flags for Test #660

ARDBC3 (X) - Data for all Samples are high. Possible Systematic Error.

Instrument Code Listing

660 Mooney Viscosity: 4-minute readings (ML 1 + 4)

Instruments:

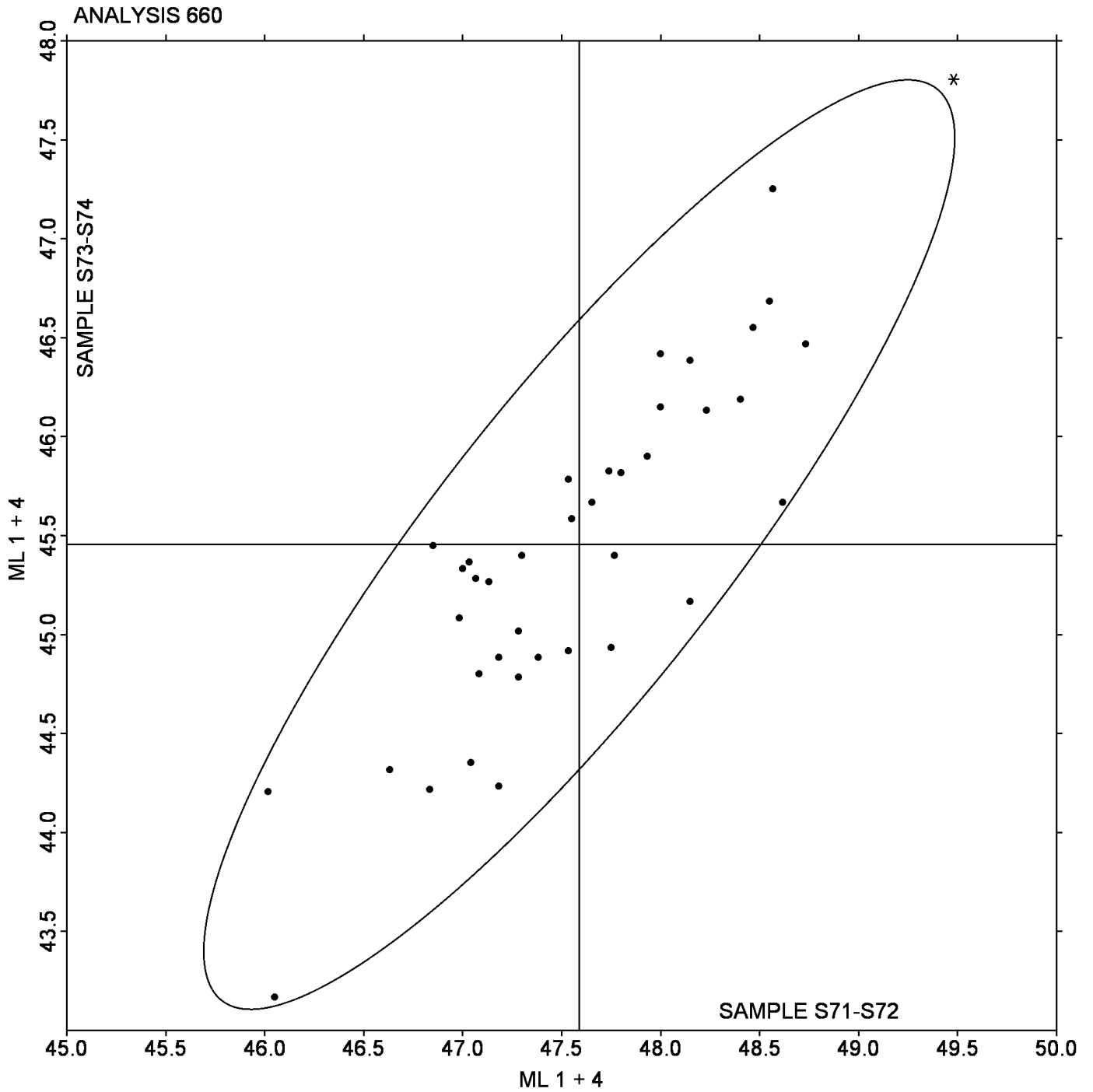
- (ML) Alpha Technologies/Monsanto model not specified
- (MP) Monsanto Compact Mooney Viscometer
- (MZ) Rebuilt Monsanto Mooney Viscometer
- (TV) Tech Pro Visc Tech (any model)
- (XX) Instrument make/model not specified by lab
- (MM) Alpha Technologies Model 1xxx or OSM
- (MR) Alpha Technologies Model MV2000/MV2000E
- (SF) Scott STI (any model)
- (XA) Special In-House Instrument

Analysis 660

Mooney Viscosity: 4-minute readings (ML 1 + 4)

Grand Mean Sample S71-S72 = 47.589 ML 1 + 4

Grand Mean Sample S73-S74 = 45.455 ML 1 + 4



Analysis 661

Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

WebCode	Data Flag	Sample S71-S72			Sample S73-S74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1CFTTZ		47.53	-0.01	-0.02	42.70	-0.97	-1.15	MM
1VLKGT	*	49.48	1.93	2.65	45.34	1.67	1.97	TV
2V8ZZ5		47.07	-0.48	-0.66	43.43	-0.24	-0.28	MR
2WFC4Z		47.93	0.39	0.53	44.20	0.53	0.62	MR
3D68H6		47.77	0.22	0.30	43.65	-0.02	-0.03	MR
3DRQY9		48.23	0.69	0.94	44.37	0.69	0.82	MR
446MHM		48.47	0.92	1.26	44.98	1.31	1.55	TV
5AR3PV		47.28	-0.26	-0.36	42.85	-0.82	-0.97	MR
6F68E9		48.57	1.02	1.40	45.25	1.58	1.87	MR
72TZQR		48.73	1.19	1.63	45.00	1.33	1.57	MR
74SYMW		47.55	0.00	0.00	43.93	0.26	0.31	MR
B7GYQ8		47.18	-0.36	-0.50	42.93	-0.74	-0.87	MZ
BDCYSQ		47.28	-0.26	-0.36	42.73	-0.94	-1.11	MR
BYMWJR		48.15	0.60	0.83	44.68	1.01	1.20	MR
CJA8YF		47.80	0.25	0.35	44.48	0.81	0.96	MR
D3UKWB		47.38	-0.16	-0.22	43.03	-0.64	-0.76	XX
DFNWSN		46.02	-1.53	-2.10	42.87	-0.81	-0.95	MR
EM2PCY		48.00	0.45	0.62	44.20	0.53	0.62	MR
EPTFRQ		46.98	-0.56	-0.77	43.22	-0.46	-0.54	MR
GAQE67		46.05	-1.50	-2.05	41.70	-1.97	-2.33	MR
GGPTYW	X	50.77	3.22	4.41	43.87	0.19	0.23	MM
GZDTBE		47.18	-0.36	-0.50	42.85	-0.82	-0.97	MR
HLZTMS		47.30	-0.25	-0.34	44.00	0.33	0.39	MR
J45KVV		46.85	-0.70	-0.96	43.82	0.14	0.17	MM
KY6UJG		47.53	-0.01	-0.02	42.92	-0.76	-0.89	MR
LJH356		47.08	-0.46	-0.64	42.95	-0.72	-0.85	MR
PIH3XH		47.65	0.11	0.15	43.40	-0.27	-0.32	MM
Q2P9QQ		47.00	-0.55	-0.75	43.95	0.28	0.33	MR
QHDVCP		46.63	-0.91	-1.25	42.93	-0.74	-0.87	MR
QHUA8C		48.62	1.07	1.47	43.63	-0.04	-0.05	MR
QVZY8E		47.75	0.20	0.28	43.33	-0.34	-0.40	MR
SW7QKU		47.13	-0.41	-0.57	44.03	0.36	0.43	MR
WZF75T		46.83	-0.71	-0.98	42.37	-1.31	-1.54	TV
X4NQQL		47.74	0.19	0.26	44.35	0.68	0.80	MR
XGF7NZ		48.00	0.45	0.62	43.70	0.03	0.03	MM

Analysis 661

Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

WebCode	Data Flag	Sample S71-S72			Sample S73-S74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XHE9QA		47.03	-0.51	-0.70	43.82	0.14	0.17	MR
YEJ2EK		48.40	0.86	1.17	44.62	0.95	1.12	MR
YNCTZE		47.04	-0.51	-0.69	43.65	-0.02	-0.02	TV

Summary Statistics

Grand Means

47.547 ML

43.673 ML

Std Dev Btwn Labs

0.729 ML

0.846 ML

Statistics based on 37 of 38 reporting participants

Please refer to the sample information provided for Analysis 660.

Comments on assigned Data Flags for Test #661

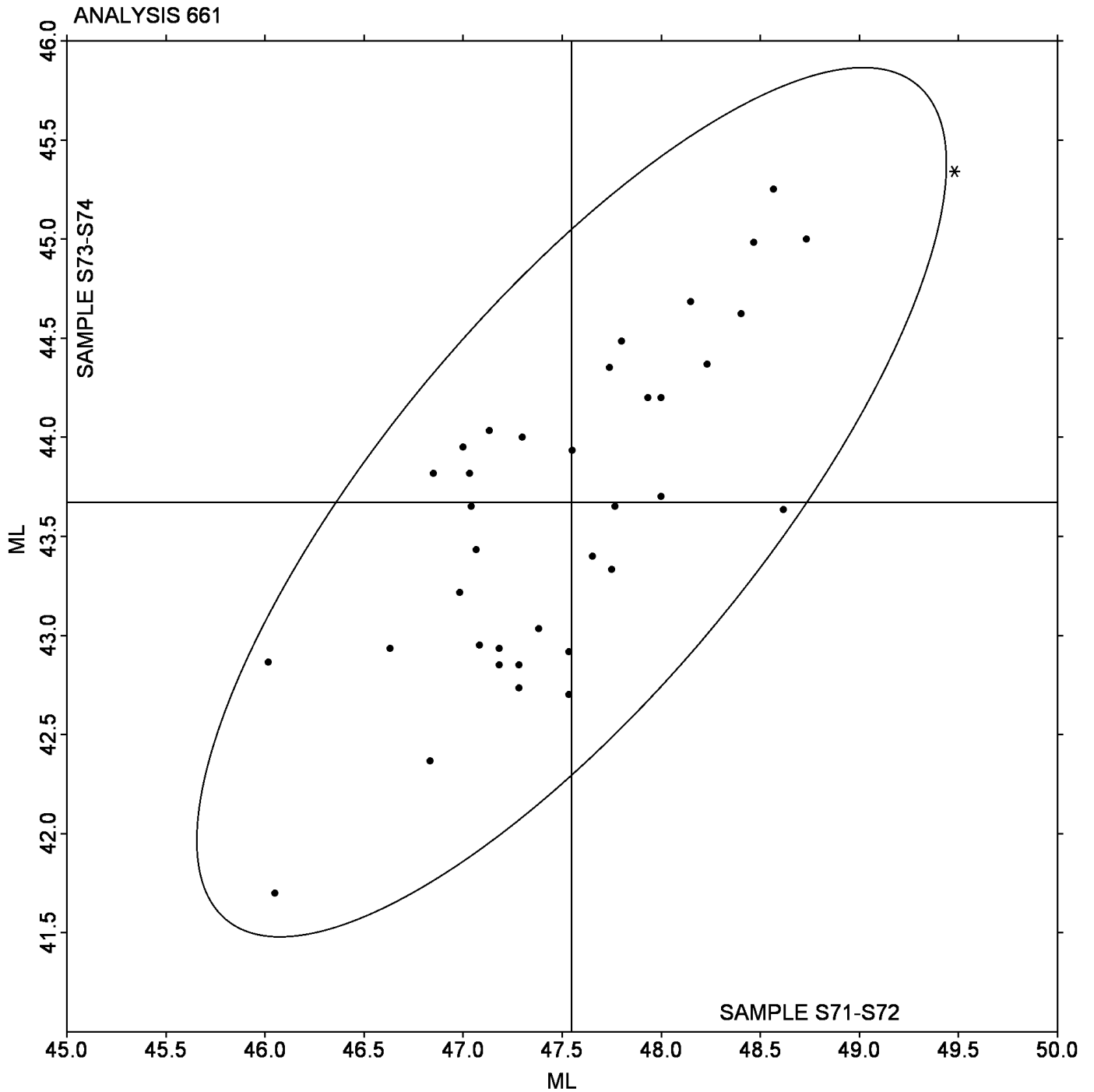
GGPTYW (X) - Inconsistency in testing between Sample sets. Data for Sample Set S71-S72 are high.

Analysis 661

Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

Grand Mean Sample S71-S72 = 47.547 ML

Grand Mean Sample S73-S74 = 43.673 ML



Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample W71-W72			Sample W73-W74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1DZVCZ		1.348	-0.127	-1.37	2.403	-0.260	-1.36	ZZ
35R1SJ		1.598	0.123	1.32	2.702	0.038	0.20	ZZ
5E3KSL		1.440	-0.036	-0.39	2.418	-0.245	-1.29	ZZ
93EK9S		1.482	0.006	0.06	2.642	-0.022	-0.12	ZZ
9GWFPF		1.368	-0.107	-1.16	2.497	-0.167	-0.88	ZZ
A6C8GM	*	1.592	0.116	1.25	3.123	0.460	2.41	ZZ
C1KPR2		1.500	0.024	0.26	2.700	0.036	0.19	ZZ
CD37TX		1.583	0.108	1.16	2.810	0.146	0.77	ZZ
D23ADW		1.548	0.073	0.78	2.860	0.196	1.03	ZZ
EZA2Y8		1.388	-0.087	-0.94	2.580	-0.084	-0.44	ZZ
FKEQW3		1.478	0.003	0.03	2.712	0.048	0.25	ZZ
J4WC2T		1.480	0.004	0.05	2.558	-0.105	-0.55	ZZ
KKFP3K		1.470	-0.006	-0.06	2.725	0.061	0.32	ZZ
MSQ6K4		1.547	0.071	0.76	2.708	0.045	0.23	ZZ
TV8GY9	X	3.297	1.821	19.60	5.990	3.326	17.44	ZZ
TYM3HF		1.468	-0.007	-0.08	2.702	0.038	0.20	ZZ
WNJRA5		1.425	-0.051	-0.55	2.498	-0.165	-0.87	ZZ
WQ65JS		1.338	-0.137	-1.48	2.495	-0.169	-0.88	ZZ
WSMF1T		1.341	-0.134	-1.45	2.483	-0.181	-0.95	ZZ
YZB5DY		1.643	0.168	1.80	2.993	0.330	1.73	ZZ

Summary Statistics	
Grand Means	
1.4758 minutes	2.6637 minutes
Std Dev Btwn Labs	
0.0929 minutes	0.1908 minutes
Statistics based on 19 of 20 reporting participants	

Samples W71-W72: EPDM compound #1 & W73-W74: EPDM compound #2

Comments on assigned Data Flags for Test #669

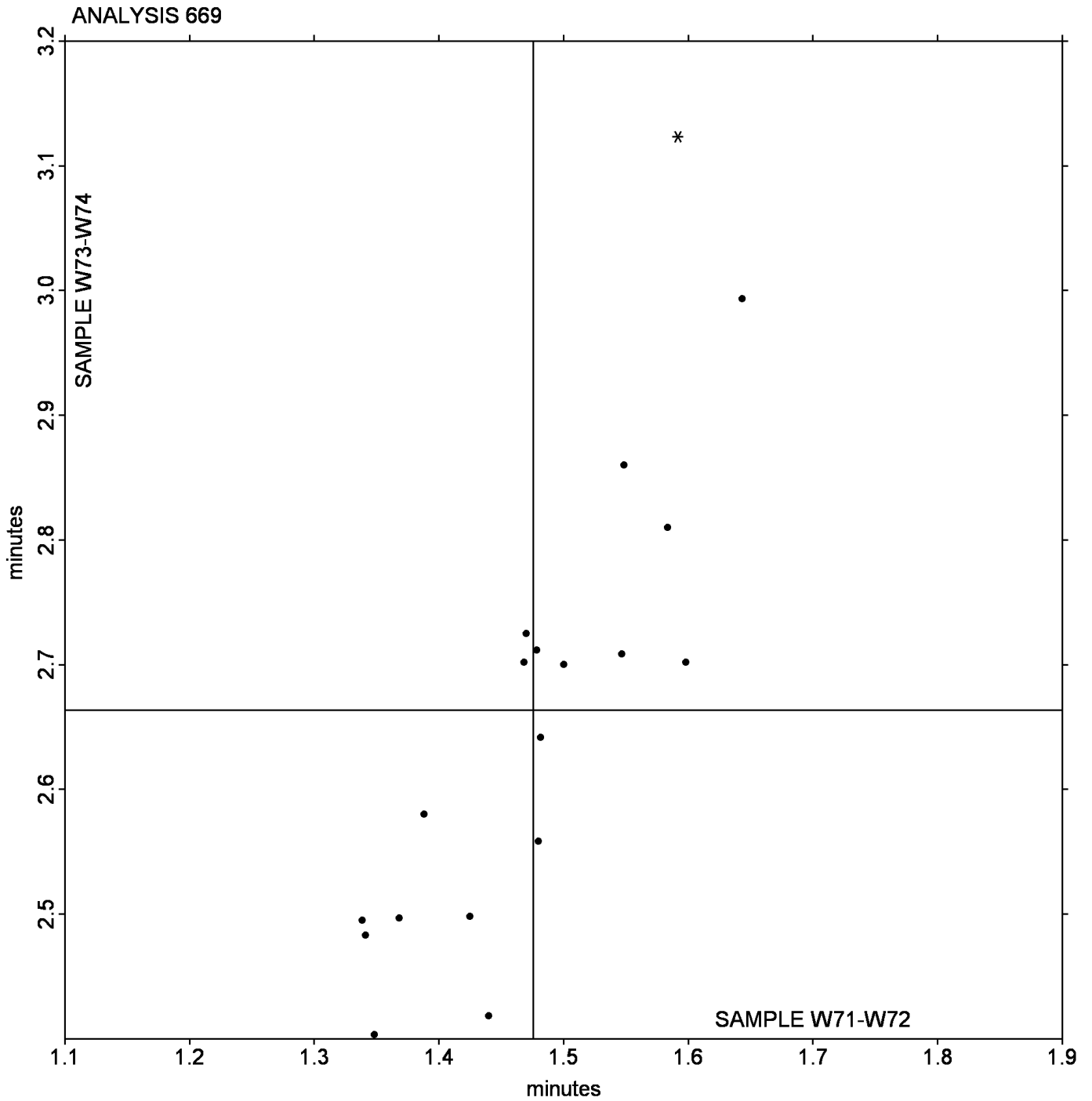
TV8GY9 (X) - Data for all Samples are high.

Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample W71-W72 = 1.4758 minutes

Grand Mean Sample W73-W74 = 2.6637 minutes



Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample W71-W72			Sample W73-W74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2LFGS3		1.060	-0.047	-0.51	1.860	-0.037	-0.21	ZZ
4194ET		1.032	-0.075	-0.81	1.742	-0.155	-0.88	ZZ
4BM6WK		1.003	-0.104	-1.12	1.818	-0.079	-0.45	ZZ
58GM6J	*	0.977	-0.130	-1.40	1.900	0.003	0.02	ZZ
74BCYT		1.177	0.070	0.75	1.952	0.055	0.31	ZZ
7U93FA		1.118	0.011	0.12	1.937	0.040	0.23	ZZ
BZ61EP		1.047	-0.060	-0.65	1.713	-0.184	-1.04	ZZ
C4ER7W		1.198	0.091	0.98	2.115	0.218	1.24	ZZ
CM6NJW		1.080	-0.027	-0.29	1.812	-0.085	-0.48	ZZ
DTDFMT		1.085	-0.022	-0.24	1.833	-0.064	-0.36	ZZ
E5VE7G		1.237	0.130	1.39	2.107	0.210	1.19	ZZ
G3BE1W		1.100	-0.007	-0.08	1.917	0.020	0.11	ZZ
JNLC4P		1.012	-0.095	-1.02	1.733	-0.164	-0.93	ZZ
KUMBFT		1.103	-0.004	-0.04	1.880	-0.017	-0.10	ZZ
PVJC7Q		1.092	-0.015	-0.16	1.850	-0.047	-0.27	ZZ
Q2PBFW		1.017	-0.090	-0.97	1.690	-0.207	-1.18	ZZ
Q3Z8MK		1.190	0.083	0.89	2.028	0.131	0.75	ZZ
Q4JLGW		1.238	0.131	1.41	2.000	0.103	0.59	ZZ
QPBD5Y		1.067	-0.040	-0.43	1.732	-0.165	-0.94	ZZ
SRX4HW		1.125	0.018	0.19	1.898	0.001	0.01	ZZ
VMWSJ2	X	1.308	0.201	2.16	2.683	0.786	4.47	ZZ
WRGG84		0.960	-0.147	-1.58	1.560	-0.337	-1.92	ZZ
XM86E2		1.318	0.211	2.27	2.280	0.383	2.18	ZZ
YRUQ93		1.242	0.135	1.45	2.285	0.388	2.21	ZZ
ZNWE82		1.092	-0.015	-0.16	1.883	-0.014	-0.08	ZZ

Grand Means		Summary Statistics	
	1.1070 minutes		1.8969 minutes
Std Dev Btwn Labs			0.1759 minutes
	0.0930 minutes	Statistics based on 24 of 25 reporting participants	

Samples W71-W72: EPDM compound #1 & W73-W74: EPDM compound #2

Comments on assigned Data Flags for Test #670

VMWSJ2 (X) - Data for Sample set W73-W74 are low.

Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample W71-W72			Sample W73-W74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3LCGMF		2.915	-0.085	-0.35	5.508	0.049	0.17	ZZ
6U66JT		2.710	-0.290	-1.19	5.143	-0.316	-1.06	ZZ
9H6DPZ		2.957	-0.043	-0.18	5.620	0.161	0.54	ZZ
A6FQNY		2.845	-0.155	-0.63	5.223	-0.236	-0.79	ZZ
AHJTPY		3.177	0.177	0.73	5.768	0.309	1.04	ZZ
BDRFT9		2.952	-0.048	-0.20	5.237	-0.222	-0.75	ZZ
C96YUB		2.842	-0.158	-0.65	5.207	-0.252	-0.85	ZZ
DP1862		3.008	0.009	0.04	5.267	-0.192	-0.64	ZZ
E9HFW8		2.661	-0.339	-1.39	5.002	-0.457	-1.53	ZZ
FRUHYL		3.297	0.297	1.22	5.990	0.531	1.78	ZZ
FVKCMF		3.208	0.209	0.85	5.738	0.279	0.94	ZZ
G6GZRH		3.532	0.532	2.18	6.193	0.734	2.46	ZZ
HXRGHT		2.945	-0.055	-0.22	5.492	0.033	0.11	ZZ
JBFZAH		2.905	-0.095	-0.39	5.403	-0.056	-0.19	ZZ
K7JRL2	*	3.753	0.754	3.09	5.947	0.488	1.64	ZZ
NMR6TL		2.878	-0.121	-0.50	5.750	0.291	0.98	ZZ
PRDTRT		2.982	-0.018	-0.07	5.208	-0.251	-0.84	ZZ
QHAGFF		2.795	-0.205	-0.84	5.185	-0.274	-0.92	ZZ
RSD9UV		2.788	-0.211	-0.87	5.323	-0.136	-0.45	ZZ
SAPKTX		3.153	0.154	0.63	5.288	-0.171	-0.57	ZZ
T1YG5U		2.803	-0.196	-0.80	5.327	-0.132	-0.44	ZZ
T685Q6		3.082	0.082	0.34	5.377	-0.082	-0.28	ZZ
UT1C66		2.817	-0.183	-0.75	5.157	-0.302	-1.01	ZZ
VCLRX1		2.963	-0.036	-0.15	5.362	-0.097	-0.33	ZZ
VHUMP8		3.022	0.022	0.09	5.565	0.106	0.36	ZZ
Y3GGHE		3.000	0.000	0.00	5.650	0.191	0.64	ZZ

Grand Means		Summary Statistics	
	2.9996 minutes		5.4589 minutes
Std Dev Btwn Labs			0.2981 minutes
	0.2442 minutes	Statistics based on 26 of 26 reporting participants	

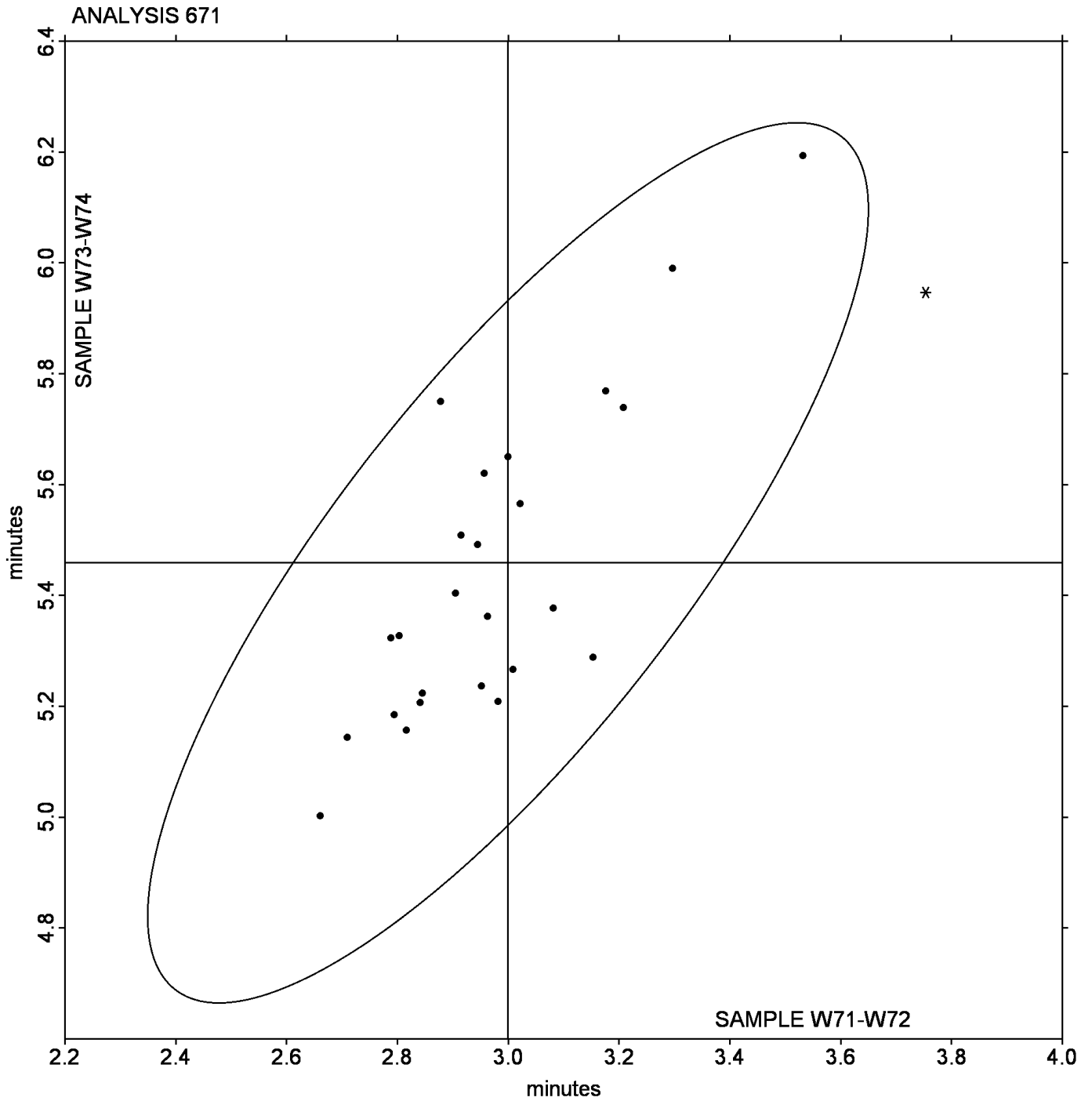
Samples W71-W72: EPDM compound #1 & W73-W74: EPDM compound #2

Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample W71-W72 = 2.9996 minutes

Grand Mean Sample W73-W74 = 5.4589 minutes



Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample W71-W72			Sample W73-W74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1MPBQN	*	13.52	1.57	1.91	12.028	2.456	2.64	ZZ
3V3BMJ	X	16.44	4.49	5.46	11.212	1.639	1.76	ZZ
6K94HA		12.28	0.34	0.41	8.982	-0.591	-0.64	ZZ
7R8BG5		11.94	0.00	0.00	10.065	0.493	0.53	ZZ
8B6T7X		10.96	-0.99	-1.20	8.892	-0.681	-0.73	ZZ
8C3D8W		11.45	-0.50	-0.60	8.433	-1.139	-1.23	ZZ
984MC5		12.65	0.70	0.86	10.100	0.528	0.57	ZZ
9P8NVS		12.25	0.30	0.37	10.593	1.021	1.10	ZZ
AWA3CC		11.52	-0.42	-0.51	9.753	0.180	0.19	ZZ
B99R4Y		11.89	-0.06	-0.07	9.480	-0.093	-0.10	ZZ
DYRFWR		12.58	0.63	0.77	9.452	-0.121	-0.13	ZZ
M74EJM		11.23	-0.72	-0.87	9.253	-0.319	-0.34	ZZ
MDBY3Y	*	9.67	-2.28	-2.77	8.590	-0.983	-1.06	ZZ
MJHF9D		11.15	-0.80	-0.97	9.100	-0.473	-0.51	ZZ
NYCM21		11.44	-0.51	-0.62	9.922	0.349	0.38	ZZ
PQFU2T		11.43	-0.52	-0.63	9.608	0.036	0.04	ZZ
R613CM	*	11.63	-0.31	-0.38	11.950	2.378	2.56	ZZ
R899LF		12.35	0.40	0.49	8.603	-0.969	-1.04	ZZ
RAQQL8		12.27	0.33	0.40	9.132	-0.441	-0.47	ZZ
S2EN17		11.91	-0.04	-0.04	8.858	-0.714	-0.77	ZZ
UFRWZ2		11.80	-0.15	-0.18	9.573	0.001	0.00	ZZ
W6EJV3		12.28	0.33	0.41	8.742	-0.831	-0.89	ZZ
WME1L3		13.88	1.93	2.34	10.445	0.873	0.94	ZZ
WN1G6Q		12.22	0.27	0.33	8.953	-0.619	-0.67	ZZ
WZRXQ		12.22	0.28	0.34	8.980	-0.593	-0.64	ZZ
YHK1YQ		12.13	0.19	0.23	9.825	0.253	0.27	ZZ

Summary Statistics

Grand Means

11.946 minutes

9.5725 minutes

Std Dev Btwn Labs

0.823 minutes

0.9291 minutes

Statistics based on 25 of 26 reporting participants

Samples W71-W72: EPDM compound #1 & W73-W74: EPDM compound #2

Comments on assigned Data Flags for Test #672

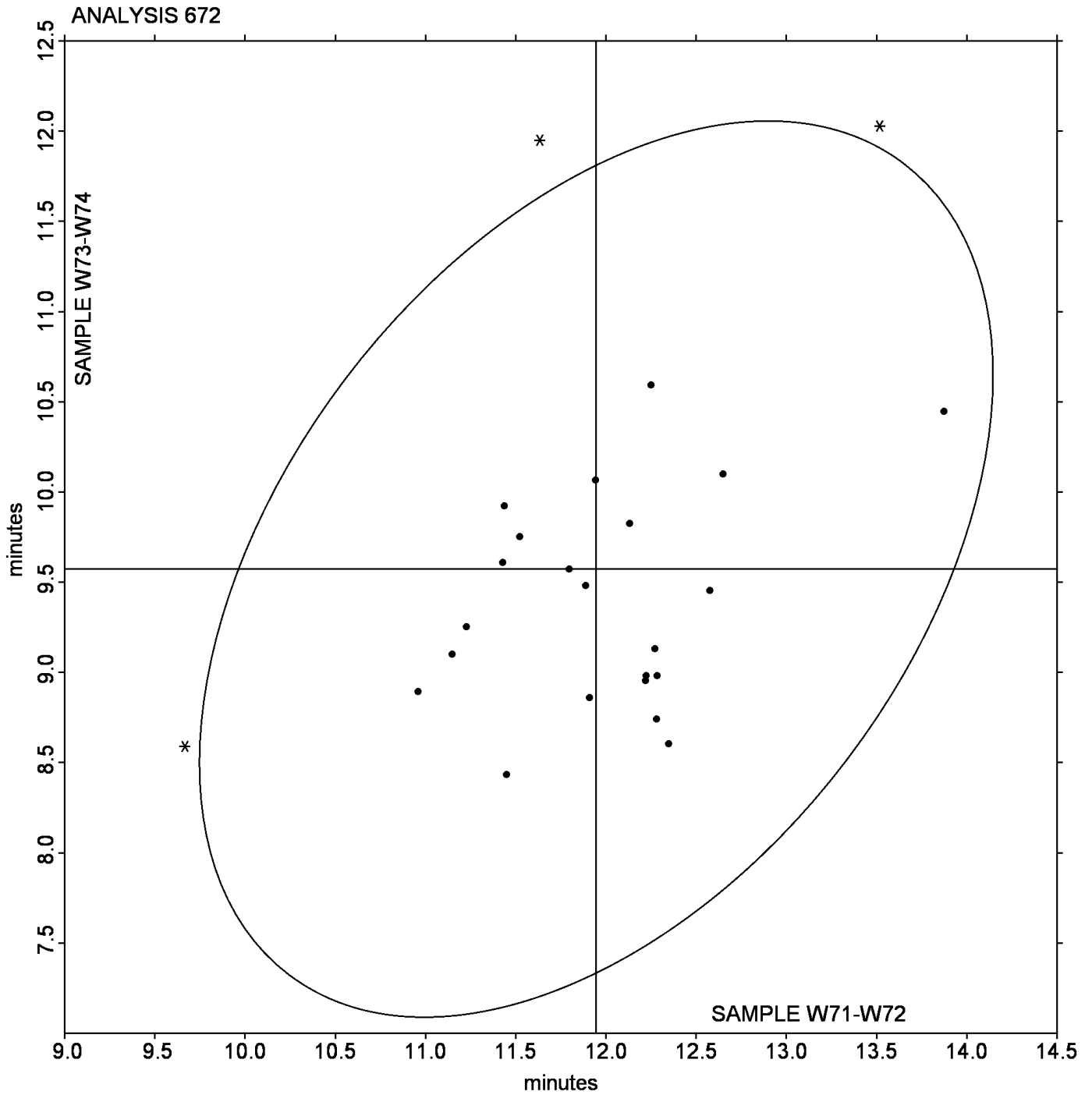
3V3BMJ (X) - Data for Sample set W71-W72 are high.

Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample W71-W72 = 11.946 minutes

Grand Mean Sample W73-W74 = 9.5725 minutes



Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample W71-W72			Sample W73-W74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
322S7W		8.413	1.333	1.90	7.165	0.063	0.05	ZZ
3ABRP8		6.580	-0.500	-0.71	7.272	0.170	0.15	ZZ
3R7AV3		7.225	0.145	0.21	6.330	-0.772	-0.66	ZZ
47ERHV		8.017	0.937	1.33	7.633	0.532	0.45	ZZ
51ZQA4		7.550	0.470	0.67	6.997	-0.105	-0.09	ZZ
5SVKP3		6.298	-0.782	-1.11	5.628	-1.473	-1.26	ZZ
9YMB77		6.077	-1.003	-1.43	7.307	0.205	0.17	ZZ
BQJZXU		7.970	0.890	1.27	7.793	0.692	0.59	ZZ
EX2P1J		7.073	-0.007	-0.01	6.333	-0.768	-0.66	ZZ
FHR3F8	X	14.773	7.693	10.95	19.645	12.543	10.70	ZZ
GGB375	X	16.552	9.472	13.49	15.208	8.107	6.92	ZZ
HKSDDEL		6.867	-0.213	-0.30	6.833	-0.268	-0.23	ZZ
J98RYC		7.788	0.708	1.01	8.158	1.057	0.90	ZZ
JSK8QP		7.145	0.065	0.09	6.548	-0.553	-0.47	ZZ
L3CDWS		7.095	0.015	0.02	8.039	0.938	0.80	ZZ
M36LFY		6.933	-0.147	-0.21	5.975	-1.127	-0.96	ZZ
MMW2Y		6.523	-0.557	-0.79	5.773	-1.328	-1.13	ZZ
P66PQC		8.567	1.487	2.12	9.982	2.880	2.46	ZZ
PFWDGY		6.900	-0.180	-0.26	8.328	1.227	1.05	ZZ
R5KU28		6.755	-0.325	-0.46	6.350	-0.752	-0.64	ZZ
RAVFZY		5.712	-1.368	-1.95	6.420	-0.682	-0.58	ZZ
S14BBV		7.317	0.237	0.34	9.798	2.697	2.30	ZZ
U9UXV7		7.002	-0.078	-0.11	6.193	-0.908	-0.77	ZZ
W7Y2DG		6.850	-0.230	-0.33	7.700	0.598	0.51	ZZ
WRASRE		6.923	-0.157	-0.22	5.955	-1.147	-0.98	ZZ
ZRU3JG		6.342	-0.738	-1.05	5.925	-1.177	-1.00	ZZ

Grand Means		Summary Statistics	
	7.0801 lbf.in		7.1016 lbf.in
Std Dev Btwn Labs			1.1720 lbf.in
	0.7023 lbf.in	Statistics based on 24 of 26 reporting participants	

Rubber Interlaboratory Testing Program
Analysis 673
ODR Vulcanization: Minimum Torque (lbf.in)

Grand Means		Summary Statistics in SI Units	
	7.9994 dN.m		8.0237 dN.m
Stnd Dev Btwn Labs			
	0.7935 dN.m		1.3242 dN.m
Statistics based on 24 of 26 reporting participants			

Samples W71-W72: EPDM compound #1 & W73-W74: EPDM compound #2

Comments on assigned Data Flags for Test #673

FHR3F8 (X) - Data for all Samples are high.

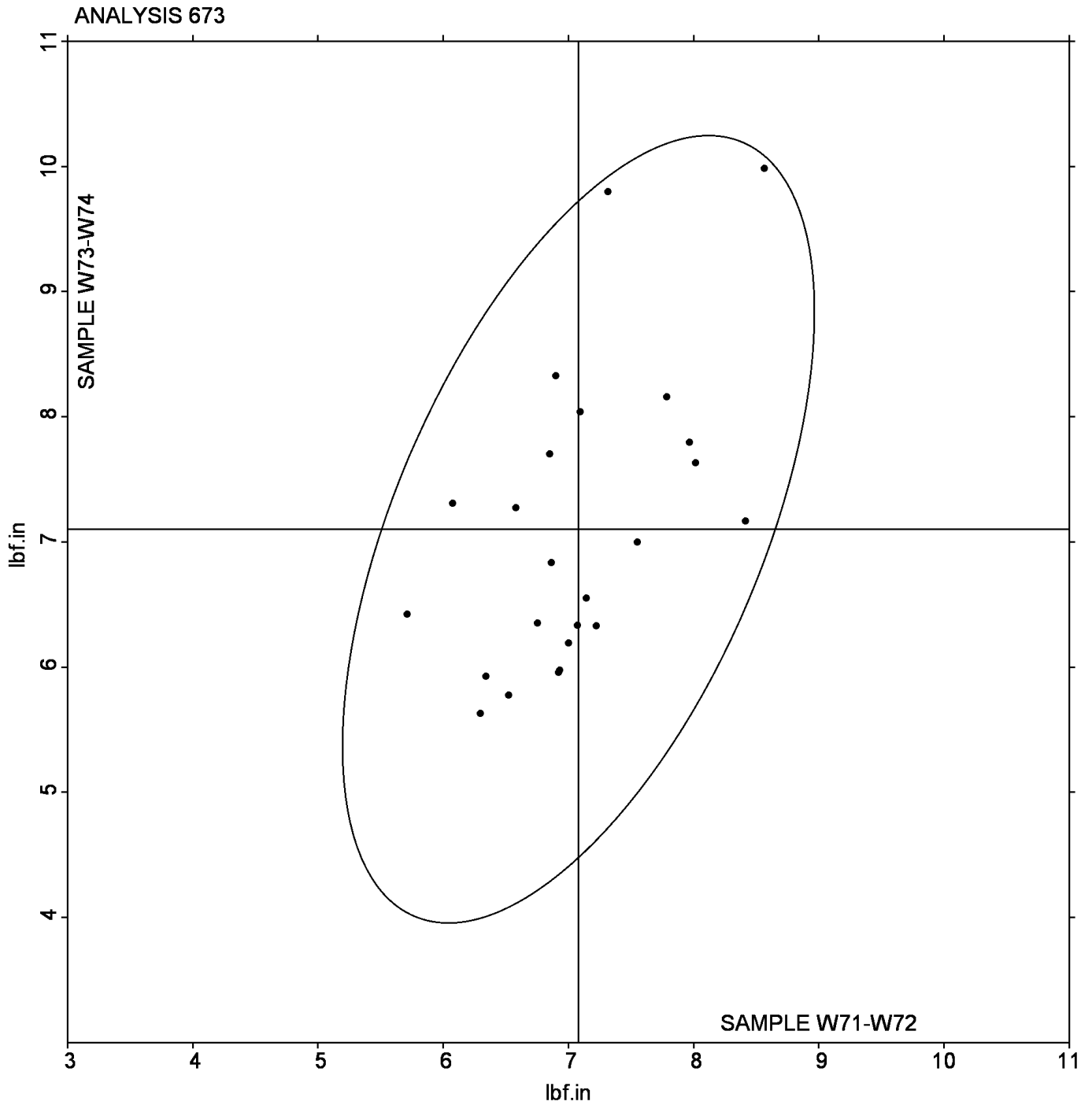
GGB375 (X) - Data for all Samples are high.

Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample W71-W72 = 7.0801 lbf.in

Grand Mean Sample W73-W74 = 7.1016 lbf.in



Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample W71-W72			Sample W73-W74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1HJ1XG		32.02	-3.46	-1.43	29.44	-1.25	-0.67	ZZ
6Q4PWS		37.33	1.85	0.76	31.02	0.33	0.18	ZZ
861WPX		35.91	0.43	0.18	31.31	0.62	0.33	ZZ
8DCXZ1		33.96	-1.53	-0.63	31.77	1.08	0.58	ZZ
8K23P1		34.13	-1.36	-0.56	28.60	-2.09	-1.12	ZZ
8MAQ9E	X	43.14	7.66	3.15	40.17	9.48	5.10	ZZ
9ZADSD		35.32	-0.16	-0.07	29.57	-1.11	-0.60	ZZ
AG538M		36.14	0.66	0.27	30.32	-0.36	-0.20	ZZ
AQ542N		36.76	1.28	0.53	31.93	1.25	0.67	ZZ
C6MWVJ		35.03	-0.46	-0.19	29.02	-1.66	-0.90	ZZ
CD9LTZ		34.82	-0.67	-0.27	30.17	-0.52	-0.28	ZZ
E5KH8W		34.01	-1.48	-0.61	29.31	-1.38	-0.74	ZZ
FT9JJ1		31.55	-3.93	-1.62	29.17	-1.52	-0.82	ZZ
G1KRC4	*	37.90	2.42	0.99	35.01	4.33	2.33	ZZ
HFS3JL		36.28	0.80	0.33	30.85	0.17	0.09	ZZ
J1QMPZ		36.05	0.57	0.23	30.95	0.26	0.14	ZZ
K22H5Q		41.13	5.64	2.32	34.40	3.72	2.00	ZZ
LDFW1P		33.19	-2.29	-0.94	28.74	-1.95	-1.05	ZZ
LJPAFE		35.40	-0.09	-0.04	29.79	-0.90	-0.48	ZZ
N7MKTX	X	79.62	44.14	18.17	63.47	32.79	17.65	ZZ
NBDVSA	*	42.12	6.63	2.73	34.39	3.70	1.99	ZZ
NPM3G1		33.55	-1.93	-0.80	29.56	-1.13	-0.61	ZZ
R23D2F		34.44	-1.05	-0.43	29.63	-1.05	-0.57	ZZ
V91D4H		34.87	-0.61	-0.25	30.33	-0.36	-0.19	ZZ
WQ6EM5		35.78	0.30	0.12	32.61	1.93	1.04	ZZ
YAAP36		33.94	-1.54	-0.64	28.57	-2.12	-1.14	ZZ

Grand Means		Summary Statistics	
	35.485 lbf.in		30.684 lbf.in
Std Dev Btwn Labs			1.858 lbf.in
	2.430 lbf.in	Statistics based on 24 of 26 reporting participants	

**Rubber Interlaboratory Testing Program
Analysis 674****ODR Vulcanization: Maximum Torque (lbf.in)**

Grand Means		Summary Statistics in SI Units	
	40.092 dN.m		34.668 dN.m
Stnd Dev Btwn Labs			
	2.745 dN.m		2.099 dN.m
Statistics based on 24 of 26 reporting participants			

Samples W71-W72: EPDM compound #1 & W73-W74: EPDM compound #2

Comments on assigned Data Flags for Test #674

8MAQ9E (X) - Data for all Samples are high.

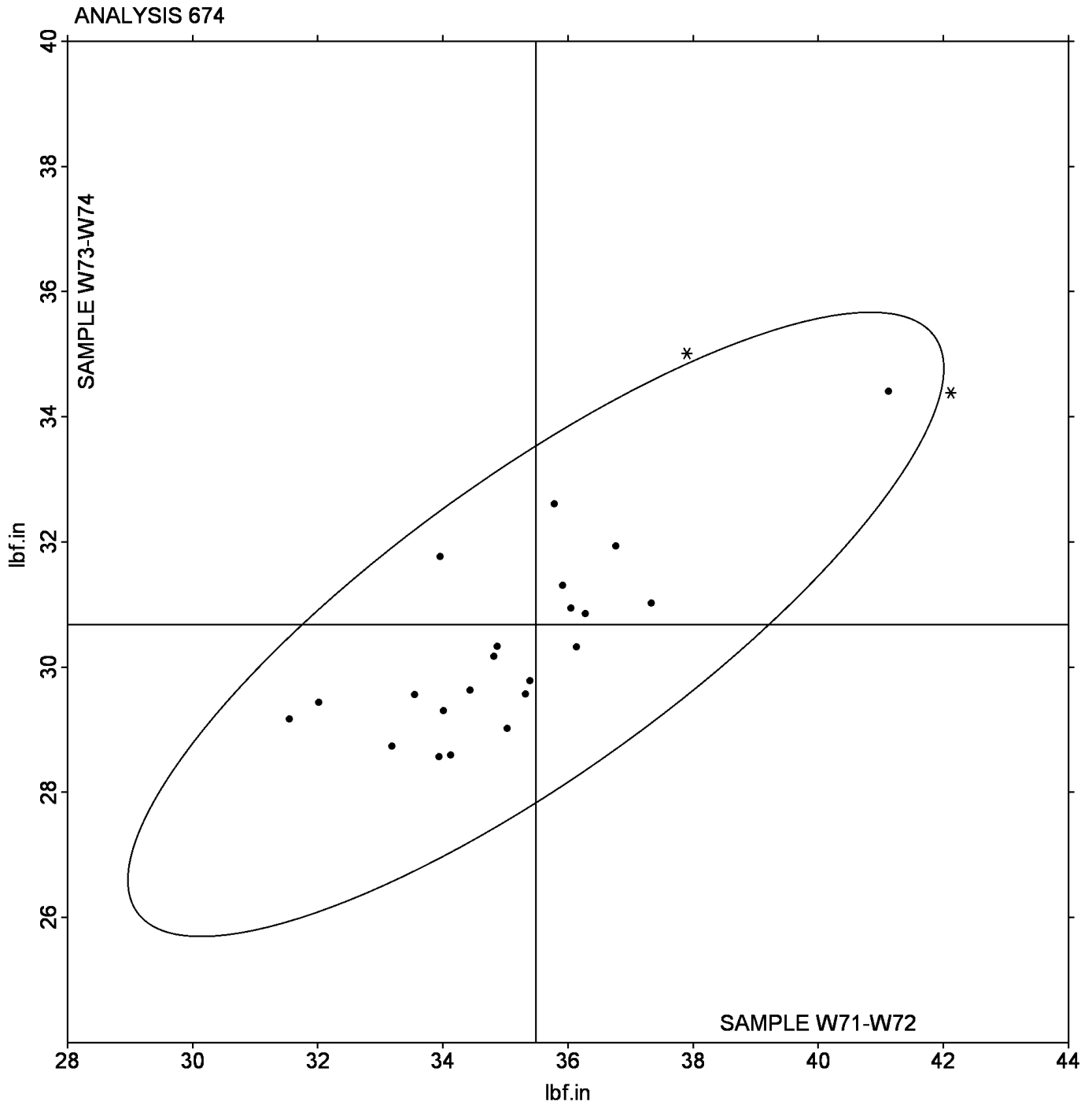
N7MKTX (X) - Data for all Samples are high.

Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample W71-W72 = 35.485 lbf.in

Grand Mean Sample W73-W74 = 30.684 lbf.in



Rubber Interlaboratory Testing Program

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample W75-W76			Sample W77-W78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
22NWA5		1.938	0.074	0.76	1.445	0.013	0.24	MC
8VQ83E		1.770	-0.094	-0.97	1.432	-0.001	-0.01	MC
9ZUHK7		1.830	-0.034	-0.35	1.422	-0.011	-0.20	TP
B58SKT		1.955	0.091	0.93	1.433	0.001	0.02	MC
BZC9KW		1.690	-0.174	-1.79	1.397	-0.036	-0.68	MC
BZPTH7		1.894	0.030	0.31	1.397	-0.035	-0.67	MC
C6HQ22		2.077	0.213	2.18	1.515	0.083	1.58	TP
DQ6CK4		1.932	0.068	0.69	1.467	0.034	0.65	MC
DQ6UEZ		1.783	-0.081	-0.83	1.472	0.039	0.75	MC
EC11L2	X	1.398	-0.466	-4.79	1.260	-0.172	-3.29	MC
HVSMXB		1.940	0.076	0.78	1.423	-0.009	-0.17	MD
HYARM8		1.875	0.011	0.11	1.457	0.024	0.46	MC
J5LA66		1.792	-0.072	-0.74	1.367	-0.066	-1.26	MP
K497E8		1.868	0.004	0.04	1.458	0.026	0.50	MC
K9JMPW		1.927	0.063	0.64	1.393	-0.039	-0.75	MC
L1LQL7		1.755	-0.109	-1.12	1.342	-0.091	-1.73	MD
L56HTT		1.918	0.054	0.56	1.435	0.003	0.05	MC
LBMMF		1.645	-0.219	-2.25	1.348	-0.084	-1.61	MC
NNWBV3		1.972	0.108	1.11	1.382	-0.051	-0.97	TP
T9MSF4		1.944	0.080	0.83	1.383	-0.049	-0.94	MC
TEHJN2		1.842	-0.022	-0.23	1.413	-0.019	-0.36	MD
UK4MGQ		1.803	-0.061	-0.62	1.445	0.013	0.24	MC
UQY6BD		1.795	-0.069	-0.71	1.455	0.023	0.43	MC
V2T6UG		1.795	-0.069	-0.71	1.473	0.041	0.78	MC
V3KKB8	*	1.830	-0.034	-0.35	1.592	0.159	3.04	MC
VWDLP3		1.937	0.073	0.75	1.457	0.024	0.46	MC
WQMMJ		1.960	0.096	0.99	1.440	0.008	0.15	XX

Summary Statistics	
Grand Means	
1.8641 minutes	1.4324 minutes
Std Dev Btwn Labs	
0.0973 minutes	0.0524 minutes
Statistics based on 26 of 27 reporting participants	

Samples W75-W76: EPDM compound, batch #1 & W77-W78: EPDM compound, batch #2

Rubber Interlaboratory Testing Program
Analysis 684
MDR Vulcanization-Cure Time 10% (minutes)

Comments on assigned Data Flags for Test #684

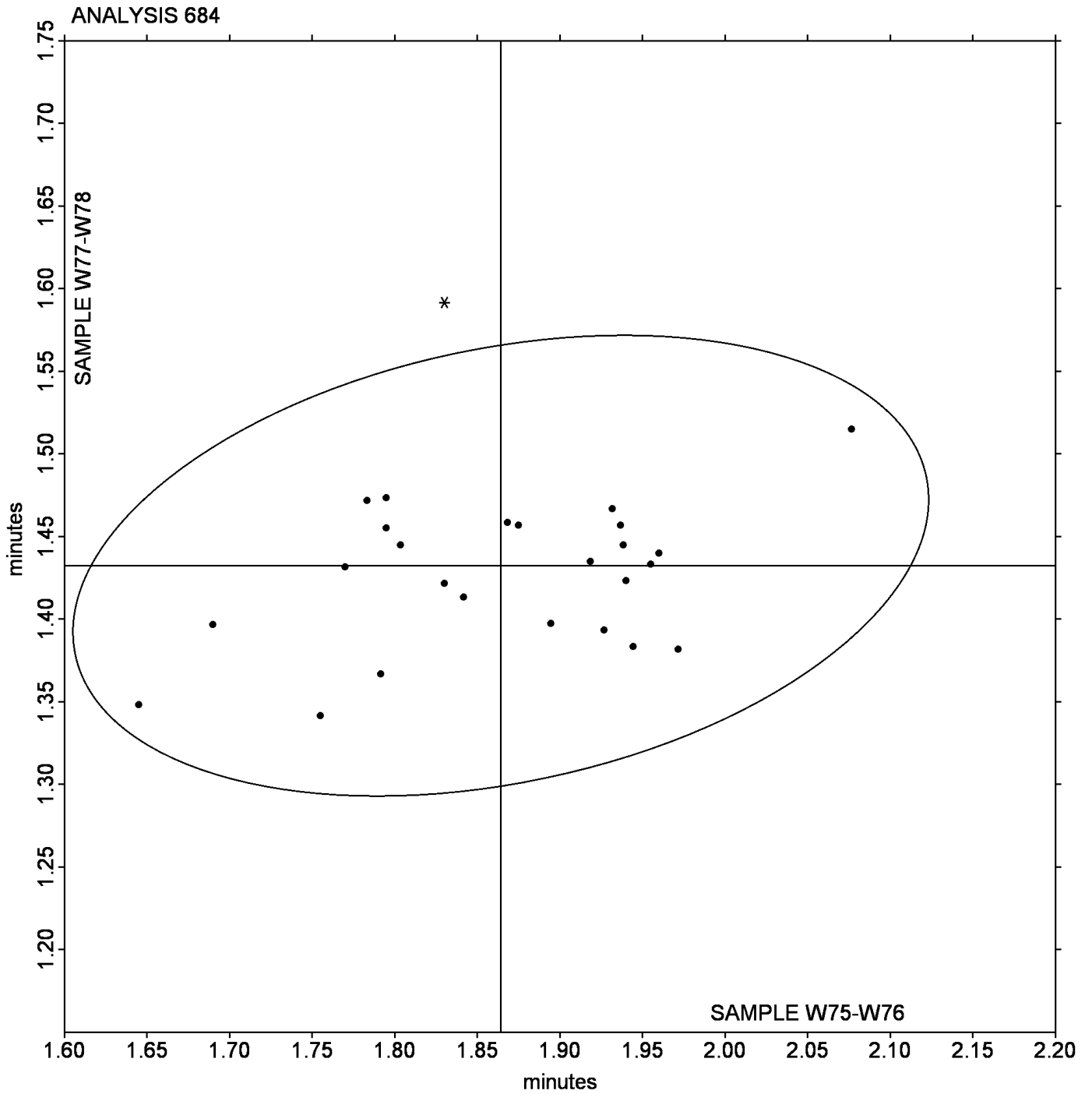
EC11L2 (X) - Data for all Samples are low.

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample W75-W76 = 1.8641 minutes

Grand Mean Sample W77-W78 = 1.4324 minutes



Rubber Interlaboratory Testing Program

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample W75-W76			Sample W77-W78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
14SCMP		1.540	-0.255	-1.92	1.117	-0.220	-2.14	MP
24ZRWW		1.912	0.117	0.88	1.527	0.190	1.86	MC
31SRFW		1.688	-0.106	-0.80	1.220	-0.116	-1.14	MC
3JNQDA		1.635	-0.160	-1.20	1.307	-0.030	-0.29	MC
4KTRGN		1.825	0.030	0.23	1.365	0.029	0.28	MC
4VDYFC		1.743	-0.051	-0.39	1.195	-0.141	-1.38	MC
5FC4L9	*	2.132	0.337	2.54	1.575	0.239	2.33	TP
5NBGS5		1.793	-0.001	-0.01	1.292	-0.045	-0.44	MC
6K7XV2		1.770	-0.025	-0.19	1.393	0.057	0.56	MC
6MUGW	*	1.477	-0.318	-2.40	1.287	-0.050	-0.48	MC
72DP45		1.787	-0.008	-0.06	1.422	0.085	0.83	MC
8L82KP		1.867	0.072	0.54	1.264	-0.072	-0.71	MC
8SYDXY		1.905	0.110	0.83	1.340	0.004	0.04	MC
9T3KKH		1.808	0.014	0.10	1.327	-0.010	-0.09	MD
AYSQRS		1.732	-0.063	-0.47	1.337	0.000	0.00	MC
BQNDT3		1.847	0.052	0.39	1.348	0.012	0.12	MC
BZA9SH		1.873	0.079	0.59	1.368	0.032	0.31	MD
CZCUFG		1.883	0.089	0.67	1.398	0.062	0.61	MD
DJERX5		1.811	0.017	0.13	1.300	-0.036	-0.35	MC
FD7CNH		1.850	0.055	0.42	1.430	0.094	0.91	MC
FDTENM	*	1.878	0.084	0.63	1.592	0.255	2.49	MC
G667K1		1.908	0.114	0.86	1.350	0.014	0.13	XX
JJC1GP		1.555	-0.240	-1.81	1.240	-0.096	-0.94	MC
KZ9QRY		1.633	-0.161	-1.22	1.247	-0.090	-0.88	MC
LR1HX4		1.903	0.109	0.82	1.293	-0.043	-0.42	XX
M6SAUG		1.900	0.105	0.80	1.328	-0.008	-0.08	MC
TEHZZJ		1.655	-0.140	-1.05	1.305	-0.031	-0.31	MC
VN8SFV		1.768	-0.026	-0.20	1.330	-0.006	-0.06	MC
WK1NB		1.897	0.102	0.77	1.397	0.060	0.59	MC
WR5HFF	*	1.944	0.150	1.13	1.197	-0.139	-1.36	MC
XF3J3Z		1.845	0.050	0.38	1.352	0.015	0.15	MC
XR6WC1		1.660	-0.135	-1.01	1.202	-0.135	-1.31	MC
XSBCJJ		1.840	0.045	0.34	1.398	0.062	0.61	TP
Z5JPDC		1.748	-0.046	-0.35	1.393	0.057	0.56	MC

**Rubber Interlaboratory Testing Program
Analysis 685****MDR Vulcanization-Scorch Time, Ts1 (minutes)**

		Summary Statistics	
Grand Means	1.7945 minutes		1.3363 minutes
Std Dev Btwn Labs	0.1326 minutes		0.1024 minutes
Statistics based on 34 of 34 reporting participants			

Samples W75-W76: EPDM compound, batch #1 & W77-W78: EPDM compound, batch #2

Instrument Code Listing**685 MDR Vulcanization-Scorch Time, Ts1 (minutes)****Instruments:**

- (MC) Alpha Technologies [Monsanto] MDR 2000 or 2000E (MD) Alpha Tech. Rubber Process Analyzer (RPA 2000)
(MP) Alpha Technologies [Monsanto] MDR 2000P (TP) Tech Pro MDR model MDPT
(XX) Instrument model not specified by lab

Rubber Interlaboratory Testing Program

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample W75-W76			Sample W77-W78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
11S2RP		5.017	-0.305	-0.95	4.197	-0.236	-0.67	MP
1EXV35	*	4.547	-0.775	-2.41	3.458	-0.974	-2.76	MC
3H77ZR		5.152	-0.170	-0.53	4.387	-0.046	-0.13	MD
5BJQVM		5.478	0.157	0.49	4.875	0.443	1.26	MC
7CKE7U		4.770	-0.552	-1.71	3.762	-0.671	-1.90	MC
7Y4946	X	3.333	-1.988	-6.18	4.315	-0.117	-0.33	MC
8PKUYQ		5.188	-0.133	-0.41	4.193	-0.239	-0.68	MC
956EE9		5.370	0.048	0.15	4.611	0.179	0.51	MC
9F3J93		5.428	0.106	0.33	4.322	-0.110	-0.31	MC
AKHCW	*	6.257	0.935	2.90	5.242	0.809	2.30	TP
DXPVN4		5.257	-0.065	-0.20	4.170	-0.262	-0.74	MC
F3SCHA		5.260	-0.062	-0.19	4.283	-0.149	-0.42	MC
FEDF1V		5.210	-0.112	-0.35	4.193	-0.239	-0.68	MC
FZ98UD		5.817	0.495	1.54	4.818	0.386	1.09	MD
GRWX3R		5.088	-0.233	-0.72	4.137	-0.296	-0.84	MC
GWV5ZZ		5.392	0.070	0.22	4.488	0.056	0.16	XX
K995XJ		5.425	0.103	0.32	4.647	0.214	0.61	MC
L32YVL		5.048	-0.273	-0.85	4.090	-0.342	-0.97	MC
RDCWW		5.173	-0.148	-0.46	4.118	-0.314	-0.89	MC
RE4CB6		5.295	-0.027	-0.08	4.364	-0.068	-0.19	MC
RNNFWF		5.468	0.147	0.46	4.637	0.204	0.58	MC
RWFLW8		5.243	-0.078	-0.24	4.538	0.106	0.30	MC
T2U7K4		5.327	0.005	0.02	4.702	0.269	0.76	MC
T35DG5		5.407	0.085	0.26	4.547	0.114	0.32	MC
TCESQM		5.305	-0.017	-0.05	4.593	0.161	0.46	TP
UC8BZM		5.388	0.067	0.21	4.628	0.196	0.56	MC
UCADW		5.225	-0.097	-0.30	4.477	0.044	0.13	MD
UD7YUJ		5.480	0.158	0.49	4.657	0.224	0.64	MC
UV4SFA		5.425	0.103	0.32	4.608	0.176	0.50	MC
UWM3K		5.307	-0.015	-0.05	4.307	-0.126	-0.36	MC
Y3R4LD		5.320	-0.002	-0.01	4.353	-0.079	-0.22	MC
YBQX7Z		5.240	-0.082	-0.25	4.305	-0.127	-0.36	MC
YLRMPB		5.100	-0.222	-0.69	4.255	-0.177	-0.50	MC
YXEU1H		5.268	-0.053	-0.17	4.480	0.048	0.14	MC
Z7FHSE	*	6.263	0.942	2.92	5.258	0.826	2.34	TP

Rubber Interlaboratory Testing Program
Analysis 686
MDR Vulcanization-Cure Time 50% (minutes)

Summary Statistics	
Grand Means	
5.3217 minutes	4.4324 minutes
Std Dev Btwn Labs	
0.3219 minutes	0.3526 minutes
Statistics based on 34 of 35 reporting participants	

Samples W75-W76: EPDM compound, batch #1 & W77-W78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #686

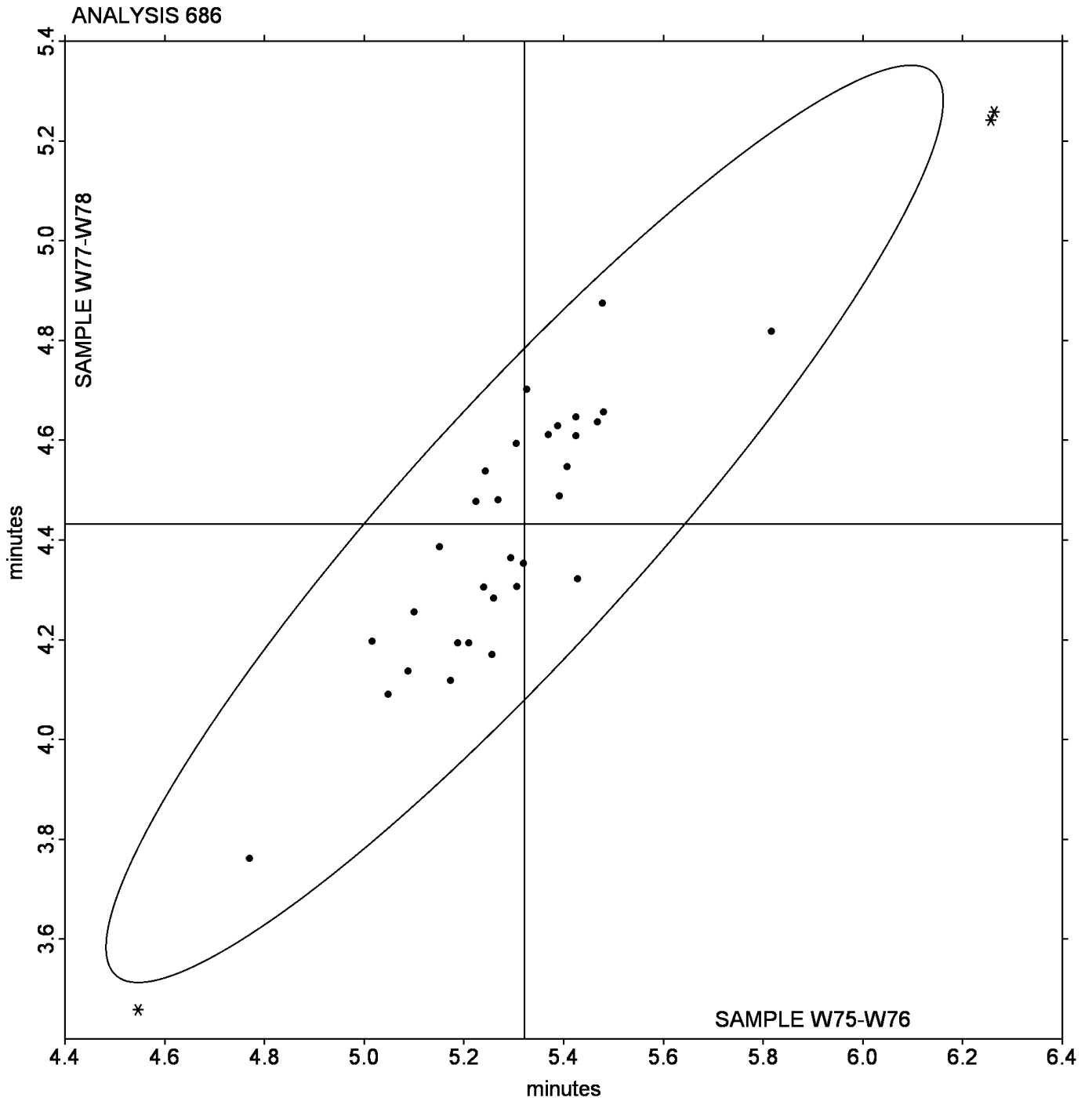
7Y4946 (X) - Inconsistency in testing between Sample sets. Data for Sample Set W75-W76 are low.

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample W75-W76 = 5.3217 minutes

Grand Mean Sample W77-W78 = 4.4324 minutes



Rubber Interlaboratory Testing Program

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample W75-W76			Sample W77-W78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1N46LA		8.334	-0.129	-0.33	7.331	-0.229	-0.66	MC
1QCNU2		8.175	-0.287	-0.73	7.285	-0.274	-0.79	MC
2NJE19		8.272	-0.191	-0.48	7.495	-0.064	-0.19	MC
2ZVKCD		8.517	0.054	0.14	7.537	-0.023	-0.07	MC
52JJA6		8.377	-0.086	-0.22	7.582	0.022	0.06	MC
596K83		8.283	-0.179	-0.45	7.175	-0.384	-1.10	MC
5T23CC		8.575	0.113	0.28	7.673	0.114	0.33	MC
64LR4H	*	9.727	1.264	3.20	8.563	1.004	2.89	TP
6KQ3TM		8.202	-0.261	-0.66	7.403	-0.156	-0.45	MD
8EEMJQ		8.420	-0.042	-0.11	7.613	0.054	0.15	MC
8T8ERJ		8.260	-0.202	-0.51	7.485	-0.074	-0.21	MD
988CQ2		8.420	-0.042	-0.11	7.600	0.041	0.12	MC
A5UFBH		8.295	-0.167	-0.42	7.663	0.104	0.30	MD
AXZV52		8.520	0.058	0.15	7.630	0.071	0.20	MC
CWCJM2	*	9.697	1.234	3.12	8.493	0.934	2.68	TP
DJPYJK		8.315	-0.147	-0.37	7.460	-0.099	-0.29	MC
DTU7HD	*	8.463	0.001	0.00	7.900	0.341	0.98	MC
FQJ68P	*	7.503	-0.959	-2.43	6.627	-0.933	-2.68	XX
FZ1B21		8.817	0.354	0.90	7.687	0.127	0.37	XX
GNWM7		8.462	-0.001	0.00	7.468	-0.091	-0.26	MC
GPTMCQ		8.192	-0.271	-0.69	7.288	-0.271	-0.78	MC
GUGAW		8.588	0.126	0.32	7.617	0.057	0.16	MC
HMB2KD		8.665	0.203	0.51	7.873	0.314	0.90	MC
K2HF1G		8.028	-0.434	-1.10	7.012	-0.548	-1.57	MC
KTURSE		8.382	-0.081	-0.20	7.583	0.024	0.07	MC
L5X5ZH		8.770	0.308	0.78	7.647	0.087	0.25	MC
LEQU3L		8.643	0.181	0.46	7.715	0.156	0.45	MC
RSXN7S		8.520	0.058	0.15	7.688	0.129	0.37	MC
TVY7L4		8.697	0.234	0.59	7.845	0.286	0.82	MC
UTGMSS		8.475	0.013	0.03	7.386	-0.173	-0.50	MC
VQGQZ5		8.585	0.123	0.31	7.708	0.149	0.43	MC
WSG8PK		8.192	-0.271	-0.69	7.392	-0.168	-0.48	TP
Y99YHR		8.058	-0.404	-1.02	7.200	-0.359	-1.03	MP
YL9EUE		8.325	-0.137	-0.35	7.330	-0.229	-0.66	MC
YQN9DJ		8.434	-0.029	-0.07	7.625	0.066	0.19	MC

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

Summary Statistics

Grand Means

8.4624 minutes

7.5594 minutes

Std Dev Btwn Labs

0.3950 minutes

0.3480 minutes

Statistics based on 35 of 35 reporting participants

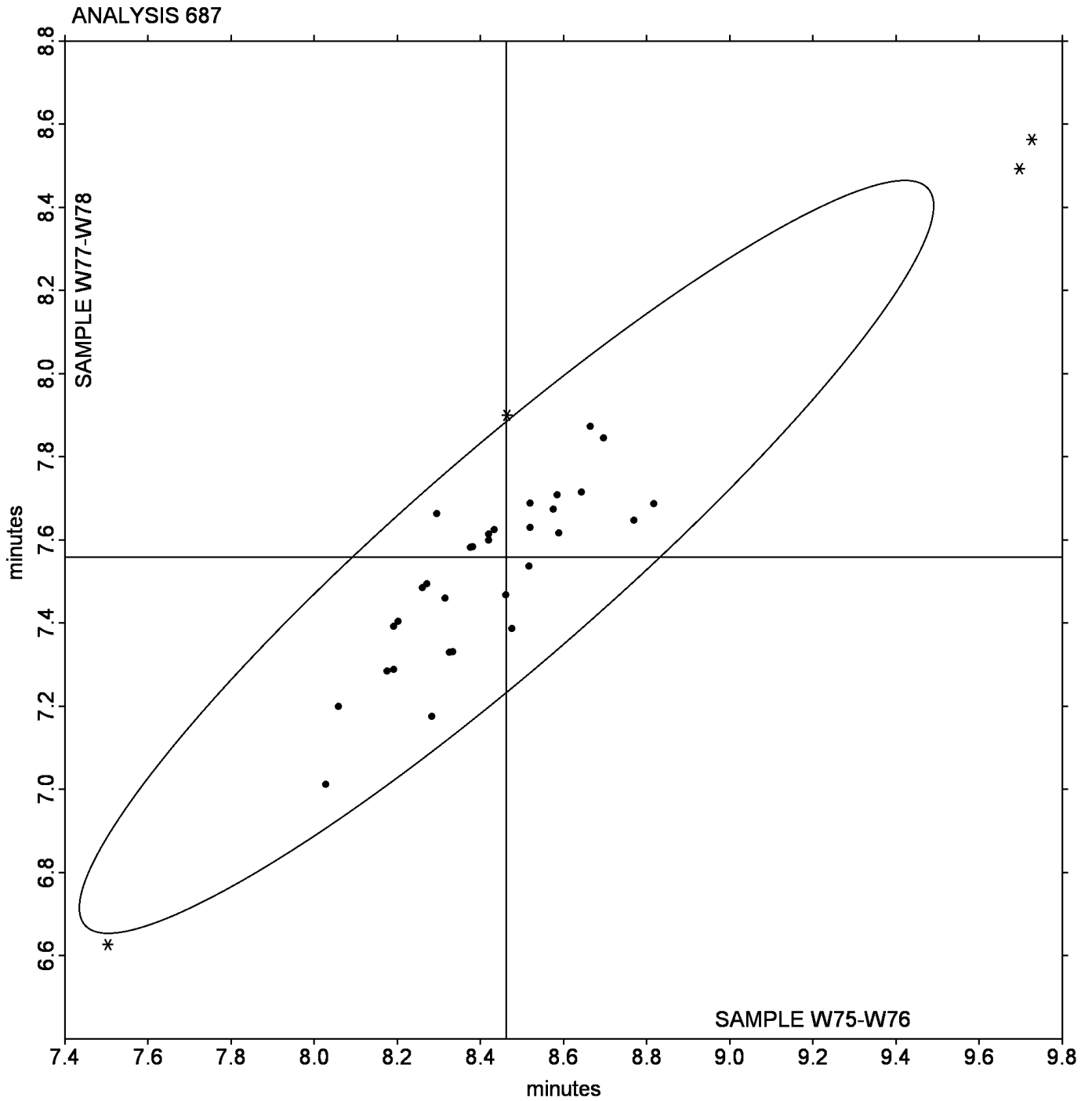
Samples W75-W76: EPDM compound, batch #1 & W77-W78: EPDM compound, batch #2

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample W75-W76 = 8.4624 minutes

Grand Mean Sample W77-W78 = 7.5594 minutes



Rubber Interlaboratory Testing Program

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample W75-W76			Sample W77-W78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1YLNDG		2.239	0.448	1.70	3.437	0.717	1.52	MC
241JV5	*	1.648	-0.144	-0.54	2.881	0.161	0.34	MC
2AVMLV		1.655	-0.136	-0.52	2.417	-0.303	-0.64	MC
2ET419		1.583	-0.208	-0.79	2.237	-0.483	-1.02	MC
2LB2GP		1.688	-0.103	-0.39	2.507	-0.213	-0.45	MC
3FA7S8		2.063	0.272	1.03	3.257	0.537	1.14	MC
49WMQ8		2.105	0.314	1.19	3.177	0.458	0.97	MC
5BKWF8		1.595	-0.196	-0.74	2.282	-0.438	-0.93	MC
5H2Z3W	X	2.652	0.860	3.26	3.787	1.067	2.26	MC
5ML722		2.096	0.305	1.15	3.264	0.545	1.15	MC
5TH61C		1.560	-0.231	-0.88	2.325	-0.395	-0.84	XX
A5HFSV		1.587	-0.205	-0.77	2.313	-0.407	-0.86	MC
B9PANV		2.173	0.382	1.45	3.517	0.797	1.69	MC
BTV8MC		1.745	-0.046	-0.17	2.618	-0.102	-0.21	MP
DU6B5V		1.675	-0.116	-0.44	2.373	-0.347	-0.73	MC
E9DWXJ		1.745	-0.046	-0.18	2.795	0.075	0.16	MC
FD86NB		1.607	-0.185	-0.70	2.374	-0.346	-0.73	MD
FDBJGZ		1.708	-0.083	-0.31	2.473	-0.247	-0.52	TP
FJGUF1		1.599	-0.192	-0.73	2.281	-0.439	-0.93	MC
FX1J6N		1.622	-0.170	-0.64	2.390	-0.330	-0.70	MC
HD7UFZ		1.657	-0.135	-0.51	2.370	-0.350	-0.74	MC
HHZM1U		2.114	0.323	1.22	3.282	0.562	1.19	MC
HTL3DH		1.628	-0.163	-0.62	2.337	-0.383	-0.81	MC
HYUHN6		1.753	-0.038	-0.14	2.532	-0.188	-0.40	TP
MQ4H84		1.915	0.124	0.47	3.023	0.303	0.64	MC
P99NV4		1.603	-0.188	-0.71	2.309	-0.411	-0.87	MD
PPFQF5		1.593	-0.199	-0.75	2.564	-0.156	-0.33	MD
PWLG29		1.778	-0.013	-0.05	2.732	0.012	0.02	MC
Q9XKJW		1.572	-0.220	-0.83	2.262	-0.458	-0.97	MC
QCHS3C		2.218	0.427	1.62	3.565	0.845	1.79	MC
QWGDU	*	1.652	-0.139	-0.53	2.881	0.161	0.34	MC
S24NGJ		2.077	0.285	1.08	3.227	0.507	1.07	MC
V784UV		1.608	-0.183	-0.69	2.508	-0.212	-0.45	MC
XCW4NG		1.460	-0.331	-1.25	2.088	-0.632	-1.34	TP
YJDGZ6	*	2.580	0.789	2.99	3.878	1.158	2.45	XX

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

Summary Statistics

Grand Means

1.7912 lbf.in

2.7199 lbf.in

Std Dev Btwn Labs

0.2640 lbf.in

0.4726 lbf.in

Statistics based on 34 of 35 reporting participants

Summary Statistics in SI Units

Grand Means

2.0238 dN.m

3.0730 dN.m

Std Dev Btwn Labs

0.2983 dN.m

0.5340 dN.m

Statistics based on 34 of 35 reporting participants

Samples W75-W76: EPDM compound, batch #1 & W77-W78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #688

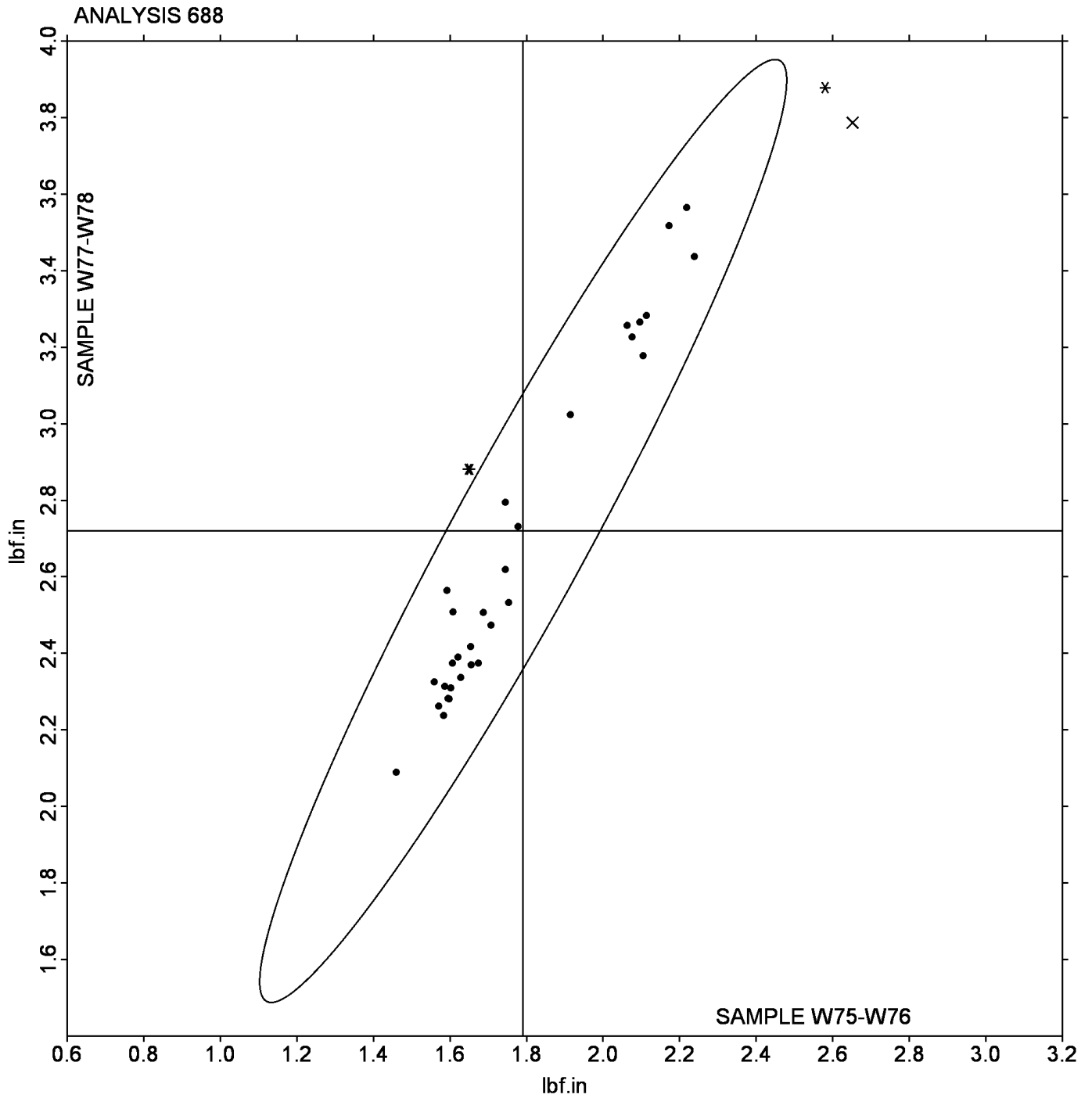
5H2Z3W (X) - Inconsistency in testing between Sample sets. Data for Sample Set W75-W76 are high.

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample W75-W76 = 1.7912 lbf.in

Grand Mean Sample W77-W78 = 2.7199 lbf.in



Rubber Interlaboratory Testing Program

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample W75-W76			Sample W77-W78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
19U64S		12.16	0.16	0.42	12.96	-0.34	-0.60	MD
1VMBHG		12.56	0.56	1.50	14.29	0.99	1.73	MC
2U55N5		12.39	0.39	1.04	14.16	0.86	1.50	MC
5HX3LQ		12.42	0.42	1.12	13.49	0.18	0.32	MC
69RXGV		11.95	-0.06	-0.16	13.86	0.56	0.98	MC
6V6W19		11.63	-0.37	-1.01	12.69	-0.61	-1.08	TP
6VSHJS		11.81	-0.19	-0.52	12.67	-0.63	-1.11	MC
6ZMG TG		12.20	0.19	0.52	13.20	-0.10	-0.18	MC
7CZAGL		11.25	-0.76	-2.04	12.69	-0.62	-1.09	MD
7H9DJG		12.76	0.75	2.04	14.20	0.89	1.57	MP
9X4LM1	*	11.41	-0.60	-1.61	11.83	-1.48	-2.60	MC
AZ84B2		12.22	0.22	0.58	13.61	0.31	0.54	MC
BRUTPN		11.93	-0.07	-0.19	13.12	-0.18	-0.32	MC
D59MHC		12.24	0.23	0.63	13.61	0.31	0.54	MC
F588LV		12.13	0.12	0.33	13.82	0.51	0.90	MC
FQFX6B		11.87	-0.13	-0.36	13.17	-0.13	-0.23	MC
GP3NT4		12.16	0.16	0.42	13.48	0.18	0.32	MC
HWX429		11.23	-0.77	-2.09	12.50	-0.80	-1.41	MD
K1PKFS		12.12	0.12	0.32	13.63	0.33	0.58	MC
K5L69H		11.84	-0.16	-0.44	13.60	0.30	0.53	MC
M4JVT5		12.06	0.05	0.15	13.47	0.16	0.28	MC
M5CBUL		12.15	0.14	0.39	13.29	-0.02	-0.03	MC
MLA7N5		12.30	0.29	0.78	13.30	0.00	0.00	MC
PWN9ZG		11.97	-0.03	-0.09	13.27	-0.03	-0.05	MC
RXU2DF		12.05	0.04	0.11	13.65	0.35	0.61	MC
SYDRJC		11.81	-0.19	-0.53	13.39	0.09	0.15	MC
T5JHUV		12.20	0.19	0.52	13.29	-0.01	-0.02	TP
TVYBV6		12.35	0.35	0.94	13.47	0.16	0.29	MC
UEHV6F		12.23	0.22	0.60	13.64	0.34	0.59	MC
V8NUB7		12.18	0.18	0.47	13.48	0.17	0.31	MC
WGNZW		12.22	0.21	0.57	13.46	0.15	0.27	MC
X4M23F	*	11.14	-0.86	-2.33	11.61	-1.69	-2.98	TP
Y71EHG		11.83	-0.17	-0.47	13.03	-0.28	-0.49	MC
YQWBW		11.93	-0.08	-0.21	13.27	-0.03	-0.06	XX
ZA4ED5	*	11.48	-0.53	-1.43	13.44	0.14	0.24	XX

**Rubber Interlaboratory Testing Program
Analysis 689****MDR Vulcanization: Maximum Torque (lbf.in)**

Summary Statistics**Grand Means**

12.004 lbf.in

13.304 lbf.in

Std Dev Btwn Labs

0.370 lbf.in

0.569 lbf.in

Statistics based on 35 of 35 reporting participants

Summary Statistics in SI Units**Grand Means**

13.563 dN.m

15.032 dN.m

Std Dev Btwn Labs

0.418 dN.m

0.643 dN.m

Statistics based on 35 of 35 reporting participants

Samples W75-W76: EPDM compound, batch #1 & W77-W78: EPDM compound, batch #2

