

Rubber Interlaboratory Testing Program

Summary Report #150- 4th Qtr 06

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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.

If there are any questions on the report or testing program, please contact:

**Collaborative Testing Services, Inc.
21331 Gentry Drive
Sterling, Virginia 20166 USA**

**+1-571-434-1925
FAX #: +1-571-434-1937
rubber@cts-interlab.com**

(Toll-free fax within the U.S.: 1-866-fax-2cts)

Office Hours: 8:00 a.m. - 4:30 p.m. ET

Key for Web Summary Report (Page 1 of 2)

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 D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
18QDPX		3,103.0	-192.7	-1.00	3,009.0	-253.6	-1.32	ZZ
19PBDC		3,357.5	61.8	0.32	3,274.1	11.4	0.06	ZZ
1GENXL		3,049.4	-246.3	-1.28	2,943.6	-319.1	-1.66	ZZ
1SY2Y3		3,347.0	51.3	0.27	3,280.5	17.9	0.09	ZZ
269ZJU	X	2,271.5	-1,024.2	-5.30	3,738.5	475.9	2.48	ZZ
26MPHN		3,082.1	-213.7	-1.11	3,021.9	-240.7	-1.25	ZZ
2M7E9U		3,199.0	-96.7	-0.50	3,167.5	-95.1	-0.49	ZZ
2VRL56		3,034.0	-261.7	-1.36	3,020.5	-242.1	-1.26	ZZ
2WM1RQ	*	3,547.0	251.3	1.30	3,687.5	424.9	2.21	ZZ
3Z2ZG3		3,350.5	54.8	0.28	3,253.0	-9.6	-0.05	ZZ
4Q6BV7		3,336.5	40.8	0.21	3,177.5	-85.1	-0.44	ZZ
4WGF7T		3,581.0	285.3	1.48	3,533.5	270.9	1.41	ZZ
4ZKK4S		3,150.5	-145.2	-0.75	3,122.0	-140.6	-0.73	ZZ
57DPFN		3,468.0	172.3	0.89	3,476.5	213.9	1.11	ZZ
5BYZP6		3,271.5	-24.2	-0.13	3,230.0	-32.6	-0.17	ZZ
5QEV43		3,545.5	249.8	1.29	3,558.0	295.4	1.54	ZZ
5UW5GL		3,521.0	225.3	1.17	3,448.5	185.9	0.97	ZZ
5ZLVJV		3,380.0	84.3	0.44	3,267.0	4.4	0.02	ZZ
63V17A		3,130.8	-165.0	-0.85	3,142.8	-119.9	-0.62	ZZ
68QSLY		2,929.8	-366.0	-1.90	3,045.8	-216.8	-1.13	ZZ
6CHWCH		3,363.0	67.2	0.35	3,368.0	105.4	0.55	ZZ
6CWASD	X	3,553.5	257.7	1.33	3,190.9	-71.8	-0.37	ZZ
6QJL5Y		3,624.0	328.3	1.70	3,658.5	395.9	2.06	ZZ
6UDPN5		3,449.4	153.6	0.80	3,399.4	136.8	0.71	ZZ
6Y9ALY		3,002.0	-293.7	-1.52	3,081.5	-181.1	-0.94	ZZ
72MEK1		3,431.5	135.8	0.70	3,451.5	188.9	0.98	ZZ
7HA7AM		3,261.9	-33.8	-0.18	3,233.6	-29.0	-0.15	ZZ
95DWQK	X	2,104.5	-1,191.2	-6.17	2,240.5	-1,022.1	-5.32	ZZ
97ZNTA		3,125.6	-170.2	-0.88	3,154.6	-108.0	-0.56	ZZ
9GDWV		3,187.0	-108.7	-0.56	3,147.0	-115.6	-0.60	ZZ
9HFKH2		2,881.0	-414.7	-2.15	2,833.0	-429.6	-2.24	ZZ
9SG4Q8		3,140.0	-155.7	-0.81	3,055.0	-207.6	-1.08	ZZ
AL76K9	*	2,905.0	-390.7	-2.02	2,785.5	-477.1	-2.48	ZZ
APY67Z		3,090.5	-205.2	-1.06	2,962.0	-300.6	-1.56	ZZ
AURAZG		3,337.7	42.0	0.22	3,397.8	135.2	0.70	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
B8FUSW		3,028.0	-267.7	-1.39	3,174.0	-88.6	-0.46	ZZ
BC1PTH	*	3,141.2	-154.5	-0.80	2,903.0	-359.6	-1.87	ZZ
BR9MJV		3,489.3	193.5	1.00	3,406.1	143.4	0.75	ZZ
C8TXPU		3,423.0	127.3	0.66	3,261.0	-1.6	-0.01	ZZ
CCGAXR		3,427.5	131.8	0.68	3,385.5	122.9	0.64	ZZ
CP7TQA		3,137.5	-158.2	-0.82	3,174.0	-88.6	-0.46	ZZ
CSV9CQ		3,341.0	45.3	0.23	3,298.5	35.9	0.19	ZZ
D5X7QP	X	2,074.2	-1,221.5	-6.33	2,313.0	-949.6	-4.94	ZZ
E4XKKA		3,448.8	153.0	0.79	3,473.5	210.9	1.10	ZZ
EGLNXN		3,438.1	142.4	0.74	3,393.2	130.6	0.68	ZZ
FF4XCV		3,029.9	-265.8	-1.38	3,055.8	-206.9	-1.08	ZZ
G5ZCAE	*	3,517.2	221.4	1.15	3,248.9	-13.7	-0.07	ZZ
G8UABC		3,330.5	34.8	0.18	3,260.0	-2.6	-0.01	ZZ
G98SAB		3,241.0	-54.7	-0.28	3,314.5	51.9	0.27	ZZ
GGZ1AN		3,501.0	205.3	1.06	3,408.5	145.9	0.76	ZZ
GJ58UF	X	2,922.8	-373.0	-1.93	2,712.0	-550.6	-2.87	ZZ
GLR1SR		3,435.0	139.3	0.72	3,239.5	-23.1	-0.12	ZZ
GPVTK5		3,338.0	42.3	0.22	3,346.5	83.9	0.44	ZZ
HNHGPI		3,333.0	37.3	0.19	3,201.5	-61.1	-0.32	ZZ
HS8TGW	*	3,846.5	550.8	2.85	3,774.0	511.4	2.66	ZZ
HUM864		3,288.5	-7.2	-0.04	3,388.5	125.9	0.66	ZZ
J52KYS		3,239.0	-56.7	-0.29	3,205.5	-57.1	-0.30	ZZ
J6X1BP		3,325.0	29.3	0.15	3,361.0	98.4	0.51	ZZ
J8K8FP		3,488.5	192.8	1.00	3,517.5	254.9	1.33	ZZ
JAXRQM		3,067.5	-228.2	-1.18	3,114.5	-148.1	-0.77	ZZ
JFZF1U		3,261.0	-34.7	-0.18	3,244.5	-18.1	-0.09	ZZ
JL61YY		3,471.0	175.3	0.91	3,342.0	79.4	0.41	ZZ
JVGUD6		3,265.9	-29.8	-0.15	3,256.0	-6.6	-0.03	ZZ
KAW38N		2,896.5	-399.2	-2.07	2,928.0	-334.6	-1.74	ZZ
KAZP44		3,555.0	259.3	1.34	3,481.0	218.4	1.14	ZZ
KD3JV6		3,227.0	-68.7	-0.36	3,204.0	-58.6	-0.31	ZZ
KR3DUU		3,071.2	-224.5	-1.16	3,127.0	-135.6	-0.71	ZZ
L7CCFX		3,389.0	93.3	0.48	3,403.0	140.4	0.73	ZZ
LEFFU9		3,275.0	-20.8	-0.11	3,285.1	22.5	0.12	ZZ
LURYKB		3,239.5	-56.2	-0.29	3,215.5	-47.1	-0.25	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
LUUL23		3,106.0	-189.7	-0.98	3,101.5	-161.1	-0.84	ZZ
LXR4PU	X	2,717.5	-578.2	-2.99	3,270.5	7.9	0.04	ZZ
M72943		3,076.0	-219.7	-1.14	3,026.5	-236.1	-1.23	ZZ
MZXWP		3,123.0	-172.7	-0.89	3,109.5	-153.1	-0.80	ZZ
N185F9		3,543.0	247.3	1.28	3,519.0	256.4	1.33	ZZ
N1FLYZ		3,354.0	58.3	0.30	3,240.0	-22.6	-0.12	ZZ
NAFXV8		3,249.6	-46.1	-0.24	3,247.4	-15.2	-0.08	ZZ
NAYJUQ		3,234.2	-61.6	-0.32	3,209.4	-53.2	-0.28	ZZ
NBZ5HB		3,628.2	332.4	1.72	3,505.6	243.0	1.26	ZZ
P49JRH		3,352.5	56.8	0.29	3,277.5	14.9	0.08	ZZ
PUFDKA		3,591.4	295.6	1.53	3,484.7	222.1	1.16	ZZ
PYB79Y		3,448.5	152.8	0.79	3,391.5	128.9	0.67	ZZ
QBGHLS		3,491.5	195.8	1.01	3,406.5	143.9	0.75	ZZ
QLB1DD		3,472.0	176.3	0.91	3,375.0	112.4	0.58	ZZ
QR2SRV		3,268.5	-27.2	-0.14	3,230.0	-32.6	-0.17	ZZ
R79QRS		3,090.8	-205.0	-1.06	3,129.9	-132.7	-0.69	ZZ
R91TE7		3,329.0	33.3	0.17	3,416.0	153.4	0.80	ZZ
RD88UH		3,195.9	-99.8	-0.52	3,150.6	-112.1	-0.58	ZZ
REK7PR		3,366.4	70.6	0.37	3,283.7	21.1	0.11	ZZ
RK6PXQ		3,300.5	4.8	0.02	3,193.5	-69.1	-0.36	ZZ
SANBTS		3,540.0	244.3	1.27	3,412.5	149.9	0.78	ZZ
SS8KMM		3,482.4	186.6	0.97	3,420.0	157.4	0.82	ZZ
SX4YUX		3,049.0	-246.7	-1.28	2,968.0	-294.6	-1.53	ZZ
TB46DK		3,328.6	32.9	0.17	3,386.7	124.0	0.65	ZZ
TSQP5L		3,051.5	-244.2	-1.26	3,118.5	-144.1	-0.75	ZZ
TX1T2E		3,386.0	90.3	0.47	3,332.0	69.4	0.36	ZZ
U5BF71		3,317.0	21.3	0.11	3,332.3	69.7	0.36	ZZ
U6VZKZ	*	3,186.5	-109.2	-0.57	2,942.6	-320.0	-1.67	ZZ
UNJD2B		3,204.0	-91.7	-0.48	3,238.5	-24.1	-0.13	ZZ
UQC2MS		2,922.5	-373.2	-1.93	2,890.6	-372.0	-1.94	ZZ
V7794X		3,526.0	230.3	1.19	3,489.5	226.9	1.18	ZZ
V9T4E4		3,359.0	63.3	0.33	3,273.5	10.9	0.06	ZZ
VYXQVZ		3,617.5	321.8	1.67	3,600.0	337.4	1.76	ZZ
W5JYYQ		3,103.1	-192.6	-1.00	3,115.4	-147.2	-0.77	ZZ
WUK352		3,478.5	182.8	0.95	3,447.0	184.4	0.96	ZZ

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XF88QR		3,478.8	183.0	0.95	3,488.2	225.6	1.17	ZZ
XLHKSX		3,325.5	29.8	0.15	3,424.0	161.4	0.84	ZZ
XVH1B8	X	3,198.1	-97.6	-0.51	2,850.0	-412.6	-2.15	ZZ
Y5VR74		3,066.0	-229.7	-1.19	2,965.5	-297.1	-1.55	ZZ
YF5VX1		3,504.9	209.1	1.08	3,424.4	161.8	0.84	ZZ
YNFC27		3,155.3	-140.4	-0.73	3,089.6	-173.1	-0.90	ZZ
YNRSXA		3,353.3	57.6	0.30	3,399.0	136.4	0.71	ZZ
YTR79A		2,932.5	-363.2	-1.88	3,036.0	-226.6	-1.18	ZZ
YVKDB		3,281.5	-14.2	-0.07	3,293.8	31.2	0.16	ZZ
ZDBT3X		3,313.5	17.8	0.09	3,429.1	166.5	0.87	ZZ
ZK7RGZ		3,430.2	134.4	0.70	3,408.4	145.8	0.76	ZZ
ZL8BPN		3,031.3	-264.5	-1.37	2,937.7	-325.0	-1.69	ZZ
ZPB15P		3,494.0	198.3	1.03	3,412.5	149.9	0.78	ZZ

Summary Statistics	
Grand Means	
3,295.75 psi	3,262.62 psi
Std Dev Btwn Labs	
193.08 psi	192.17 psi
Statistics based on 111 of 118 reporting participants	

Summary Statistics in SI Units	
Grand Means	
22.723 MPa	22.49 MPa
Std Dev Btwn Labs	
1.331 MPa	1.32 MPa
Statistics based on 111 of 118 reporting participants	

Samples D61-D62: Polyisoprene compound, batch #1 & D63-D64: Polyisoprene compound, batch #2

Analysis 605

Tensile Strength (psi)

Comments on assigned Data Flags for Test #605

269ZJU (X) - Inconsistency in testing between Sample sets. Data for Sample D61 are low.

6CWASD (X) - Inconsistency in testing between Sample sets. Data for Sample D62 are high.

95DWQK (X) - Data for all Samples are low.

D5X7QP (X) - Data for all Samples are low. Also inconsistent in testing within both Sample sets.

GJ58UF (X) - Inconsistency in testing between Sample sets. Data for Sample set B63-B64 are low.

LYR4PU (X) - Inconsistency in testing between Sample sets. Data for Sample set D61-D62 are low.

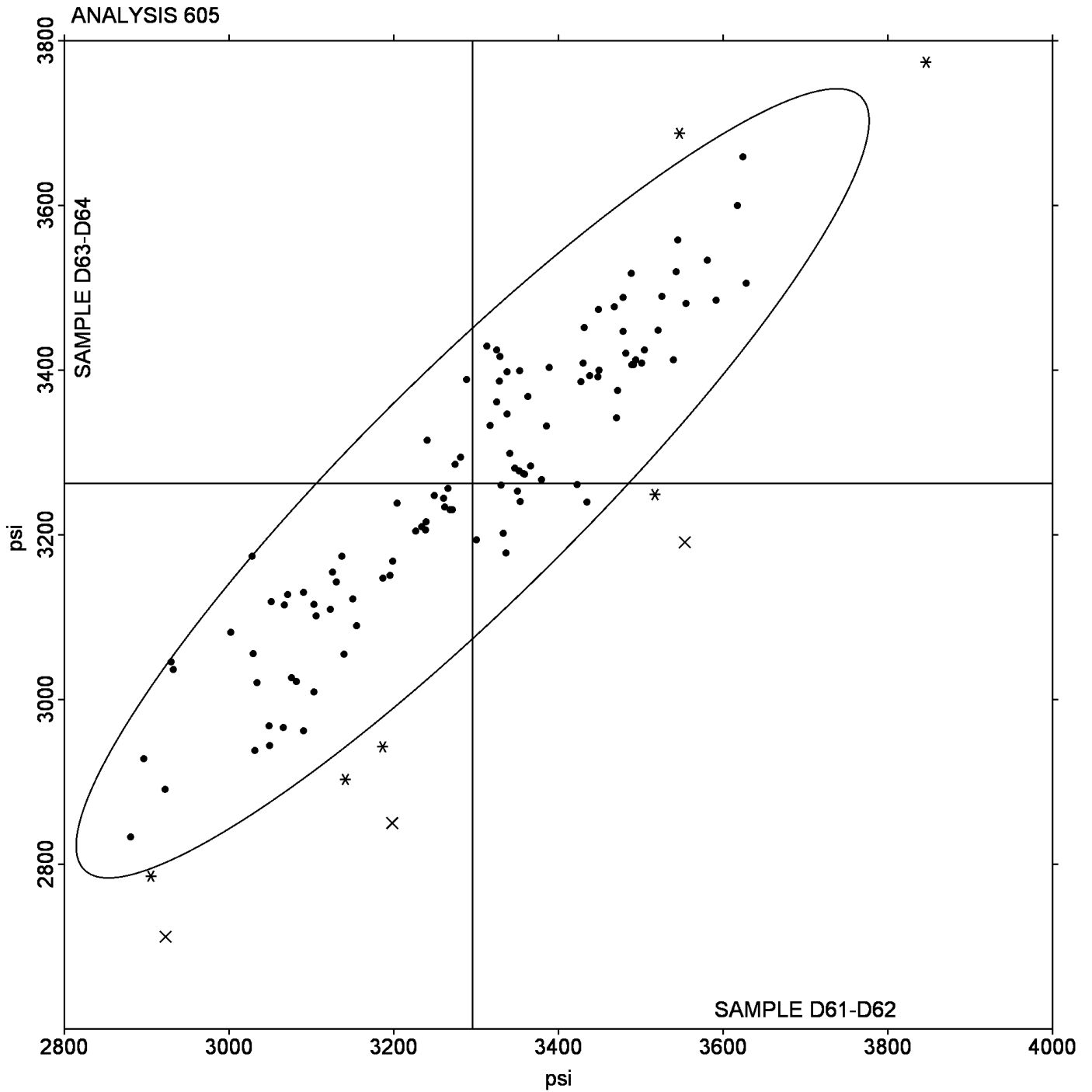
XVH1B8 (X) - Inconsistency in testing between Sample sets. Also inconsistent in testing within Sample set D63-D64.

Analysis 605

Tensile Strength (psi)

Grand Mean Sample D61-D62 = 3,295.75 psi

Grand Mean Sample D63-D64 = 3,262.62 psi



Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1BPCNN		563.5	-25.6	-0.96	554.5	-34.0	-1.27	ZZ
1RBRP8		605.2	16.1	0.60	606.4	17.9	0.66	ZZ
26MNQM		569.0	-20.1	-0.75	575.5	-13.0	-0.48	ZZ
35DTQG		565.2	-23.9	-0.90	564.4	-24.1	-0.90	ZZ
3G6AMV		606.0	16.9	0.63	610.0	21.5	0.80	ZZ
3NLA CT		580.0	-9.1	-0.34	580.0	-8.5	-0.32	ZZ
3RU6MA		549.0	-40.1	-1.50	549.5	-39.0	-1.45	ZZ
454G9A	*	584.4	-4.7	-0.18	554.5	-34.1	-1.27	ZZ
45TFXN		615.5	26.4	0.99	602.0	13.5	0.50	ZZ
4J9FL1		615.5	26.4	0.99	623.5	35.0	1.30	ZZ
51DX1J		597.0	7.9	0.30	601.0	12.5	0.46	ZZ
51MLY6		562.5	-26.6	-1.00	571.0	-17.5	-0.65	ZZ
54SY2B		597.5	8.4	0.32	589.5	1.0	0.04	ZZ
64F473		580.0	-9.1	-0.34	577.0	-11.5	-0.43	ZZ
6XMMG		561.0	-28.1	-1.05	556.0	-32.5	-1.21	ZZ
7BFJ3G		609.5	20.4	0.77	608.5	20.0	0.74	ZZ
7XR5G8		559.9	-29.2	-1.10	563.5	-25.0	-0.93	ZZ
8CU87S		588.5	-0.6	-0.02	602.5	14.0	0.52	ZZ
8JZYMR	X	936.0	346.9	13.01	905.5	317.0	11.79	ZZ
8X1LXT	X	442.5	-146.6	-5.50	479.5	-109.0	-4.05	ZZ
9PGTU8		585.0	-4.1	-0.15	572.5	-16.0	-0.60	ZZ
9QV8BG		590.0	0.9	0.03	589.5	1.0	0.04	ZZ
9RNEEE		564.0	-25.1	-0.94	564.0	-24.5	-0.91	ZZ
9TCJBT		552.0	-37.1	-1.39	567.5	-21.0	-0.78	ZZ
A5DNLC		592.5	3.4	0.13	577.5	-11.0	-0.41	ZZ
AQDN9H		612.5	23.4	0.88	604.8	16.2	0.60	ZZ
AT7M3G		614.0	24.9	0.93	626.5	38.0	1.41	ZZ
AZ3KMX		569.2	-19.8	-0.74	562.6	-25.9	-0.96	ZZ
AZP8Y6		586.0	-3.1	-0.12	584.5	-4.0	-0.15	ZZ
BC2M3R	X	760.5	171.4	6.43	707.0	118.5	4.41	ZZ
BFY7RA		616.0	26.9	1.01	621.0	32.5	1.21	ZZ
BGMS3S		636.0	46.9	1.76	626.5	38.0	1.41	ZZ
BP45EY		641.5	52.4	1.97	643.0	54.5	2.03	ZZ
BQNYC2	X	612.5	23.4	0.88	572.5	-16.0	-0.60	ZZ
BYLMED		600.5	11.4	0.43	609.0	20.5	0.76	ZZ

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
C3P3ST	*	596.0	6.9	0.26	567.5	-21.0	-0.78	ZZ
C41RCT		585.0	-4.1	-0.15	566.5	-22.0	-0.82	ZZ
C8LG82	X	526.5	-62.6	-2.35	599.5	11.0	0.41	ZZ
CA6CHA		561.5	-27.6	-1.03	557.0	-31.5	-1.17	ZZ
CHQFSB		543.0	-46.1	-1.73	542.5	-46.0	-1.71	ZZ
CRDJJY		564.8	-24.3	-0.91	565.5	-23.0	-0.86	ZZ
DM7DDB		550.5	-38.6	-1.45	563.0	-25.5	-0.95	ZZ
DXHN8A		617.7	28.6	1.07	614.1	25.6	0.95	ZZ
DYMC7Z	*	513.2	-75.9	-2.84	508.9	-79.7	-2.96	ZZ
ED89Q1		620.0	30.9	1.16	612.0	23.5	0.87	ZZ
EEE7H5		600.0	10.9	0.41	607.5	19.0	0.71	ZZ
EWJU14		612.0	22.9	0.86	622.0	33.5	1.24	ZZ
EWT2LJ		557.0	-32.1	-1.20	559.0	-29.5	-1.10	ZZ
EZAQ25		562.5	-26.6	-1.00	576.0	-12.5	-0.47	ZZ
FAEL7R		594.0	4.9	0.18	587.0	-1.5	-0.06	ZZ
FC157Q		605.0	15.9	0.60	592.5	4.0	0.15	ZZ
FLAKRS		593.5	4.4	0.17	598.5	10.0	0.37	ZZ
FVPDBD	X	483.0	-106.1	-3.98	536.0	-52.5	-1.95	ZZ
G3312E		643.0	53.9	2.02	646.5	58.0	2.16	ZZ
GHSQWS		605.0	15.9	0.60	600.0	11.5	0.43	ZZ
GZNEKT		547.0	-42.1	-1.58	540.0	-48.5	-1.80	ZZ
H14R85		570.5	-18.6	-0.70	583.0	-5.5	-0.21	ZZ
H2XPEP		624.5	35.4	1.33	623.5	35.0	1.30	ZZ
HEYBD7		635.5	46.4	1.74	636.5	48.0	1.78	ZZ
HHR6J2		603.0	13.9	0.52	597.5	9.0	0.33	ZZ
HWQAQ	X	570.0	-19.1	-0.72	630.0	41.5	1.54	ZZ
J7JWHG		606.0	16.9	0.63	604.0	15.5	0.58	ZZ
JA86RV		603.0	13.9	0.52	593.5	5.0	0.18	ZZ
JRRBEM	*	546.5	-42.6	-1.60	578.5	-10.0	-0.37	ZZ
JXRSZF		611.5	22.4	0.84	598.5	10.0	0.37	ZZ
K6R1W7		574.9	-14.2	-0.53	590.9	2.3	0.09	ZZ
L5F8LA	*	600.0	10.9	0.41	570.0	-18.5	-0.69	ZZ
L7FYBD		588.0	-1.1	-0.04	584.5	-4.0	-0.15	ZZ
LGB897		561.5	-27.6	-1.03	570.5	-18.0	-0.67	ZZ
LTNP5J		591.0	1.9	0.07	589.0	0.5	0.02	ZZ

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MQUNE		583.0	-6.1	-0.23	592.3	3.7	0.14	ZZ
MSQK5G		601.7	12.6	0.47	586.1	-2.5	-0.09	ZZ
MZX3UA		632.5	43.4	1.63	641.5	53.0	1.97	ZZ
N1MQXA		600.0	10.9	0.41	601.5	13.0	0.48	ZZ
NM1D8U		526.5	-62.6	-2.35	528.5	-60.0	-2.23	ZZ
NZJQHX		561.5	-27.6	-1.03	558.0	-30.5	-1.14	ZZ
P44DS7		551.5	-37.6	-1.41	569.0	-19.5	-0.73	ZZ
PEPHEZ		578.5	-10.6	-0.40	556.0	-32.5	-1.21	ZZ
Q1PGEP		645.2	56.1	2.10	643.6	55.1	2.05	ZZ
Q7Q2GE		639.0	49.9	1.87	636.0	47.5	1.77	ZZ
QUHE8G		590.0	0.9	0.03	598.5	10.0	0.37	ZZ
RJEK8P		570.5	-18.6	-0.70	560.3	-28.3	-1.05	ZZ
RPX1DU		574.5	-14.6	-0.55	561.5	-27.0	-1.00	ZZ
RXDFGQ		559.0	-30.1	-1.13	570.0	-18.5	-0.69	ZZ
SAWPN2		556.5	-32.6	-1.22	535.0	-53.5	-1.99	ZZ
SBQDYV		595.5	6.4	0.24	595.0	6.5	0.24	ZZ
SF5UHM		567.5	-21.6	-0.81	567.0	-21.5	-0.80	ZZ
SF7G4F		574.5	-14.6	-0.55	574.5	-14.0	-0.52	ZZ
SLYWLZ		623.0	33.9	1.27	619.0	30.5	1.13	ZZ
SNKSW7		601.0	11.9	0.45	596.5	8.0	0.30	ZZ
T9EUGL		572.0	-17.1	-0.64	594.0	5.5	0.20	ZZ
TR39SW		583.0	-6.1	-0.23	585.0	-3.5	-0.13	ZZ
TUMXLX		565.0	-24.1	-0.90	580.5	-8.0	-0.30	ZZ
ULELAY		605.5	16.4	0.62	597.5	9.0	0.33	ZZ
UMRYT6		574.1	-15.0	-0.56	572.4	-16.1	-0.60	ZZ
V3DJ75		552.5	-36.6	-1.37	558.0	-30.5	-1.14	ZZ
V6ATR1		583.5	-5.6	-0.21	587.0	-1.5	-0.06	ZZ
V7DSBE		610.5	21.4	0.80	617.5	29.0	1.08	ZZ
VAEMK		569.0	-20.1	-0.75	571.5	-17.0	-0.63	ZZ
VBXNLC		590.0	0.9	0.03	590.0	1.5	0.05	ZZ
VE XVPP		623.0	33.9	1.27	612.0	23.5	0.87	ZZ
VRKS92		610.5	21.4	0.80	599.0	10.5	0.39	ZZ
W34PMR		625.0	35.9	1.35	604.5	16.0	0.59	ZZ
WFSNP2		618.0	28.9	1.08	611.0	22.5	0.84	ZZ
WM2KFC		618.6	29.5	1.10	619.7	31.2	1.16	ZZ

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
WVSJY1	X	507.0	-82.1	-3.08	497.5	-91.0	-3.38	ZZ
X1JHC1		589.5	0.4	0.02	585.5	-3.0	-0.11	ZZ
XHETJV		631.0	41.9	1.57	633.5	45.0	1.67	ZZ
YCGMA	*	603.5	14.4	0.54	628.7	40.1	1.49	ZZ
YDV7ZM		591.5	2.4	0.09	587.0	-1.5	-0.06	ZZ
YG4X3X		561.5	-27.6	-1.03	558.5	-30.0	-1.12	ZZ
Z1AEGC		584.5	-4.6	-0.17	571.0	-17.5	-0.65	ZZ
Z47H7T		573.5	-15.6	-0.58	593.5	5.0	0.18	ZZ
ZAYJY8		587.5	-1.6	-0.06	580.0	-8.5	-0.32	ZZ
ZLXLS4	*	578.5	-10.6	-0.40	606.0	17.5	0.65	ZZ
ZR2B8N		601.0	11.9	0.45	607.5	19.0	0.71	ZZ
ZXBSA4		622.0	32.9	1.23	625.0	36.5	1.36	ZZ

Grand Means		Summary Statistics	
	589.09 percent		588.53 percent
Std Dev Btwn Labs			
	26.67 percent		26.89 percent
Statistics based on 109 of 117 reporting participants			

Samples D61-D62: Polyisoprene compound, batch #1 & D63-D64: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #606

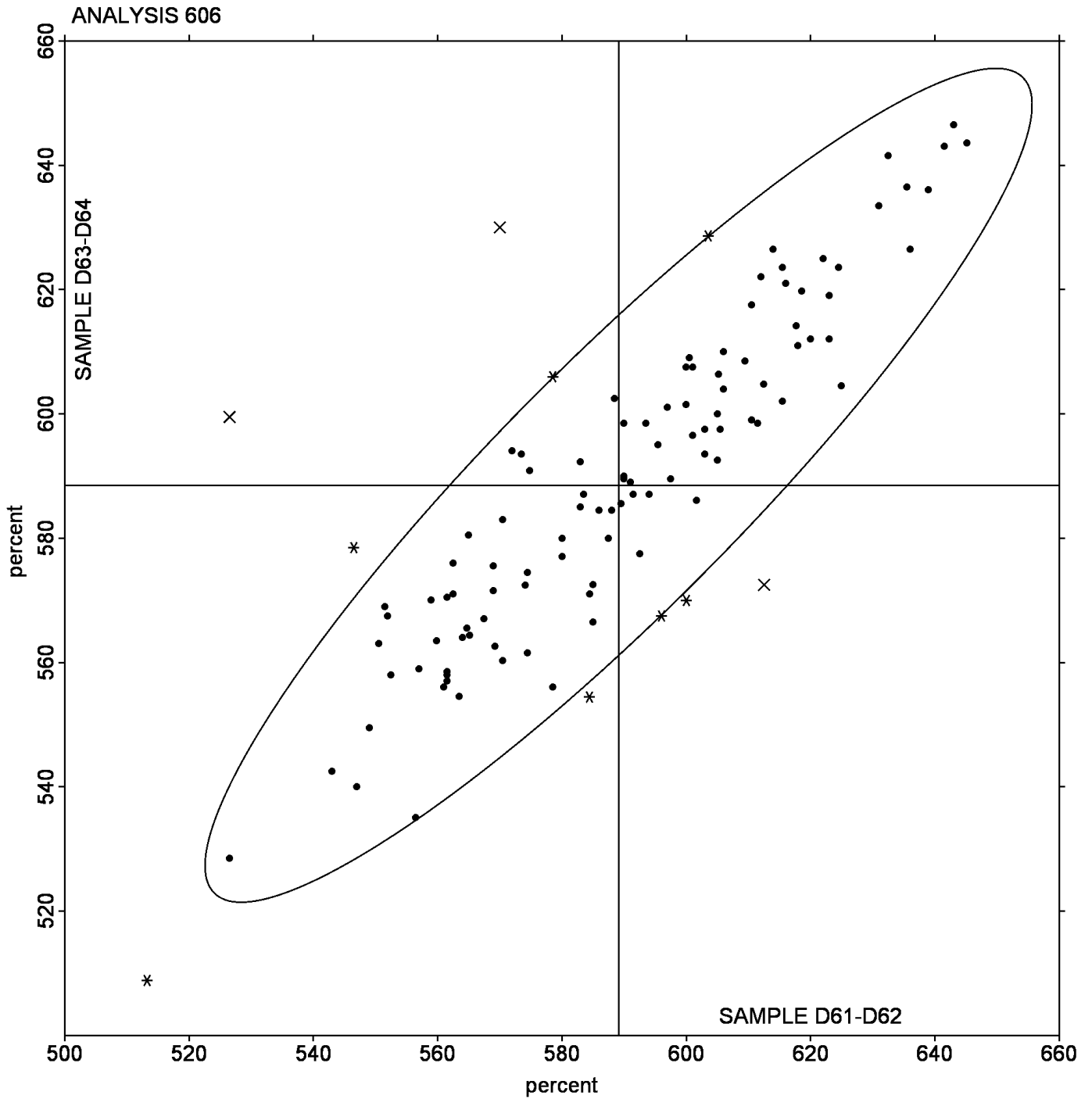
- 8JZYMR (X) - Data for all Samples are high.
- 8X1LXT (X) - Data for all Samples are low. Also inconsistent in testing within both Sample sets.
- BC2M3R (X) - Data for all Samples are high. Also inconsistent in testing within Sample set D61-D62.
- BQNYC2 (X) - Inconsistency in testing between Sample sets. Also inconsistent in testing within Sample set D61-D62.
- C8LG82 (X) - Inconsistency in testing between Sample sets.
- FVPDBD (X) - Inconsistency in testing between Sample sets. Data for Sample set D61-D62 are low.
- HWQAQD (X) - Inconsistency in testing between Sample sets. Also inconsistent in testing within Sample set D61-D62.
- WVSJY1 (X) - Data for all Samples are low.

Analysis 606

Ultimate Elongation (percent)

Grand Mean Sample D61-D62 = 589.09 percent

Grand Mean Sample D63-D64 = 588.53 percent



Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
15L4JF		1,083.0	5.7	0.08	1,014.0	-47.5	-0.68	ZZ
1AYE2G	X	1,255.3	178.0	2.65	1,295.2	233.7	3.33	ZZ
1JEV1X		1,076.2	-1.1	-0.02	1,071.8	10.3	0.15	ZZ
1YZSJY		1,104.5	27.2	0.40	1,052.5	-9.0	-0.13	ZZ
224N32		991.0	-86.3	-1.28	1,022.5	-39.0	-0.56	ZZ
22NGRH		1,062.0	-15.3	-0.23	1,022.0	-39.5	-0.56	ZZ
2J2GDM		1,073.0	-4.3	-0.06	1,085.0	23.5	0.33	ZZ
2JTRV4		1,042.0	-35.3	-0.52	1,057.5	-4.0	-0.06	ZZ
2KJ3AP		1,007.8	-69.5	-1.03	952.5	-109.0	-1.55	ZZ
2M1RD3		965.5	-111.8	-1.66	941.5	-120.0	-1.71	ZZ
2SMYFV		1,087.0	9.7	0.14	1,068.0	6.5	0.09	ZZ
32PPS3		1,153.5	76.2	1.13	1,206.5	145.0	2.06	ZZ
37EY22		1,160.0	82.7	1.23	1,108.5	47.0	0.67	ZZ
38AEEY	X	768.1	-309.2	-4.60	711.2	-350.3	-4.99	ZZ
3JCSLR		1,057.5	-19.8	-0.29	1,053.5	-8.0	-0.11	ZZ
429JBH		1,148.0	70.7	1.05	1,132.5	71.0	1.01	ZZ
4KARJA		950.4	-126.9	-1.89	966.4	-95.1	-1.35	ZZ
59U5DV		1,080.5	3.2	0.05	1,066.0	4.5	0.06	ZZ
5CHTRU		1,106.0	28.7	0.43	1,094.0	32.5	0.46	ZZ
6953MC		1,075.5	-1.8	-0.03	1,056.6	-4.9	-0.07	ZZ
6VEE6J		1,156.5	79.2	1.18	1,131.5	70.0	1.00	ZZ
7SS5N5		1,148.0	70.7	1.05	1,117.0	55.5	0.79	ZZ
7TK3UR		1,136.3	59.0	0.88	1,121.5	60.0	0.85	ZZ
83J2WJ		1,049.0	-28.3	-0.42	1,033.0	-28.5	-0.41	ZZ
84WTW1		1,016.0	-61.3	-0.91	1,002.0	-59.5	-0.85	ZZ
932CJJ		1,029.0	-48.3	-0.72	977.0	-84.5	-1.20	ZZ
9DA6D3		1,071.0	-6.3	-0.09	1,087.5	26.0	0.37	ZZ
9HV43Y		1,200.0	122.7	1.82	1,138.5	77.0	1.10	ZZ
9N7PGK		1,215.7	138.4	2.06	1,159.0	97.5	1.39	ZZ
9QHQQFQ		1,096.5	19.2	0.29	1,008.0	-53.5	-0.76	ZZ
9RU9KT	X	640.5	-436.8	-6.49	1,074.5	13.0	0.19	ZZ
9S2QFD		1,054.0	-23.3	-0.35	1,084.0	22.5	0.32	ZZ
A4R16W		1,118.5	41.2	0.61	1,027.5	-34.0	-0.48	ZZ
A6TYK5		1,063.6	-13.7	-0.20	1,018.8	-42.7	-0.61	ZZ
A7NLYU		1,115.0	37.7	0.56	1,037.0	-24.5	-0.35	ZZ

Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ABEGKT		1,065.0	-12.3	-0.18	1,117.5	56.0	0.80	ZZ
AK3JA3		1,029.5	-47.8	-0.71	1,066.0	4.5	0.06	ZZ
B6AG2W	X	1,375.0	297.7	4.42	1,319.6	258.0	3.67	ZZ
B7PSWV		1,091.7	14.4	0.21	1,057.2	-4.3	-0.06	ZZ
BJ2623	X	1,121.0	43.7	0.65	1,275.5	214.0	3.05	ZZ
BKMDZ		1,008.0	-69.3	-1.03	944.2	-117.3	-1.67	ZZ
BMC7NT		1,089.7	12.4	0.18	1,112.4	50.9	0.72	ZZ
BN4XKE		1,140.5	63.2	0.94	1,113.0	51.5	0.73	ZZ
CD4X67		990.0	-87.3	-1.30	981.0	-80.5	-1.15	ZZ
CY5UQ8		992.0	-85.3	-1.27	986.5	-75.0	-1.07	ZZ
DG4BMH		1,042.2	-35.1	-0.52	988.4	-73.1	-1.04	ZZ
DKDDU1		1,158.3	81.0	1.20	1,176.3	114.8	1.64	ZZ
DPFQTS		1,054.0	-23.3	-0.35	979.5	-82.0	-1.17	ZZ
ELRLUT		1,089.5	12.2	0.18	1,072.0	10.5	0.15	ZZ
EP39ZC		1,054.0	-23.3	-0.35	1,047.5	-14.0	-0.20	ZZ
F4KP89		1,080.5	3.2	0.05	1,072.5	11.0	0.16	ZZ
FF7LN7		974.0	-103.3	-1.54	977.6	-83.9	-1.19	ZZ
FU4SKA		1,120.5	43.2	0.64	1,125.5	64.0	0.91	ZZ
G1747U		1,143.0	65.7	0.98	1,092.0	30.5	0.43	ZZ
GGVCBK		1,083.1	5.8	0.09	1,057.0	-4.5	-0.06	ZZ
GMAS3A		963.0	-114.3	-1.70	899.0	-162.5	-2.31	ZZ
HNN4PR		1,092.5	15.2	0.23	1,106.0	44.5	0.63	ZZ
HP2TS4		1,086.0	8.7	0.13	1,050.5	-11.0	-0.16	ZZ
HR4Q6C		972.5	-104.8	-1.56	930.5	-131.0	-1.87	ZZ
HTMGPN		1,127.0	49.7	0.74	1,049.4	-12.1	-0.17	ZZ
HVMPK7		1,022.2	-55.1	-0.82	1,036.4	-25.1	-0.36	ZZ
J1X3BW		1,059.5	-17.8	-0.26	1,031.5	-30.0	-0.43	ZZ
JW1G8N		1,039.0	-38.3	-0.57	1,021.0	-40.5	-0.58	ZZ
K16HWH		1,129.0	51.7	0.77	1,157.0	95.4	1.36	ZZ
K8B7UV		1,042.3	-35.0	-0.52	1,052.8	-8.8	-0.12	ZZ
KT8255	*	873.0	-204.3	-3.04	858.0	-203.5	-2.90	ZZ
KW7QM		1,125.5	48.2	0.72	1,032.8	-28.8	-0.41	ZZ
KWLBJV	*	1,038.7	-38.6	-0.57	1,139.8	78.2	1.11	ZZ
L4RP4X		1,129.1	51.8	0.77	1,058.1	-3.4	-0.05	ZZ
LBKYZ9		1,173.0	95.7	1.42	1,155.0	93.5	1.33	ZZ

Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
LWCXQ6		1,046.0	-31.3	-0.47	1,035.0	-26.5	-0.38	ZZ
LZ3SVN		1,123.5	46.2	0.69	1,112.0	50.5	0.72	ZZ
MGXWR		1,096.0	18.7	0.28	1,036.5	-25.0	-0.36	ZZ
MH7Z9Z		1,032.0	-45.3	-0.67	1,019.0	-42.5	-0.61	ZZ
N27PQL		1,084.0	6.7	0.10	1,058.0	-3.5	-0.05	ZZ
NHTR64		979.5	-97.8	-1.45	1,028.0	-33.5	-0.48	ZZ
NSD4Z8		1,060.2	-17.1	-0.25	1,028.3	-33.2	-0.47	ZZ
NWLS9R		1,131.3	54.0	0.80	1,153.1	91.6	1.30	ZZ
NWRZKZ	*	1,278.0	200.7	2.98	1,259.5	198.0	2.82	ZZ
P2HJG1		1,001.5	-75.8	-1.13	1,014.5	-47.0	-0.67	ZZ
PLW9XQ		981.2	-96.1	-1.43	944.2	-117.3	-1.67	ZZ
PS6BQY		1,084.5	7.2	0.11	1,077.0	15.5	0.22	ZZ
Q1GTU5		1,093.6	16.3	0.24	1,061.0	-0.5	-0.01	ZZ
QXD7X6		1,187.0	109.7	1.63	1,143.0	81.5	1.16	ZZ
RBF3SS		1,070.0	-7.3	-0.11	1,063.0	1.5	0.02	ZZ
RBW3XQ		1,113.0	35.7	0.53	1,069.6	8.1	0.12	ZZ
RH3UA6		1,153.1	75.8	1.13	1,150.2	88.7	1.26	ZZ
RULLG9		1,216.9	139.6	2.07	1,235.0	173.5	2.47	ZZ
RYNGL		1,196.6	119.3	1.77	1,200.2	138.7	1.97	ZZ
RYUGW		935.5	-141.8	-2.11	936.2	-125.3	-1.78	ZZ
S1HMA8		1,132.5	55.2	0.82	1,124.0	62.5	0.89	ZZ
S5P3XJ		992.5	-84.8	-1.26	948.5	-113.0	-1.61	ZZ
S94JNP		1,127.8	50.5	0.75	1,123.8	62.2	0.89	ZZ
SGCEZV		1,074.6	-2.7	-0.04	1,088.1	26.6	0.38	ZZ
SKUM39		1,032.5	-44.8	-0.67	1,065.5	4.0	0.06	ZZ
SLFVUR	*	1,140.5	63.2	0.94	1,020.5	-41.0	-0.58	ZZ
TW8TZP		1,123.3	46.0	0.68	1,080.5	19.0	0.27	ZZ
TZ1P13		1,034.5	-42.8	-0.64	1,096.5	35.0	0.50	ZZ
U1MVG5	X	1,349.0	271.7	4.04	1,225.5	164.0	2.34	ZZ
UDHTZJ		1,187.7	110.4	1.64	1,155.2	93.7	1.33	ZZ
V9ZE43		1,065.0	-12.3	-0.18	1,050.0	-11.5	-0.16	ZZ
VA5QFR		1,011.0	-66.3	-0.99	1,045.5	-16.0	-0.23	ZZ
VEZGK5	*	1,108.3	31.0	0.46	1,190.0	128.5	1.83	ZZ
WRETGC		1,121.5	44.2	0.66	1,094.2	32.7	0.47	ZZ
YE7PEM		1,015.0	-62.3	-0.93	1,027.5	-34.0	-0.48	ZZ

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YKSZ1B		1,094.0	16.7	0.25	1,054.0	-7.5	-0.11	ZZ
YPEHSM		1,090.0	12.7	0.19	1,113.9	52.4	0.75	ZZ
YSP8BQ		986.3	-91.0	-1.35	1,059.5	-2.0	-0.03	ZZ
YSZCG1		1,105.0	27.7	0.41	1,023.5	-38.0	-0.54	ZZ
ZDE2P4		1,029.5	-47.8	-0.71	1,026.0	-35.5	-0.51	ZZ
ZGUPYQ		1,062.0	-15.3	-0.23	1,055.0	-6.5	-0.09	ZZ
ZQW8TQ		1,027.0	-50.3	-0.75	997.0	-64.5	-0.92	ZZ

Grand Means		Summary Statistics	
	1,077.30 psi		1,061.50 psi
Std Dev Btwn Labs			70.23 psi
	67.27 psi	Statistics based on 106 of 112 reporting participants	

Grand Means		Summary Statistics in SI Units	
	7.4276 MPa		7.32 MPa
Std Dev Btwn Labs			0.48 MPa
	0.4638 MPa	Statistics based on 106 of 112 reporting participants	

Samples D61-D62: Polyisoprene compound, batch #1 & D63-D64: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #607

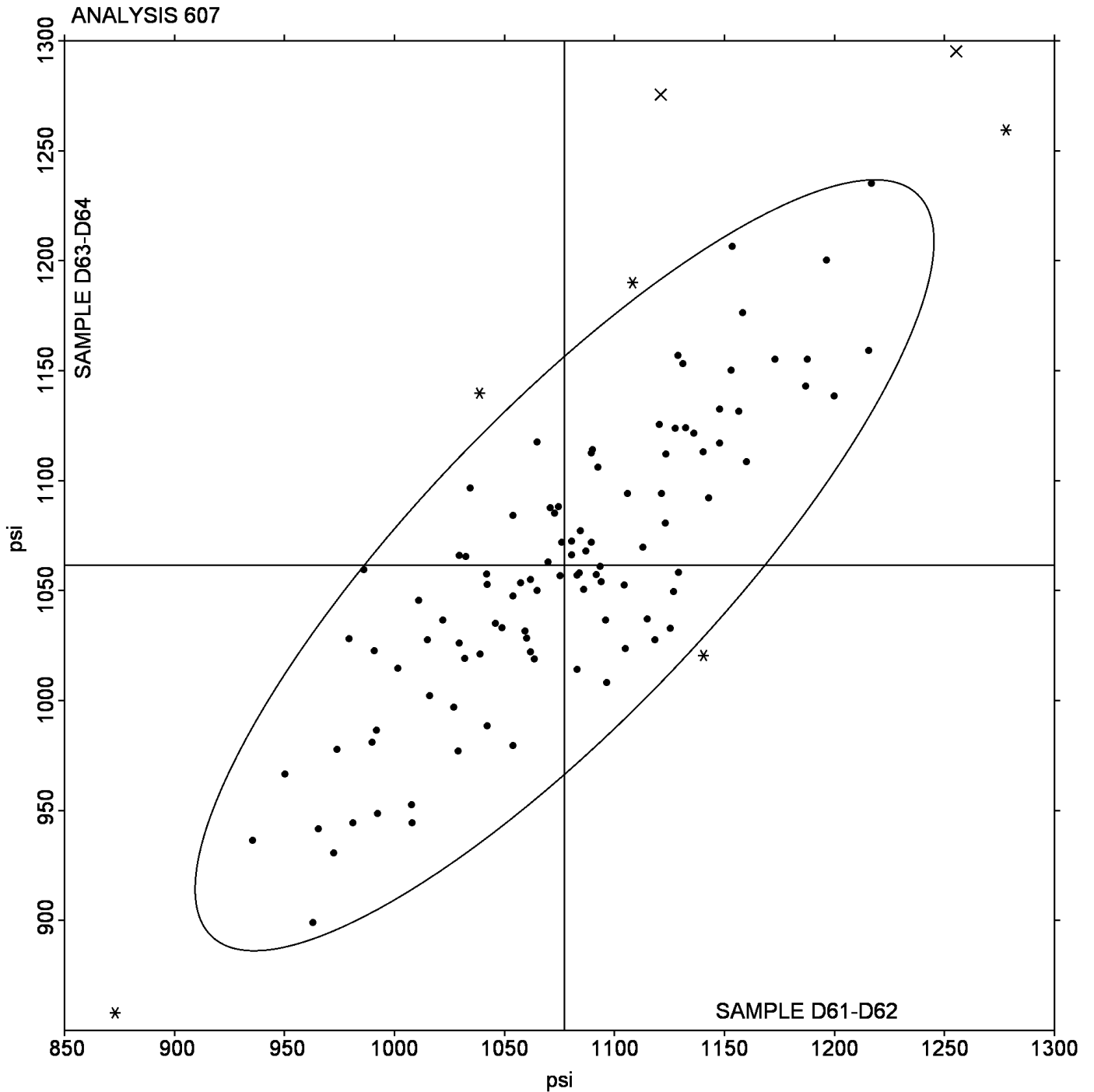
- 1AYE2G (X) - Inconsistency in testing between Sample sets. Data for Sample set D63-D64 are high.
- 38AEEY (X) - Data for all Samples are low.
- 9RU9KT (X) - Inconsistency in testing between Sample sets. Data for Sample D61 are low.
- B6AG2W (X) - Data for all Samples are high.
- BJ2623 (X) - Inconsistency in testing between Sample sets. Data for Sample set D63-D64 are high.
- U1MVGS (X) - Inconsistency in testing between Sample sets. Data for Sample set D61-D62 are high.

Analysis 607

Stress at 300% Elongation (psi)

Grand Mean Sample D61-D62 = 1,077.30 psi

Grand Mean Sample D63-D64 = 1,061.50 psi



Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
14WBP4		241.0	4.7	0.47	252.7	18.9	1.80	ZZ
182Q12		255.0	18.7	1.89	248.0	14.2	1.36	ZZ
1CBY6Z		235.5	-0.8	-0.08	244.5	10.7	1.02	ZZ
1H6NXH		240.0	3.8	0.38	238.6	4.8	0.46	ZZ
1NC9NN	X	282.0	45.7	4.61	273.0	39.2	3.74	ZZ
2ETS1R		224.7	-11.5	-1.16	215.2	-18.6	-1.77	ZZ
2QFMM1		237.5	1.2	0.12	237.1	3.3	0.32	ZZ
2ZRS1P		224.0	-12.3	-1.24	230.5	-3.3	-0.31	ZZ
34SB8F		246.0	9.7	0.98	236.5	2.7	0.26	ZZ
39D17X	*	260.2	23.9	2.41	262.0	28.2	2.69	ZZ
3QBAPG		238.0	1.7	0.17	240.0	6.2	0.59	ZZ
3QD2RK		228.5	-7.8	-0.78	226.5	-7.3	-0.69	ZZ
443RV1		241.5	5.2	0.53	237.5	3.7	0.36	ZZ
4PBQDP		227.5	-8.8	-0.89	230.0	-3.8	-0.36	ZZ
51KXGS		235.0	-1.3	-0.13	236.0	2.2	0.21	ZZ
57XG8K		221.2	-15.1	-1.52	220.7	-13.1	-1.24	ZZ
6QLETJ		233.5	-2.8	-0.28	237.5	3.7	0.36	ZZ
79K7TU		241.0	4.7	0.47	235.5	1.7	0.17	ZZ
857K3B		247.3	11.0	1.11	235.7	1.9	0.18	ZZ
85DSDK		230.0	-6.3	-0.63	219.0	-14.8	-1.40	ZZ
8KVDBV		232.5	-3.8	-0.38	242.5	8.7	0.83	ZZ
8L227M		240.5	4.2	0.42	241.0	7.2	0.69	ZZ
8N5PNY		232.7	-3.6	-0.36	226.0	-7.8	-0.74	ZZ
8RGUVD		240.8	4.5	0.46	244.5	10.7	1.02	ZZ
8ZHXFJ		240.0	3.7	0.37	245.0	11.2	1.07	ZZ
95VJ5Z		234.5	-1.8	-0.18	236.5	2.7	0.26	ZZ
9GXRGS		234.9	-1.4	-0.14	232.7	-1.1	-0.10	ZZ
A3DDX5		232.1	-4.2	-0.43	232.1	-1.7	-0.16	ZZ
A6MJMQ		245.0	8.7	0.88	228.5	-5.3	-0.50	ZZ
A6Y9JN		241.0	4.7	0.47	237.5	3.7	0.36	ZZ
AAA56Y	X	280.9	44.6	4.50	273.6	39.8	3.79	ZZ
AJ3FHE		237.0	0.7	0.07	234.5	0.7	0.07	ZZ
AUZRMF		231.5	-4.8	-0.48	235.5	1.7	0.17	ZZ
AYR39K	*	261.5	25.2	2.54	261.5	27.7	2.64	ZZ
B1LV6G		260.5	24.2	2.44	256.4	22.7	2.16	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BLB5BP	X	199.1	-37.2	-3.74	177.8	-56.0	-5.33	ZZ
C8N24H		223.4	-12.9	-1.30	214.7	-19.1	-1.82	ZZ
CX6MVN		246.5	10.2	1.03	231.5	-2.3	-0.21	ZZ
D12FKC	X	196.5	-39.8	-4.01	192.5	-41.3	-3.93	ZZ
DULF8R		229.5	-6.8	-0.68	230.0	-3.8	-0.36	ZZ
EFQ8B4		243.5	7.2	0.73	238.5	4.7	0.45	ZZ
EHPNJ1		235.0	-1.3	-0.13	233.5	-0.3	-0.02	ZZ
ERM4B7		212.5	-23.8	-2.40	211.5	-22.3	-2.12	ZZ
FF8DN1		235.5	-0.8	-0.08	224.5	-9.3	-0.88	ZZ
FJNZ5L		253.0	16.7	1.68	257.5	23.7	2.26	ZZ
FKVE32		238.0	1.7	0.17	238.0	4.2	0.40	ZZ
FPEBWB		229.0	-7.3	-0.73	229.0	-4.8	-0.45	ZZ
G6YDJR		245.7	9.4	0.95	241.6	7.9	0.75	ZZ
GGL7ZU		231.5	-4.8	-0.48	238.5	4.7	0.45	ZZ
GMA6PN		243.4	7.1	0.72	243.5	9.8	0.93	ZZ
H1K71C		235.7	-0.6	-0.06	229.9	-3.9	-0.37	ZZ
H5BG3J		229.5	-6.8	-0.68	230.0	-3.8	-0.36	ZZ
H6TAGZ		240.5	4.2	0.42	235.0	1.2	0.12	ZZ
H9R4SW		228.5	-7.8	-0.78	224.0	-9.8	-0.93	ZZ
HA9TK3		239.3	3.0	0.31	237.1	3.4	0.32	ZZ
HN39MA	X	229.0	-7.3	-0.73	250.0	16.2	1.55	ZZ
HZS4Q4		228.5	-7.8	-0.78	225.5	-8.3	-0.79	ZZ
HZZK8G	X	229.5	-6.8	-0.68	202.5	-31.3	-2.97	ZZ
J9UPQA		228.5	-7.8	-0.78	236.0	2.2	0.21	ZZ
JFDZJT		223.5	-12.8	-1.29	213.0	-20.8	-1.97	ZZ
JJKPK8		227.3	-8.9	-0.90	226.6	-7.2	-0.69	ZZ
JQNB19		245.0	8.7	0.88	241.0	7.2	0.69	ZZ
K2PEHW		241.1	4.8	0.48	224.7	-9.0	-0.86	ZZ
KE1PDL		241.5	5.2	0.52	225.5	-8.2	-0.78	ZZ
KL4QF1	X	325.0	88.7	8.94	297.5	63.7	6.07	ZZ
KNREM		229.5	-6.8	-0.68	223.5	-10.3	-0.98	ZZ
L4UBJR		247.0	10.7	1.08	237.5	3.7	0.36	ZZ
L7L2F4		246.0	9.7	0.98	247.5	13.7	1.31	ZZ
LBQF4E		231.3	-5.0	-0.50	234.2	0.5	0.05	ZZ
MFSADF	X	190.5	-45.8	-4.61	319.0	85.2	8.11	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MU42J8		227.3	-9.0	-0.91	223.3	-10.5	-0.99	ZZ
NCL5D1		221.9	-14.4	-1.45	218.3	-15.5	-1.47	ZZ
NEUCLZ	*	224.8	-11.5	-1.16	237.9	4.1	0.39	ZZ
NNNA3D		217.0	-19.3	-1.94	217.5	-16.3	-1.55	ZZ
NY3P3P		243.5	7.2	0.73	242.0	8.2	0.79	ZZ
NZPKEV		225.0	-11.3	-1.14	227.5	-6.3	-0.59	ZZ
PGXY2Q		218.3	-18.0	-1.81	211.8	-22.0	-2.09	ZZ
PRJR28		240.0	3.8	0.38	242.2	8.5	0.81	ZZ
PUB3FR	*	243.5	7.2	0.73	225.0	-8.8	-0.83	ZZ
Q7KZ98		236.4	0.1	0.01	232.8	-1.0	-0.09	ZZ
QB8PFY		235.5	-0.8	-0.08	240.5	6.7	0.64	ZZ
R9PZ3R		251.0	14.7	1.48	243.8	10.0	0.95	ZZ
RLC33X		230.5	-5.8	-0.58	231.9	-1.9	-0.18	ZZ
RM4BRS		237.0	0.7	0.07	226.0	-7.8	-0.74	ZZ
RS9GGL		247.0	10.7	1.08	246.0	12.2	1.16	ZZ
RVJY8N	X	241.5	5.2	0.53	263.5	29.7	2.83	ZZ
RWLJA4		244.0	7.7	0.78	244.5	10.7	1.02	ZZ
S4Z6V3		228.1	-8.2	-0.83	223.6	-10.2	-0.97	ZZ
SEDYWC	X	276.5	40.2	4.05	274.5	40.7	3.88	ZZ
TQEGD7		247.0	10.7	1.08	234.5	0.7	0.07	ZZ
U56QXR		230.6	-5.7	-0.57	229.9	-3.9	-0.37	ZZ
U7ZS66	X	259.6	23.3	2.35	270.5	36.7	3.50	ZZ
U99XJU	X	279.9	43.6	4.40	287.9	54.2	5.15	ZZ
UC79A1		242.0	5.7	0.58	235.0	1.2	0.12	ZZ
UKJ1MY	X	272.5	36.2	3.65	268.5	34.7	3.31	ZZ
VBJ2CA		226.5	-9.8	-0.99	224.0	-9.8	-0.93	ZZ
VJHJRN		229.0	-7.3	-0.73	227.5	-6.3	-0.59	ZZ
VUYFGD	X	297.5	61.2	6.17	281.5	47.7	4.54	ZZ
W4NWA		223.0	-13.3	-1.34	222.0	-11.8	-1.12	ZZ
WFWA5T		250.5	14.2	1.43	247.5	13.7	1.31	ZZ
WLVTW		241.0	4.7	0.47	225.0	-8.8	-0.83	ZZ
WR9GV2		258.0	21.7	2.19	249.0	15.2	1.45	ZZ
WX8489		215.5	-20.8	-2.09	218.5	-15.3	-1.45	ZZ
X6ZTMP		234.5	-1.8	-0.18	231.5	-2.3	-0.21	ZZ
X8RTW6		240.0	3.7	0.37	233.0	-0.8	-0.07	ZZ

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
Y45MGH		227.5	-8.8	-0.89	222.0	-11.8	-1.12	ZZ
Y86LEF		232.5	-3.8	-0.38	231.0	-2.8	-0.26	ZZ
YARGR		237.0	0.7	0.07	236.0	2.2	0.21	ZZ
YJN7HP		242.9	6.7	0.67	248.0	14.3	1.36	ZZ
ZE78PG		234.2	-2.1	-0.21	230.4	-3.3	-0.32	ZZ

Summary Statistics

Grand Means

236.29 psi

233.75 psi

Std Dev Btwn Labs

9.92 psi

10.51 psi

Statistics based on 96 of 110 reporting participants

Summary Statistics in SI Units

Grand Means

1.6291 MPa

1.61 MPa

Std Dev Btwn Labs

0.0684 MPa

0.07 MPa

Statistics based on 96 of 110 reporting participants

Samples D61-D62: Polyisoprene compound, batch #1 & D63-D64: Polyisoprene compound, batch #2

Analysis 608

Stress at 100% Elongation (psi)

Comments on assigned Data Flags for Test #608

1NC9NN (X) - Data for all Samples are high.

AAA56Y (X) - Data for all Samples are high.

BLB5BP (X) - Data for all Samples are low.

D12FKC (X) - Data for all Samples are low.

HN39MA (X) - Inconsistency in testing between Sample sets.

HZZK8G (X) - Inconsistency in testing between Sample sets. Data for Sample set D63-D64 are low.

KL4QF1 (X) - Data for all Samples are high.

MFSADF (X) - Inconsistency in testing between Sample sets. Data for Sample D61 are low, and Data for Sample D62-D64 are high.

RVJY8N (X) - Inconsistency in testing between Sample sets. Data for Sample set D63-D64 are high.

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

U7ZS66 (X) - Inconsistency in testing between Sample sets. Data for Sample set D63-D64 are high.

U99XJU (X) - Data for all Samples are high.

UKJ1MY (X) - Data for all Samples are high. Also inconsistent in testing within both Sample sets.

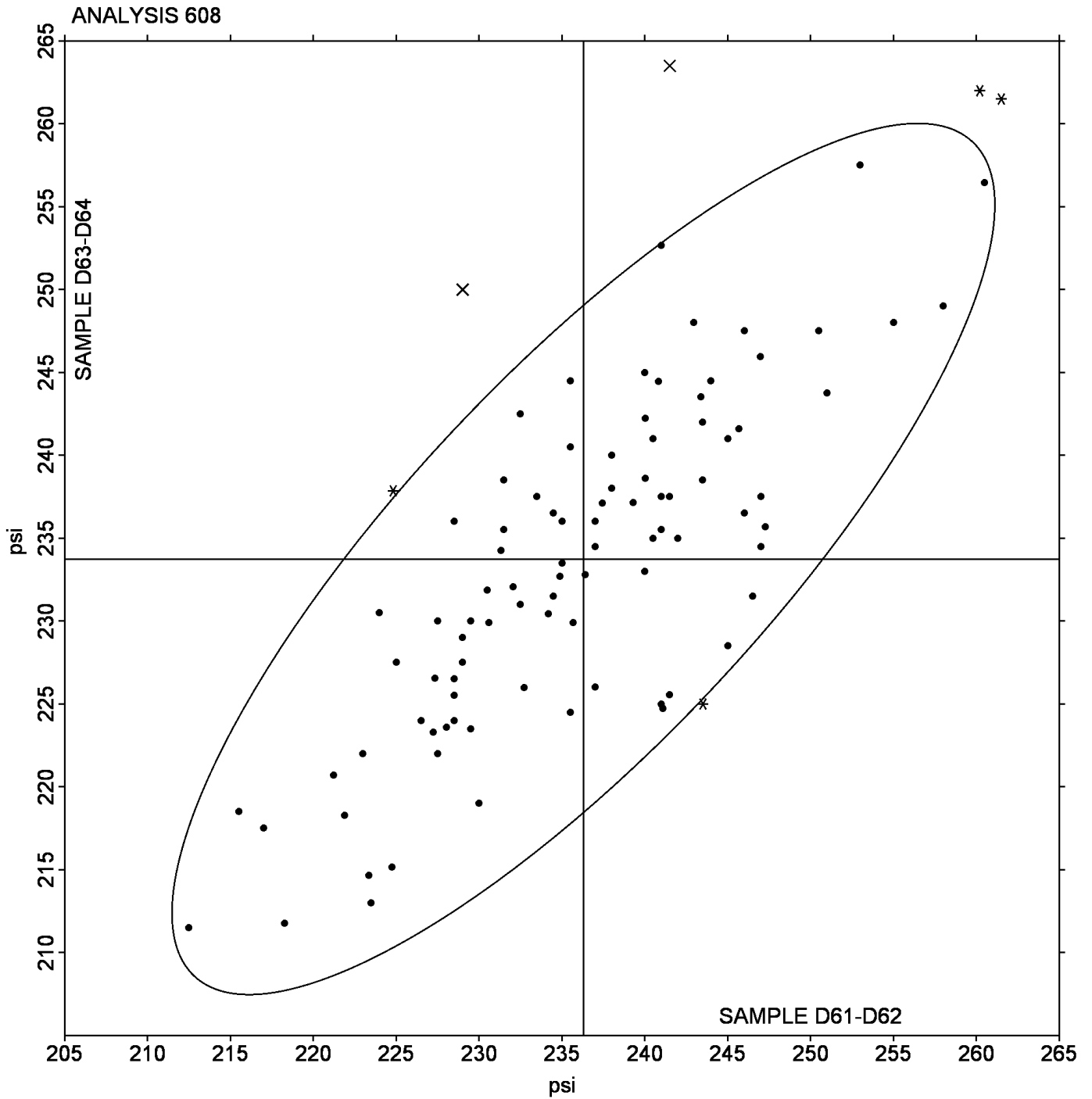
VUYFGD (X) - Data for all Samples are high.

Analysis 608

Stress at 100% Elongation (psi)

Grand Mean Sample D61-D62 = 236.29 psi

Grand Mean Sample D63-D64 = 233.75 psi



Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
19BMAZ		53.00	0.76	0.45	52.00	-0.11	-0.07	ZZ
19SX9S		51.70	-0.54	-0.31	51.30	-0.81	-0.47	ZZ
1AMPYJ		53.15	0.91	0.53	53.20	1.09	0.63	ZZ
1NLQ6D		51.40	-0.84	-0.49	50.25	-1.86	-1.08	ZZ
1RGZ23		56.00	3.76	2.20	56.00	3.89	2.25	ZZ
1UGBQ3		51.50	-0.74	-0.43	52.50	0.39	0.22	ZZ
29PT1M		51.50	-0.74	-0.43	52.00	-0.11	-0.07	ZZ
2AV3QK		51.05	-1.19	-0.69	51.10	-1.01	-0.59	ZZ
2D49JD		50.55	-1.69	-0.98	49.55	-2.56	-1.48	ZZ
2MJT4B		54.00	1.76	1.03	53.60	1.49	0.86	ZZ
2P5PFJ		54.50	2.26	1.32	55.00	2.89	1.67	ZZ
3874AE		55.00	2.76	1.61	54.50	2.39	1.38	ZZ
3ATSEE		51.50	-0.74	-0.43	51.50	-0.61	-0.35	ZZ
3PPR1Q		51.30	-0.94	-0.55	51.45	-0.66	-0.38	ZZ
3Y9L7X	X	49.00	-3.24	-1.89	50.50	-1.61	-0.93	ZZ
4BPKES		53.30	1.06	0.62	52.90	0.79	0.46	ZZ
4EL5WH		52.00	-0.24	-0.14	51.00	-1.11	-0.64	ZZ
63QHDD		55.00	2.76	1.61	54.50	2.39	1.38	ZZ
677TFN		54.00	1.76	1.03	54.00	1.89	1.09	ZZ
6JN7M2		55.00	2.76	1.61	55.00	2.89	1.67	ZZ
6KRKTW		53.00	0.76	0.45	53.00	0.89	0.51	ZZ
6ZIHCA		51.50	-0.74	-0.43	51.50	-0.61	-0.35	ZZ
6Z7LEG	X	48.00	-4.24	-2.47	47.00	-5.11	-2.96	ZZ
73JV34		50.00	-2.24	-1.31	50.00	-2.11	-1.22	ZZ
78H5JB		50.00	-2.24	-1.31	50.20	-1.91	-1.11	ZZ
7CHQRM		50.50	-1.74	-1.01	50.50	-1.61	-0.93	ZZ
7LX7QN		51.50	-0.74	-0.43	50.50	-1.61	-0.93	ZZ
7U4RRD		54.50	2.26	1.32	54.50	2.39	1.38	ZZ
85A7H4		51.35	-0.89	-0.52	51.20	-0.91	-0.53	ZZ
8F5DD8		51.75	-0.49	-0.28	52.00	-0.11	-0.07	ZZ
8FEXS5	*	48.20	-4.04	-2.36	47.40	-4.71	-2.73	ZZ
98VB2Y		50.65	-1.59	-0.93	49.90	-2.21	-1.28	ZZ
9EG2NT		55.00	2.76	1.61	54.50	2.39	1.38	ZZ
9K39VZ		52.15	-0.09	-0.05	51.90	-0.21	-0.12	ZZ
9TLX5E		52.80	0.56	0.33	52.25	0.14	0.08	ZZ

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
A72AZL		53.50	1.26	0.74	53.50	1.39	0.80	ZZ
AASCD2		53.50	1.26	0.74	53.00	0.89	0.51	ZZ
ACD8RU		50.00	-2.24	-1.31	50.00	-2.11	-1.22	ZZ
APT358		53.00	0.76	0.45	53.00	0.89	0.51	ZZ
B16BLJ		54.40	2.16	1.26	54.05	1.94	1.12	ZZ
B2LK2Z		52.75	0.51	0.30	52.60	0.49	0.28	ZZ
BZJAU8		52.50	0.26	0.15	52.00	-0.11	-0.07	ZZ
C8NUM3		51.50	-0.74	-0.43	51.25	-0.86	-0.50	ZZ
CCR9T7		50.50	-1.74	-1.01	51.00	-1.11	-0.64	ZZ
CDA84B		52.15	-0.09	-0.05	51.70	-0.41	-0.24	ZZ
CGA6SJ		55.00	2.76	1.61	55.00	2.89	1.67	ZZ
CKM6NB		52.00	-0.24	-0.14	52.00	-0.11	-0.07	ZZ
CPBCRK		52.50	0.26	0.15	51.90	-0.21	-0.12	ZZ
CUF9Y1		53.50	1.26	0.74	53.05	0.94	0.54	ZZ
DA27LD		52.50	0.26	0.15	53.00	0.89	0.51	ZZ
DCGDJE		50.30	-1.94	-1.13	50.95	-1.16	-0.67	ZZ
ED3KZ3		50.00	-2.24	-1.31	50.00	-2.11	-1.22	ZZ
EHH1HV		51.50	-0.74	-0.43	52.00	-0.11	-0.07	ZZ
ENF4ME		51.50	-0.74	-0.43	51.00	-1.11	-0.64	ZZ
EPZPWX		53.50	1.26	0.74	54.00	1.89	1.09	ZZ
F4FV79		50.90	-1.34	-0.78	50.80	-1.31	-0.76	ZZ
F6XDHT		51.25	-0.99	-0.58	51.30	-0.81	-0.47	ZZ
FFYNWQ		54.00	1.76	1.03	53.00	0.89	0.51	ZZ
FQF49B		51.25	-0.99	-0.58	52.00	-0.11	-0.07	ZZ
FXXG8A		52.00	-0.24	-0.14	51.75	-0.36	-0.21	ZZ
G7T2XF		54.50	2.26	1.32	54.00	1.89	1.09	ZZ
GDSP9N		52.75	0.51	0.30	52.50	0.39	0.22	ZZ
H57N1J		51.90	-0.34	-0.20	51.90	-0.21	-0.12	ZZ
HAXGAJ		50.70	-1.54	-0.90	50.20	-1.91	-1.11	ZZ
HCY56G		52.10	-0.14	-0.08	51.70	-0.41	-0.24	ZZ
HLZSQL		49.00	-3.24	-1.89	48.50	-3.61	-2.09	ZZ
HPU4CZ	*	47.00	-5.24	-3.06	47.00	-5.11	-2.96	ZZ
HR3FU1		52.15	-0.09	-0.05	52.15	0.04	0.02	ZZ
HSUJJ2		51.50	-0.74	-0.43	51.50	-0.61	-0.35	ZZ
J9MSTS		51.50	-0.74	-0.43	52.00	-0.11	-0.07	ZZ

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
JRG243	*	50.00	-2.24	-1.31	51.00	-1.11	-0.64	ZZ
JUWS8Z		52.95	0.71	0.42	52.70	0.59	0.34	ZZ
JUXPH8		54.50	2.26	1.32	54.00	1.89	1.09	ZZ
L39MY5		54.75	2.51	1.47	54.50	2.39	1.38	ZZ
LC81N4		49.85	-2.39	-1.39	49.90	-2.21	-1.28	ZZ
LNZTJU		52.50	0.26	0.15	52.50	0.39	0.22	ZZ
LPFY96		56.00	3.76	2.20	55.50	3.39	1.96	ZZ
LR16Y7	X	59.00	6.76	3.95	59.00	6.89	3.98	ZZ
MD552H		52.00	-0.24	-0.14	52.00	-0.11	-0.07	ZZ
MS3UNA		48.00	-4.24	-2.47	48.00	-4.11	-2.38	ZZ
N1K1LD		53.85	1.61	0.94	53.40	1.29	0.74	ZZ
N1UWVJ	X	52.50	0.26	0.15	50.50	-1.61	-0.93	ZZ
N3T1U1		53.05	0.81	0.47	52.85	0.74	0.43	ZZ
NWPENJ		52.35	0.11	0.07	52.10	-0.01	-0.01	ZZ
P1E2S4		54.80	2.56	1.50	54.85	2.74	1.58	ZZ
P9E6FD		51.25	-0.99	-0.58	52.00	-0.11	-0.07	ZZ
PJMUJB		52.50	0.26	0.15	53.00	0.89	0.51	ZZ
PNL84F		53.00	0.76	0.45	53.00	0.89	0.51	ZZ
QNUVPD		53.00	0.76	0.45	53.50	1.39	0.80	ZZ
QV6WX		53.50	1.26	0.74	52.25	0.14	0.08	ZZ
RUUEM3		52.20	-0.04	-0.02	51.95	-0.16	-0.09	ZZ
S5Y73F		53.00	0.76	0.45	53.00	0.89	0.51	ZZ
S86HEB		53.15	0.91	0.53	53.40	1.29	0.74	ZZ
SY369W		54.00	1.76	1.03	54.50	2.39	1.38	ZZ
TBC19R		52.55	0.31	0.18	52.90	0.79	0.46	ZZ
TBQR6P		52.55	0.31	0.18	51.90	-0.21	-0.12	ZZ
TCYS9X		53.50	1.26	0.74	54.00	1.89	1.09	ZZ
TNYHTJ		50.25	-1.99	-1.16	50.25	-1.86	-1.08	ZZ
TR1EAB		52.80	0.56	0.33	52.80	0.69	0.40	ZZ
TWEW3E		51.30	-0.94	-0.55	51.45	-0.66	-0.38	ZZ
TZNDXX		50.00	-2.24	-1.31	50.00	-2.11	-1.22	ZZ
UPN6KY		52.00	-0.24	-0.14	52.00	-0.11	-0.07	ZZ
UT1TF4		55.00	2.76	1.61	55.00	2.89	1.67	ZZ
UXTA88	X	49.60	-2.64	-1.54	47.85	-4.26	-2.47	ZZ
VH555Z		53.50	1.26	0.74	53.00	0.89	0.51	ZZ

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D61-D62			Sample D63-D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VKD8ZA		50.00	-2.24	-1.31	50.50	-1.61	-0.93	ZZ
VQEKKL		52.00	-0.24	-0.14	52.00	-0.11	-0.07	ZZ
VZ2L1V		49.50	-2.74	-1.60	49.00	-3.11	-1.80	ZZ
WS8H4D		52.80	0.56	0.33	52.75	0.64	0.37	ZZ
XB9YD4	X	34.10	-18.14	-10.59	51.75	-0.36	-0.21	ZZ
XDKU96		51.50	-0.74	-0.43	52.00	-0.11	-0.07	ZZ
XE6PDN		52.50	0.26	0.15	51.50	-0.61	-0.35	ZZ
XL5QEG	X	46.00	-6.24	-3.64	47.50	-4.61	-2.67	ZZ
XMN48R		50.70	-1.54	-0.90	50.20	-1.91	-1.11	ZZ
XTLQ47		50.50	-1.74	-1.01	50.00	-2.11	-1.22	ZZ
Y1SMXX		52.00	-0.24	-0.14	52.50	0.39	0.22	ZZ
YDHBW4		53.50	1.26	0.74	53.00	0.89	0.51	ZZ
YVXTM		50.00	-2.24	-1.31	49.00	-3.11	-1.80	ZZ
ZS9HGH		55.00	2.76	1.61	55.00	2.89	1.67	ZZ

Grand Means		Summary Statistics	
52.238	Type A	52.113	Type A
Std Dev Btwn Labs			
1.713	Type A	1.729	Type A
Statistics based on 112 of 119 reporting participants			

Samples D61-D62: Polyisoprene compound, batch #1 & D63-D64: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #620

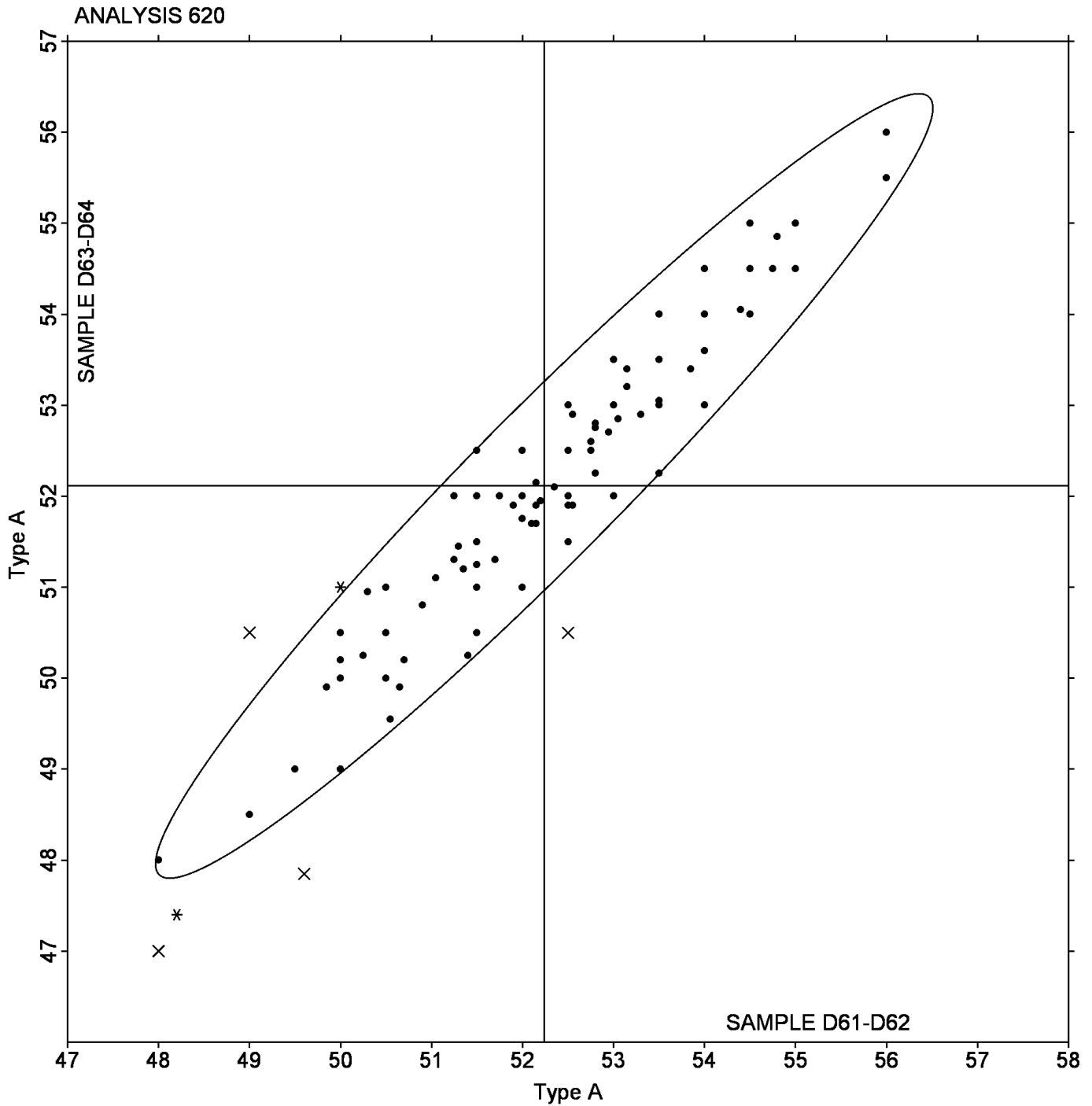
- 3Y9L7X (X) - Inconsistency in testing between Sample sets.
- 6Z7LEG (X) - Inconsistency in testing between Sample sets. Data for Sample set D63-D64 are low.
- LR16Y7 (X) - Data for all Samples are high.
- N1UWVJ (X) - Inconsistency in testing between Sample sets.
- UXTA88 (X) - Inconsistency in testing between Sample sets.
- XB9YD4 (X) - inconsistency in testing between Sample sets. Data for Sample set D61-D62 are low.
- XL5QEG (X) - Inconsistency in testing between Sample sets. Data for Sample set D61-D62 are low.

Analysis 620

Hardness (Shore A/Type A)

Grand Mean Sample D61-D62 = 52.238 Type A

Grand Mean Sample D63-D64 = 52.113 Type A



Analysis 630

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

WebCode	Data Flag	Sample D61-D62			Sample M61-M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1DMR2M		3,076.0	-257.2	-2.02	2,896.5	-138.3	-0.64	ZZ
1M49KE		3,526.0	192.8	1.51	2,795.5	-239.3	-1.10	ZZ
2FBFVS		3,313.5	-19.7	-0.15	3,325.1	290.2	1.34	ZZ
2NQ5WL		3,359.0	25.8	0.20	2,966.0	-68.8	-0.32	ZZ
31FBCM		3,300.5	-32.7	-0.26	3,026.0	-8.8	-0.04	ZZ
3CQZ67		3,357.5	24.3	0.19	3,186.9	152.1	0.70	ZZ
3QAJK9	X	3,846.5	513.3	4.02	3,497.0	462.2	2.13	ZZ
3T4PMC		3,366.4	33.1	0.26	3,168.4	133.5	0.62	ZZ
4465J9		3,198.1	-135.1	-1.06	2,974.7	-60.1	-0.28	ZZ
6QF1BP		3,336.5	3.3	0.03	3,026.5	-8.3	-0.04	ZZ
7TJ6N2		3,281.5	-51.7	-0.41	2,538.2	-496.6	-2.29	ZZ
83TUBL		3,478.5	145.3	1.14	2,627.5	-407.3	-1.88	ZZ
8MPLVC	X	3,051.5	-281.7	-2.21	1,615.5	-1,419.3	-6.54	ZZ
8Y4HYA		3,449.4	116.1	0.91	3,176.3	141.4	0.65	ZZ
9L3H9W		3,195.9	-137.3	-1.08	2,982.5	-52.3	-0.24	ZZ
AYT2GU		3,352.5	19.3	0.15	3,180.0	145.2	0.67	ZZ
BQKDG		3,239.5	-93.7	-0.74	3,168.5	133.7	0.62	ZZ
BYCQQ7		3,494.0	160.8	1.26	3,021.0	-13.8	-0.06	ZZ
CCS8X2		3,471.0	137.8	1.08	3,058.5	23.7	0.11	ZZ
CPR1H1		3,186.5	-146.7	-1.15	3,098.0	63.2	0.29	ZZ
CTT1KA		3,482.4	149.1	1.17	3,049.4	14.6	0.07	ZZ
EL3TVW		3,261.0	-72.2	-0.57	3,181.5	146.7	0.68	ZZ
H2PAGW	*	3,337.7	4.5	0.04	2,436.3	-598.6	-2.76	ZZ
HF1Z3B	X	3,517.2	184.0	1.44	174.0	-2,860.8	-13.18	ZZ
JM6LSY		3,488.5	155.3	1.22	3,302.5	267.7	1.23	ZZ
M8QD7R		3,141.2	-192.0	-1.51	3,058.7	23.9	0.11	ZZ
P9X851		3,468.0	134.8	1.06	3,327.5	292.7	1.35	ZZ
PCUW6F		3,034.0	-299.2	-2.35	2,799.5	-235.3	-1.08	ZZ
PKC7RW		3,363.0	29.7	0.23	3,256.5	221.7	1.02	ZZ
PQHZKT		3,338.0	4.8	0.04	3,034.0	-0.8	0.00	ZZ
PR2RUB		3,427.5	94.3	0.74	2,899.5	-135.3	-0.62	ZZ
STHG66		3,265.9	-67.3	-0.53	3,018.6	-16.2	-0.07	ZZ
T3Y62B		3,581.0	247.8	1.94	3,252.0	217.2	1.00	ZZ
TE7WP6		3,438.1	104.9	0.82	3,174.2	139.4	0.64	ZZ
U62P64		3,380.0	46.8	0.37	3,072.5	37.7	0.17	ZZ

Analysis 630

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

WebCode	Data Flag	Sample D61-D62			Sample M61-M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
U9E2G7		3,329.0	-4.2	-0.03	3,373.0	338.2	1.56	ZZ
VP8Z69		3,155.3	-177.9	-1.40	3,077.4	42.6	0.20	ZZ
W42GQV		3,241.0	-92.2	-0.72	2,624.0	-410.8	-1.89	ZZ
WCB7EM		3,239.0	-94.2	-0.74	2,977.5	-57.3	-0.26	ZZ
WYMIQ		3,491.5	158.3	1.24	3,197.5	162.7	0.75	ZZ
XFTX64		3,261.9	-71.3	-0.56	2,883.4	-151.5	-0.70	ZZ
XKXUCJ		3,389.0	55.8	0.44	3,284.5	249.7	1.15	ZZ
ZJ6CT1		3,234.2	-99.1	-0.78	2,897.0	-137.8	-0.64	ZZ

Grand Means		Summary Statistics	
	3,333.24 psi		3,034.83 psi
Std Dev Btwn Labs			217.03 psi
	127.52 psi	Statistics based on 40 of 43 reporting participants	

Grand Means		Summary Statistics in SI Units	
	22.982 MPa		20.92 MPa
Std Dev Btwn Labs			1.50 MPa
	0.879 MPa	Statistics based on 40 of 43 reporting participants	

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #630

3QAJK9 (X) - Inconsistency in testing between Sample sets. Data for Sample set D61-D62 are high.

8MPLVC (X) - Inconsistency in testing between Sample sets. Data for Sample set M61-M62 are low.

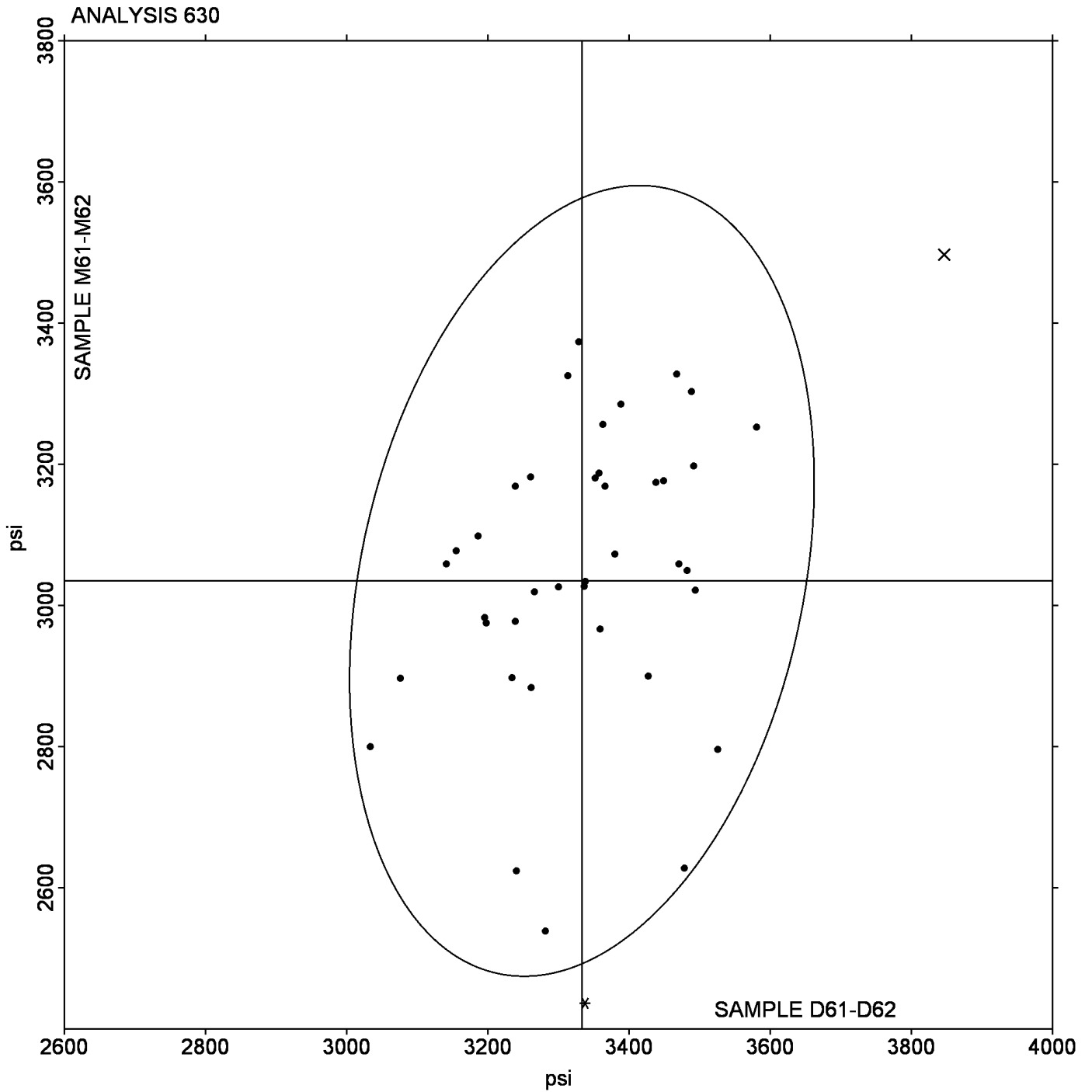
HF1Z3B (X) - Inconsistency in testing between Sample sets. Extreme data for Sample set M61-M62.

Analysis 630

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

Grand Mean Sample D61-D62 = 3,333.24 psi

Grand Mean Sample M61-M62 = 3,034.83 psi



Analysis 631

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

WebCode	Data Flag	Sample D61-D62			Sample M61-M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2KANP2		583.5	-8.5	-0.32	577.0	-15.7	-0.79	ZZ
33MQ1F		549.0	-43.0	-1.63	566.5	-26.2	-1.32	ZZ
3PD6TV		574.1	-17.9	-0.68	573.0	-19.8	-1.00	ZZ
43ND5H		645.2	53.2	2.01	635.4	42.7	2.15	ZZ
4XKC8A		596.0	4.0	0.15	583.2	-9.6	-0.48	ZZ
4XMX4Q		580.0	-12.0	-0.45	579.5	-13.2	-0.67	ZZ
75TRR2		550.5	-41.5	-1.57	578.5	-14.2	-0.72	ZZ
8ELBWT	*	639.0	47.0	1.78	655.0	62.3	3.14	ZZ
8GQZD4		603.0	11.0	0.42	604.0	11.3	0.57	ZZ
9ELG1U		612.5	20.5	0.78	612.8	20.0	1.01	ZZ
BWAL87		616.0	24.0	0.91	604.0	11.3	0.57	ZZ
E9477Y		556.5	-35.5	-1.34	560.5	-32.2	-1.62	ZZ
EM8KDY		612.5	20.5	0.78	618.5	25.8	1.30	ZZ
F8GEE1		623.0	31.0	1.17	616.0	23.3	1.17	ZZ
GDYB6E		597.0	5.0	0.19	599.5	6.8	0.34	ZZ
GKL2SA		561.5	-30.5	-1.15	578.5	-14.2	-0.72	ZZ
HETK8B		610.5	18.5	0.70	570.5	-22.2	-1.12	ZZ
HSD8VV		574.9	-17.1	-0.65	616.8	24.1	1.22	ZZ
J4XBDL		574.5	-17.5	-0.66	606.3	13.6	0.69	ZZ
JCRFHV		584.4	-7.6	-0.29	591.0	-1.7	-0.09	ZZ
JGQU6K		552.0	-40.0	-1.51	565.0	-27.7	-1.40	ZZ
JYPYHV		586.0	-6.0	-0.23	582.5	-10.2	-0.51	ZZ
K89K7Q	X	513.2	-78.7	-2.98	490.5	-102.2	-5.15	ZZ
LLD4EU		612.0	20.0	0.76	597.0	4.3	0.22	ZZ
M8BATH		569.2	-22.7	-0.86	598.0	5.3	0.27	ZZ
MPMLE4		587.5	-4.5	-0.17	582.5	-10.2	-0.51	ZZ
PW9ZFM		543.0	-49.0	-1.86	561.0	-31.7	-1.60	ZZ
Q11RY4	X	570.0	-22.0	-0.83	775.0	182.3	9.19	ZZ
Q1KJ57		600.5	8.5	0.32	592.5	-0.2	-0.01	ZZ
QBAB34		593.5	1.5	0.06	592.0	-0.7	-0.04	ZZ
QEL4JQ		623.0	31.0	1.17	598.0	5.3	0.27	ZZ
QG7ZVX		601.0	9.0	0.34	602.0	9.3	0.47	ZZ
QGECZS		569.0	-23.0	-0.87	598.0	5.3	0.27	ZZ
R6RDFU		617.7	25.7	0.97	600.5	7.8	0.39	ZZ
RLWXSD		618.0	26.0	0.99	593.5	0.8	0.04	ZZ

Analysis 631

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

WebCode	Data Flag	Sample D61-D62			Sample M61-M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
TWRTTR		625.0	33.0	1.25	600.0	7.3	0.37	ZZ
VCRLSY		551.5	-40.5	-1.53	569.0	-23.7	-1.20	ZZ
WVN8U		603.0	11.0	0.42	578.0	-14.7	-0.74	ZZ
XK1CG9		588.0	-4.0	-0.15	592.5	-0.2	-0.01	ZZ
XL4GDQ		620.0	28.0	1.06	603.5	10.8	0.54	ZZ
Y34LMJ		610.5	18.5	0.70	610.0	17.3	0.87	ZZ
ZDF3H2		559.9	-32.1	-1.22	578.3	-14.4	-0.72	ZZ
ZE7ZUQ		597.5	5.5	0.21	581.0	-11.7	-0.59	ZZ

Grand Means		Summary Statistics	
	591.98 percent		592.71 percent
Std Dev Btwn Labs			
	26.40 percent		19.83 percent
Statistics based on 41 of 43 reporting participants			

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #631

K89K7Q (X) - Data for all Samples are low.

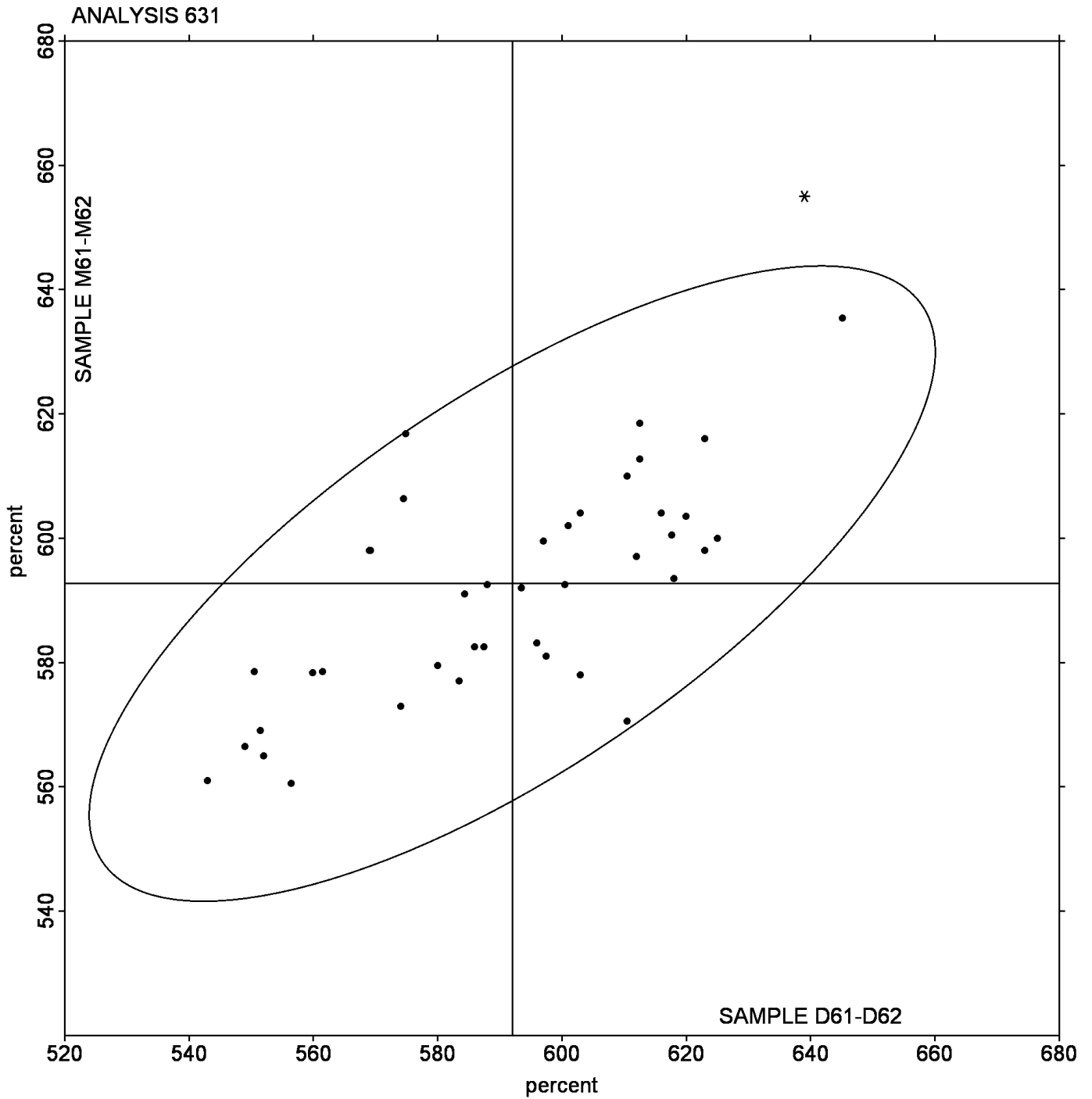
Q11RY4 (X) - Data for all Samples are high.

Analysis 631

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

Grand Mean Sample D61-D62 = 591.98 percent

Grand Mean Sample M61-M62 = 592.71 percent



Analysis 632

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

WebCode	Data Flag	Sample D61-D62			Sample M61-M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2SNNUD		1,140.5	56.7	0.89	1,017.0	63.0	0.75	ZZ
2T7XCK		981.2	-102.6	-1.61	928.2	-25.8	-0.31	ZZ
534Y67		1,089.7	5.9	0.09	904.0	-50.0	-0.60	ZZ
5397P8		1,121.0	37.2	0.58	999.0	45.0	0.54	ZZ
6839SL		1,070.0	-13.8	-0.22	1,021.5	67.5	0.81	ZZ
6YUR6F		1,096.0	12.2	0.19	1,066.5	112.5	1.34	ZZ
7KTKG4		1,196.6	112.8	1.77	830.3	-123.7	-1.48	ZZ
7WGJ77		1,123.3	39.4	0.62	1,019.0	65.0	0.78	ZZ
95BFFT		1,008.0	-75.8	-1.19	794.8	-159.2	-1.90	ZZ
9X98GS		1,215.7	131.9	2.07	1,071.2	117.1	1.40	ZZ
9Z62T9		950.4	-133.4	-2.10	868.8	-85.2	-1.02	ZZ
BF88AH		1,173.0	89.2	1.40	854.5	-99.5	-1.19	ZZ
BHMP1H		1,087.0	3.2	0.05	987.5	33.5	0.40	ZZ
BM43GA		1,106.0	22.2	0.35	933.0	-21.0	-0.25	ZZ
BMNSVP		1,029.5	-54.3	-0.85	850.0	-104.0	-1.24	ZZ
CGA7LJ	X	1,375.0	291.1	4.57	1,327.9	373.9	4.47	ZZ
DMWN8		1,108.3	24.4	0.38	1,104.3	150.2	1.79	ZZ
F1PWF4		1,054.0	-29.8	-0.47	899.5	-54.5	-0.65	ZZ
GJ5EZ4		1,042.3	-41.5	-0.65	967.3	13.2	0.16	ZZ
GZ2G1V		1,029.5	-54.3	-0.85	1,013.0	59.0	0.70	ZZ
H7D1RX		1,034.5	-49.3	-0.77	857.0	-97.0	-1.16	ZZ
HC99BC		1,054.0	-29.8	-0.47	956.0	2.0	0.02	ZZ
KLT9WE		1,132.5	48.7	0.76	1,025.0	71.0	0.85	ZZ
LUR2DZ		1,148.0	64.2	1.01	987.5	33.5	0.40	ZZ
LXQEPS		1,091.7	7.9	0.12	966.4	12.4	0.15	ZZ
LYPHRT		1,054.0	-29.8	-0.47	834.5	-119.5	-1.43	ZZ
MEB6M9		1,073.0	-10.8	-0.17	1,065.5	111.5	1.33	ZZ
PDR93W		1,113.0	29.2	0.46	1,025.5	71.5	0.85	ZZ
QD9F4K	*	1,187.7	103.9	1.63	778.6	-175.4	-2.10	ZZ
QDRHND		1,187.0	103.2	1.62	1,073.0	119.0	1.42	ZZ
QMCPCS		990.0	-93.8	-1.47	942.5	-11.5	-0.14	ZZ
R6F24Q	X	1,062.0	-21.8	-0.34	455.0	-499.0	-5.96	ZZ
R7QXLN		1,094.0	10.2	0.16	979.0	25.0	0.30	ZZ
SCLV6D		1,076.2	-7.6	-0.12	1,011.6	57.6	0.69	ZZ
SNAF3A		1,158.3	74.5	1.17	971.0	17.0	0.20	ZZ

**Rubber Interlaboratory Testing Program
Analysis 632**

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

WebCode	Data Flag	Sample D61-D62			Sample M61-M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
TSU69R		1,032.0	-51.8	-0.81	915.5	-38.5	-0.46	ZZ
TSXPDG		1,038.7	-45.2	-0.71	1,006.4	52.3	0.63	ZZ
U6F5B5		1,022.2	-61.6	-0.97	923.5	-30.5	-0.36	ZZ
W1MCB		1,065.0	-18.8	-0.30	975.0	21.0	0.25	ZZ
WQ9LRB		1,086.0	2.2	0.03	919.0	-35.0	-0.42	ZZ
YFKLH5		1,118.5	34.7	0.54	804.6	-149.4	-1.78	ZZ
ZHR5CK		974.0	-109.8	-1.72	1,014.0	60.0	0.72	ZZ

Summary Statistics	
Grand Means	
1,083.80 psi	954.01 psi
Std Dev Btwn Labs	
63.67 psi	83.71 psi
Statistics based on 40 of 42 reporting participants	

Summary Statistics in SI Units	
Grand Means	
7.4725 MPa	6.58 MPa
Std Dev Btwn Labs	
0.4390 MPa	0.58 MPa
Statistics based on 40 of 42 reporting participants	

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #632

CGA7LJ (X) - Data for all Samples are high.

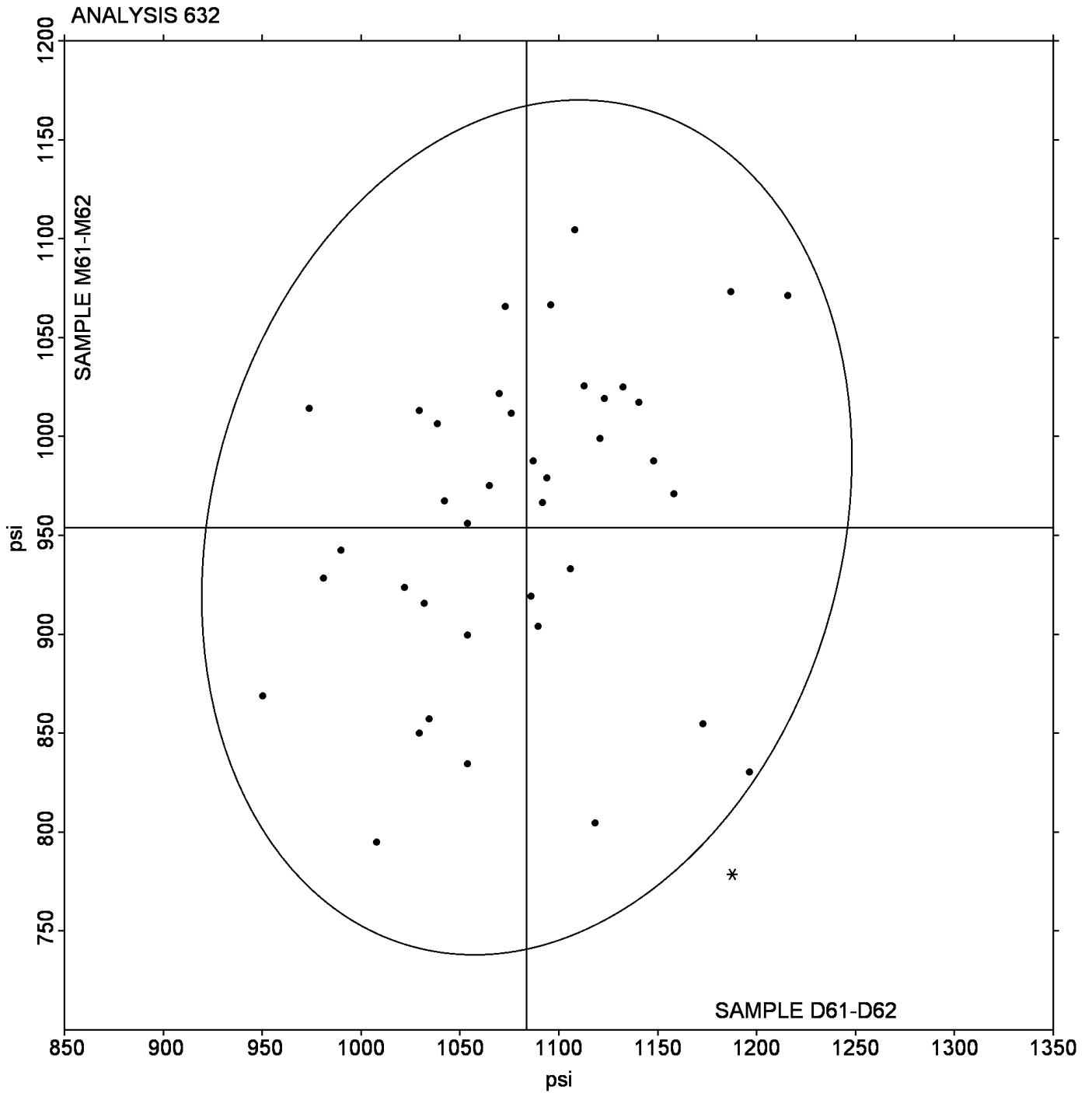
R6F24Q (X) - Inconsistency in testing between Sample sets. Data for Sample set M61-M62 are low.

Analysis 632

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

Grand Mean Sample D61-D62 = 1,083.80 psi

Grand Mean Sample M61-M62 = 954.01 psi



Analysis 633

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

WebCode	Data Flag	Sample D61-D62			Sample M61-M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2NFM3M		218.3	-21.1	-1.79	218.3	-0.6	-0.03	ZZ
31B183		238.0	-1.4	-0.12	219.5	0.6	0.04	ZZ
31XK43		258.0	18.6	1.59	243.5	24.6	1.38	ZZ
3ZEPHG		228.5	-10.9	-0.92	211.0	-7.9	-0.44	ZZ
3ZH7M7		237.5	-1.9	-0.16	224.0	5.1	0.28	ZZ
6HRDNR		231.5	-7.9	-0.67	239.5	20.6	1.15	ZZ
7K8XVE		243.5	4.1	0.35	225.0	6.1	0.34	ZZ
7PNDD6		241.5	2.1	0.18	226.0	7.1	0.40	ZZ
7TQWVR		227.3	-12.0	-1.02	216.2	-2.7	-0.15	ZZ
88FLGU		223.4	-16.0	-1.36	185.6	-33.2	-1.86	ZZ
9FJ1N		246.0	6.6	0.57	247.5	28.6	1.60	ZZ
9SY4UL		235.0	-4.4	-0.37	225.5	6.6	0.37	ZZ
AE8H9B		234.2	-5.2	-0.44	221.1	2.3	0.13	ZZ
CGXHLQ	*	276.5	37.1	3.16	235.0	16.1	0.90	ZZ
CQHAAA		228.5	-10.9	-0.92	222.0	3.1	0.18	ZZ
E2GPE4	X	237.0	-2.4	-0.20	115.5	-103.4	-5.78	ZZ
EL5P81		229.0	-10.4	-0.88	200.0	-18.9	-1.05	ZZ
F5WN3H		241.0	1.6	0.14	220.0	1.1	0.06	ZZ
F79VWS		235.5	-3.9	-0.33	249.0	30.1	1.68	ZZ
FDT6ST		234.5	-4.9	-0.41	214.5	-4.4	-0.24	ZZ
FLQ63E		241.0	1.6	0.14	230.0	11.1	0.62	ZZ
GTFJDT		247.0	7.6	0.65	178.6	-40.3	-2.25	ZZ
H9HQV2		243.5	4.1	0.35	222.5	3.6	0.20	ZZ
HAVGQ4		221.2	-18.1	-1.54	236.0	17.1	0.96	ZZ
J72UHV		232.7	-6.6	-0.56	209.4	-9.4	-0.53	ZZ
JB9KEU		238.0	-1.4	-0.12	228.0	9.1	0.51	ZZ
JXKQX9		261.5	22.1	1.88	196.5	-22.4	-1.25	ZZ
K2AXGB	X	280.9	41.6	3.53	282.3	63.5	3.55	ZZ
L72B2Q		242.9	3.6	0.30	176.2	-42.6	-2.38	ZZ
NYCVXR		246.0	6.6	0.57	231.5	12.6	0.71	ZZ
P7W193		232.5	-6.9	-0.58	220.0	1.1	0.06	ZZ
PBSCXT		240.8	1.5	0.13	226.6	7.7	0.43	ZZ
RPMTUZ		229.0	-10.4	-0.88	215.5	-3.4	-0.19	ZZ
TDV4ZJ		240.0	0.6	0.05	192.0	-26.8	-1.50	ZZ
TJ4K87		260.5	21.1	1.80	240.6	21.7	1.21	ZZ

**Rubber Interlaboratory Testing Program
Analysis 633**

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

WebCode	Data Flag	Sample D61-D62			Sample M61-M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
U83FTR		241.1	1.7	0.15	219.0	0.2	0.01	ZZ
VLJU7A		236.4	-2.9	-0.25	225.5	6.7	0.37	ZZ
WCYBQ		243.4	4.0	0.34	217.0	-1.9	-0.10	ZZ
XKT4R1		260.2	20.8	1.77	232.9	14.0	0.78	ZZ
ZJ697C		232.5	-6.9	-0.58	185.5	-33.4	-1.86	ZZ
ZLS4HJ		237.0	-2.4	-0.20	209.0	-9.9	-0.55	ZZ

Summary Statistics			
Grand Means	239.36	psi	218.86
Std Dev Btwn Labs	11.76	psi	17.89
Statistics based on 39 of 41 reporting participants			

Summary Statistics in SI Units			
Grand Means	1.6503	MPa	1.51
Std Dev Btwn Labs	0.0811	MPa	0.12
Statistics based on 39 of 41 reporting participants			

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #633

E2GPE4 (X) - Inconsistency in testing between Sample sets. Data for Sample M61-M62 are low.

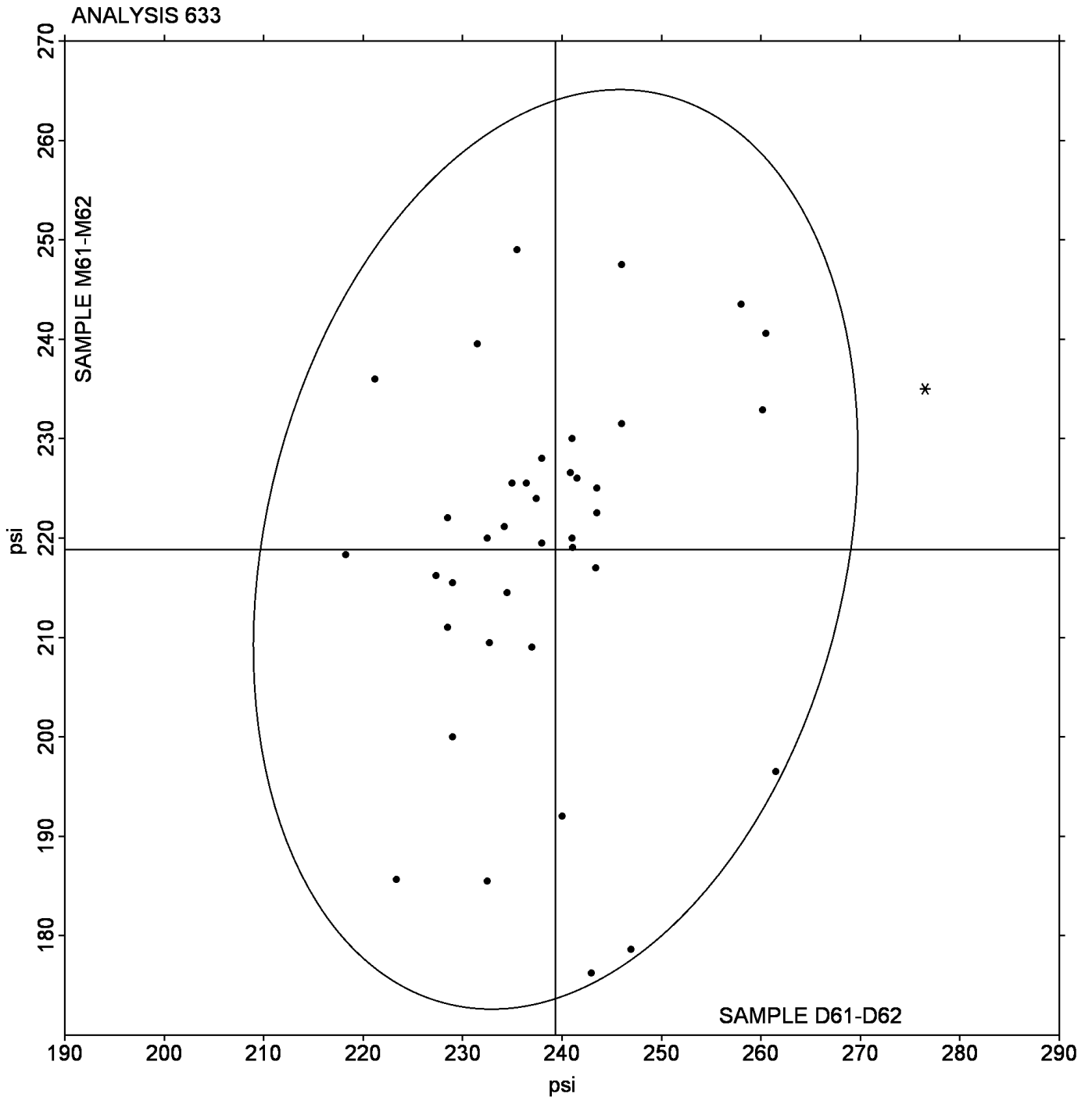
K2AXGB (X) - Data for all Samples are high.

Analysis 633

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

Grand Mean Sample D61-D62 = 239.36 psi

Grand Mean Sample M61-M62 = 218.86 psi



Rubber Interlaboratory Testing Program

Analysis 660

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

WebCode	Data Flag	Sample V61-V62			Sample V63-V64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1NE1R9		73.33	0.66	0.67	45.08	-0.42	-0.56	MR
29K5PA		72.15	-0.52	-0.52	45.58	0.08	0.11	MR
2CNZKL		73.02	0.35	0.35	45.82	0.31	0.42	MR
2EW7PZ		71.02	-1.65	-1.67	44.28	-1.22	-1.63	MR
2HSXP4		72.43	-0.24	-0.24	45.28	-0.22	-0.29	MR
2WANLL		73.65	0.98	0.99	45.67	0.16	0.22	MR
32T454		72.73	0.06	0.06	44.73	-0.77	-1.03	MR
32USVU		72.73	0.06	0.06	45.52	0.01	0.02	MR
3S2HZZ		72.38	-0.29	-0.29	46.27	0.76	1.02	MR
4AG9KM	X	77.33	4.66	4.69	46.81	1.30	1.74	MP
4M589R	*	71.43	-1.24	-1.25	46.75	1.25	1.66	MR
4USXD8		74.03	1.36	1.37	47.02	1.51	2.02	MM
6JNPN1		72.97	0.30	0.30	45.88	0.38	0.51	MR
6MSRTA		71.98	-0.69	-0.69	45.53	0.02	0.03	MM
7H2GT3	X	49.48	-23.19	-23.37	33.80	-11.70	-15.60	MR
86CQYR		71.87	-0.80	-0.80	44.77	-0.73	-0.98	MR
8WHUN9		74.37	1.70	1.71	45.23	-0.27	-0.36	MR
8XTP83		72.95	0.28	0.28	45.68	0.18	0.24	MR
ALBS5V	X	76.47	3.80	3.83	49.44	3.93	5.24	XX
E3BBTT		73.65	0.98	0.99	45.90	0.40	0.53	MR
FL3U97		72.95	0.28	0.28	45.82	0.31	0.42	MR
FPM576		71.82	-0.85	-0.86	45.23	-0.27	-0.36	MR
G1NEXZ		72.37	-0.30	-0.31	45.55	0.05	0.06	MR
HBMCBE		72.90	0.23	0.23	45.77	0.26	0.35	MR
HGVLXN		71.56	-1.12	-1.12	44.57	-0.93	-1.24	TV
HJV48A		72.87	0.20	0.20	45.35	-0.15	-0.21	MR
HSBFVP		73.08	0.41	0.42	45.28	-0.22	-0.29	MR
JYYEF8		72.43	-0.24	-0.24	44.43	-1.07	-1.43	MR
K8ZY1T		72.53	-0.14	-0.14	45.98	0.48	0.64	MR
LSEGZ5		73.17	0.50	0.50	44.77	-0.74	-0.98	MR
LUGWB		74.23	1.56	1.58	46.52	1.01	1.35	TV
LXA38L		72.22	-0.45	-0.46	45.40	-0.10	-0.14	MR
PC7JGQ		71.28	-1.39	-1.40	44.26	-1.25	-1.66	MR
PSZDTF		73.32	0.65	0.65	46.58	1.08	1.44	MR
QNFNY5	*	70.50	-2.17	-2.19	43.10	-2.40	-3.20	MR

Analysis 660

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

WebCode	Data Flag	Sample V61-V62			Sample V63-V64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
RFBR8Y		73.62	0.95	0.95	45.93	0.43	0.57	MZ
S83NWS		72.02	-0.65	-0.66	45.52	0.01	0.02	MR
SA3Q3N		70.75	-1.92	-1.94	45.40	-0.10	-0.14	MP
SREQ8R		71.45	-1.23	-1.23	44.76	-0.75	-1.00	MR
T5CYQ5		72.42	-0.25	-0.26	46.37	0.86	1.15	MM
TXA1NU		71.95	-0.72	-0.73	45.50	-0.01	-0.01	TV
UQCGBR		73.42	0.75	0.75	46.15	0.65	0.86	MM
VR9APE		74.32	1.65	1.66	46.10	0.60	0.79	MR
XB74WJ		74.19	1.51	1.53	45.80	0.29	0.39	MR
ZJBZGM		74.12	1.45	1.46	46.03	0.53	0.71	MR

Grand Means		Summary Statistics	
	72.670 ML 1 + 4		45.504 ML 1 + 4
Std Dev Btwn Labs	0.992 ML 1 + 4		0.750 ML 1 + 4
Statistics based on 42 of 45 reporting participants			

Samples V61-V62: NBR & V63-V64: butyl

Comments on assigned Data Flags for Test #660

- 4AG9KM (X) - Inconsistency in testing between Sample sets. Data for Sample set V61-V62 are high.
- 7H2GT3 (X) - Data for all Samples are low.
- ALBS5V (X) - Data for all Samples are high.

Instrument Code Listing

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

Instruments:

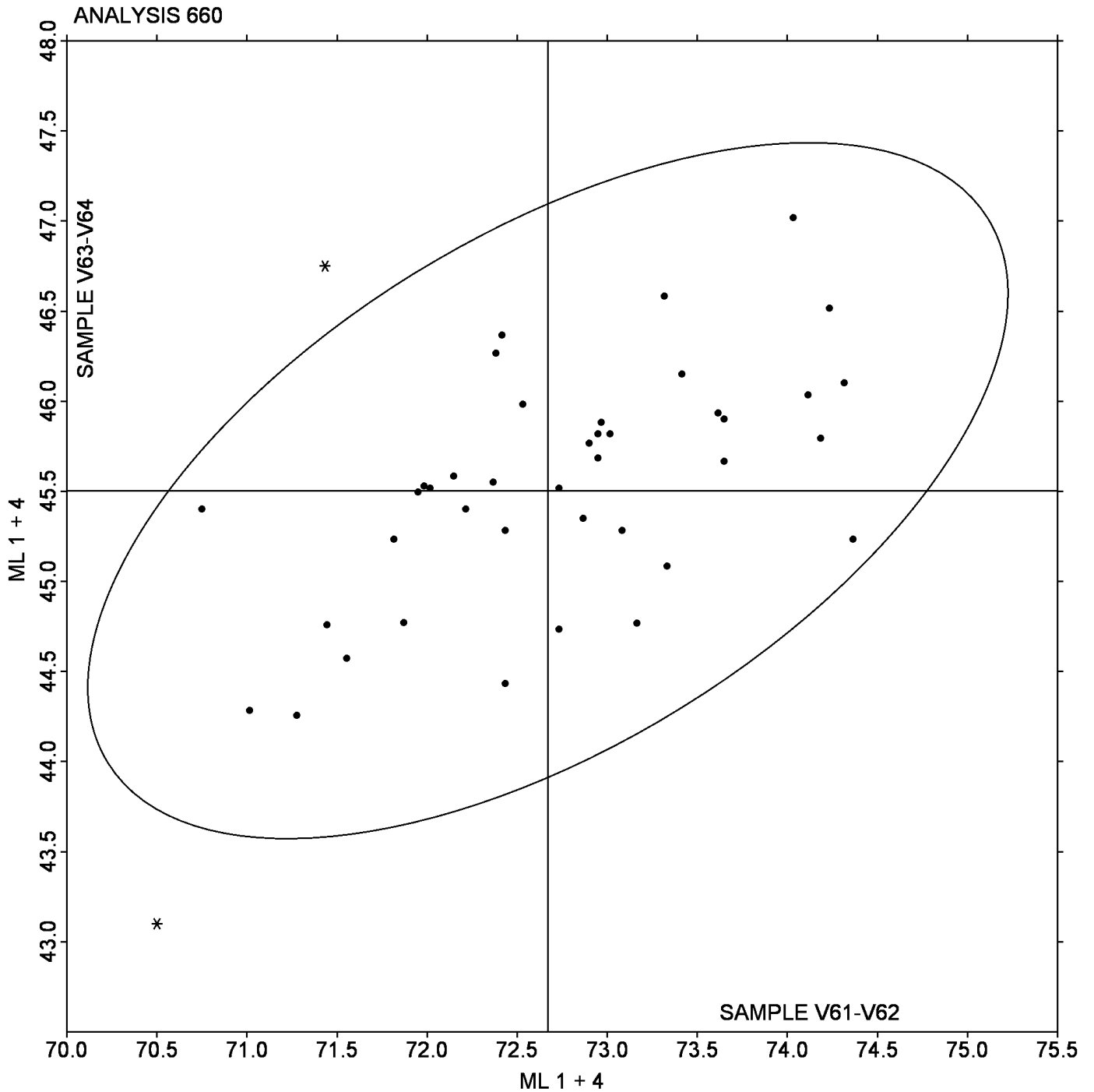
- (ML) Alpha Technologies/Monsanto model not specified
- (MP) Monsanto Compact Mooney Viscometer
- (MZ) Rebuilt Monsanto Mooney Viscometer
- (TV) Tech Pro Visc Tech (any model)
- (XX) Instrument make/model not specified by lab
- (MM) Alpha Technologies Model 1xxx or OSM
- (MR) Alpha Technologies Model 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 V61-V62 = 72.670 ML 1 + 4

Grand Mean Sample V63-V64 = 45.504 ML 1 + 4



Analysis 661

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

WebCode	Data Flag	Sample V61-V62			Sample V63-V64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
16AMB1		71.56	-1.10	-1.08	43.27	-0.49	-0.63	TV
2AK975		73.08	0.43	0.42	43.73	-0.03	-0.04	MR
2EUC8E		74.19	1.53	1.51	43.91	0.14	0.18	MR
37QXQ5		72.43	-0.22	-0.22	43.75	-0.01	-0.01	MR
3HPUAJ		74.12	1.46	1.44	44.22	0.46	0.59	MR
45M7NA		72.37	-0.29	-0.28	44.07	0.31	0.39	MR
48V9XD		70.75	-1.90	-1.88	42.75	-1.01	-1.30	MM
4HYHA5		71.82	-0.84	-0.83	43.60	-0.16	-0.21	MR
4LK8PF		74.23	1.58	1.56	44.32	0.56	0.71	TV
4QF55U		71.87	-0.78	-0.77	43.28	-0.48	-0.62	MR
5267YM	X	77.33	4.67	4.61	43.85	0.09	0.12	ML
6C7HA8		72.87	0.21	0.21	43.55	-0.21	-0.27	MR
7FU6TF		71.02	-1.64	-1.61	42.80	-0.96	-1.23	MR
8FD92E		73.62	0.96	0.95	44.02	0.26	0.33	MZ
8UUDC3		72.95	0.30	0.29	43.77	0.01	0.01	MR
8XJMN3		74.03	1.38	1.36	44.15	0.39	0.50	MM
BAQSGL		72.90	0.25	0.24	44.27	0.51	0.65	MR
C7Y9A5		71.45	-1.21	-1.19	42.96	-0.80	-1.03	MR
DB8S36		73.42	0.76	0.75	44.68	0.92	1.18	MM
EW3JEH		72.73	0.08	0.08	44.47	0.71	0.91	MR
GUGR1Z		71.98	-0.67	-0.66	43.56	-0.20	-0.26	MM
GXA1JC	*	70.50	-2.15	-2.12	41.30	-2.46	-3.16	MR
HB2RQN		72.22	-0.44	-0.43	44.05	0.29	0.37	MR
JJTJH2		72.02	-0.64	-0.63	43.88	0.12	0.16	MR
K6MV3Q		73.33	0.68	0.67	43.43	-0.33	-0.42	MR
LCFMEY		72.95	0.30	0.29	44.38	0.62	0.80	MR
M1FAJW		73.65	1.00	0.98	44.38	0.62	0.80	MR
M3R4MB		72.42	-0.24	-0.23	42.58	-1.18	-1.51	MM
MG1K18	*	71.43	-1.22	-1.20	44.85	1.09	1.40	TV
N45UD7	*	72.38	-0.27	-0.27	45.48	1.72	2.21	MR
P5SPP2		73.17	0.51	0.51	43.38	-0.38	-0.48	MR
S8Q8FJ		74.32	1.66	1.64	44.55	0.79	1.01	MR
SS9CMF		73.65	1.00	0.98	44.13	0.37	0.48	MR
UD4RJG		72.15	-0.50	-0.50	44.10	0.34	0.44	MR
V1R2PK		71.28	-1.38	-1.36	42.98	-0.78	-1.00	MR

Analysis 661

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

WebCode	Data Flag	Sample V61-V62			Sample V63-V64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VBNGQB		72.73	0.08	0.08	43.25	-0.51	-0.66	MR
WTJGYN		74.37	1.71	1.69	43.28	-0.48	-0.61	MR
YALPKT		72.43	-0.22	-0.22	42.60	-1.16	-1.49	MR
YX8L3B	X	49.48	-23.17	-22.84	31.72	-12.04	-15.46	MR
YYQ6WS		73.32	0.66	0.65	45.03	1.27	1.63	MR
ZKL95C		72.53	-0.12	-0.12	44.27	0.51	0.65	MR
ZUTPBL		71.95	-0.70	-0.69	43.40	-0.37	-0.47	TV

Grand Means		Summary Statistics	
	72.654 ML		43.761 ML
Std Dev Btwn Labs			0.779 ML
	1.015 ML	Statistics based on 40 of 42 reporting participants	

Please refer to the sample information provided for Analysis 660.

Comments on assigned Data Flags for Test #661

5267YM (X) - Data for all Samples are high. Also inconsistent in testing within both Sample sets.

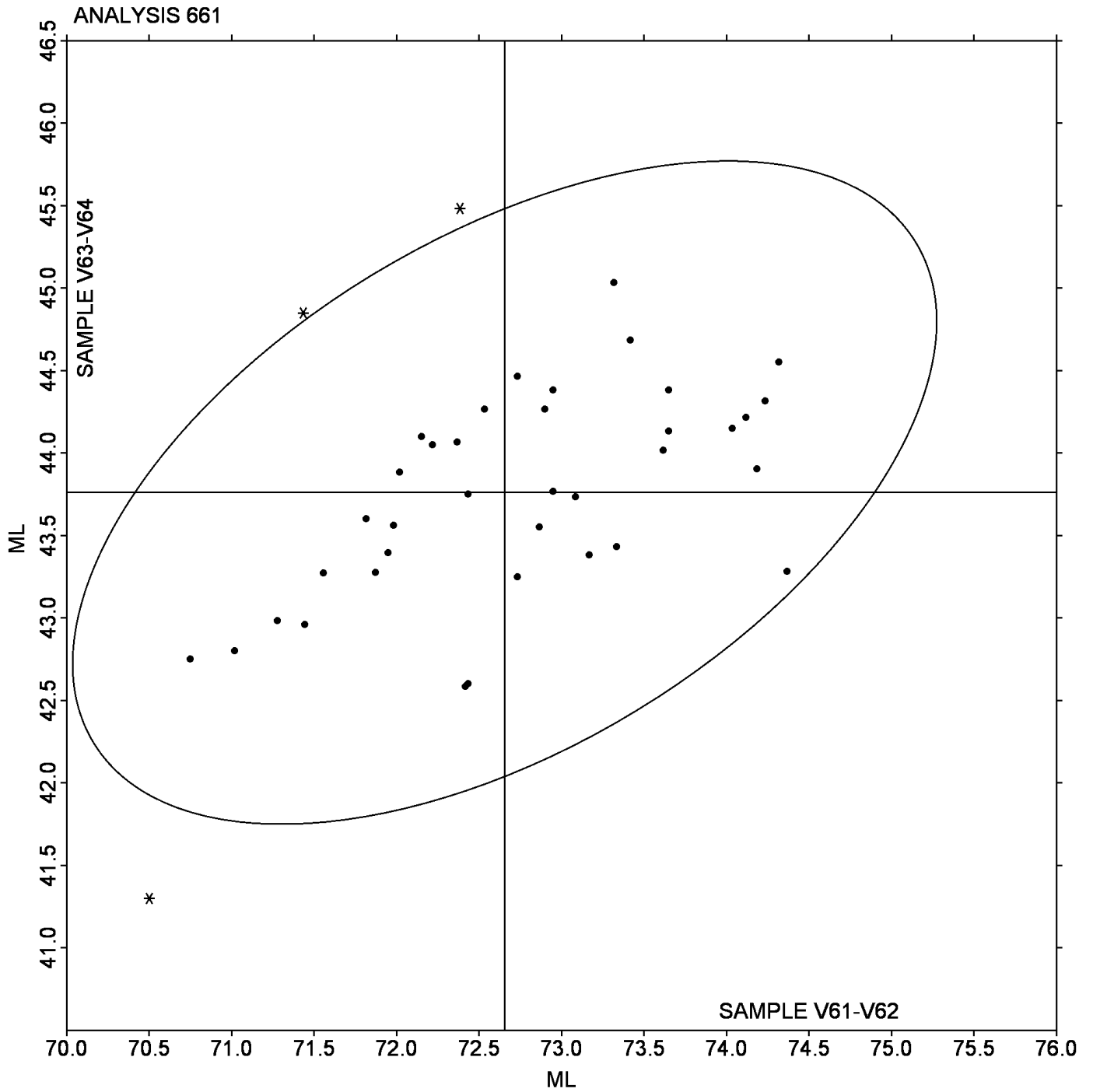
YX8L3B (X) - Data for all Samples are low.

Analysis 661

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

Grand Mean Sample V61-V62 = 72.654 ML

Grand Mean Sample V63-V64 = 43.761 ML



Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Z61-Z62			Sample Z63-Z64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2UXSJA	*	1.560	0.117	0.90	3.088	0.834	2.75	ZZ
3KJ7RY		1.548	0.105	0.81	2.203	-0.051	-0.17	ZZ
3QZKRY		1.557	0.114	0.87	2.235	-0.019	-0.06	ZZ
7M9GM9		1.513	0.070	0.54	2.395	0.141	0.46	ZZ
A2GZCX		1.655	0.212	1.62	2.398	0.144	0.47	ZZ
A45MLZ		1.505	0.062	0.47	2.152	-0.103	-0.34	ZZ
BPDEQH		1.352	-0.091	-0.69	2.294	0.040	0.13	ZZ
C5W6WQ		1.323	-0.120	-0.92	2.047	-0.208	-0.68	ZZ
CHNXL1		1.505	0.062	0.47	2.222	-0.033	-0.11	ZZ
FL1HEJ		1.350	-0.093	-0.71	1.990	-0.264	-0.87	ZZ
GAZW2Y		1.292	-0.151	-1.16	2.233	-0.021	-0.07	ZZ
N3QHNQ		1.397	-0.046	-0.35	1.898	-0.356	-1.17	ZZ
Q19XUR		1.698	0.255	1.95	2.793	0.539	1.78	ZZ
SUXPML		1.342	-0.101	-0.78	2.440	0.186	0.61	ZZ
TSC2RS		1.432	-0.011	-0.09	2.138	-0.116	-0.38	ZZ
VCGUDU		1.287	-0.156	-1.20	1.890	-0.364	-1.20	ZZ
XZZBCJ		1.250	-0.193	-1.48	1.938	-0.316	-1.04	ZZ
YDNNVL		1.408	-0.035	-0.27	2.222	-0.033	-0.11	ZZ

Summary Statistics

Grand Means

1.4430 minutes

2.2543 minutes

Std Dev Btwn Labs

0.1306 minutes

0.3034 minutes

Statistics based on 18 of 18 reporting participants

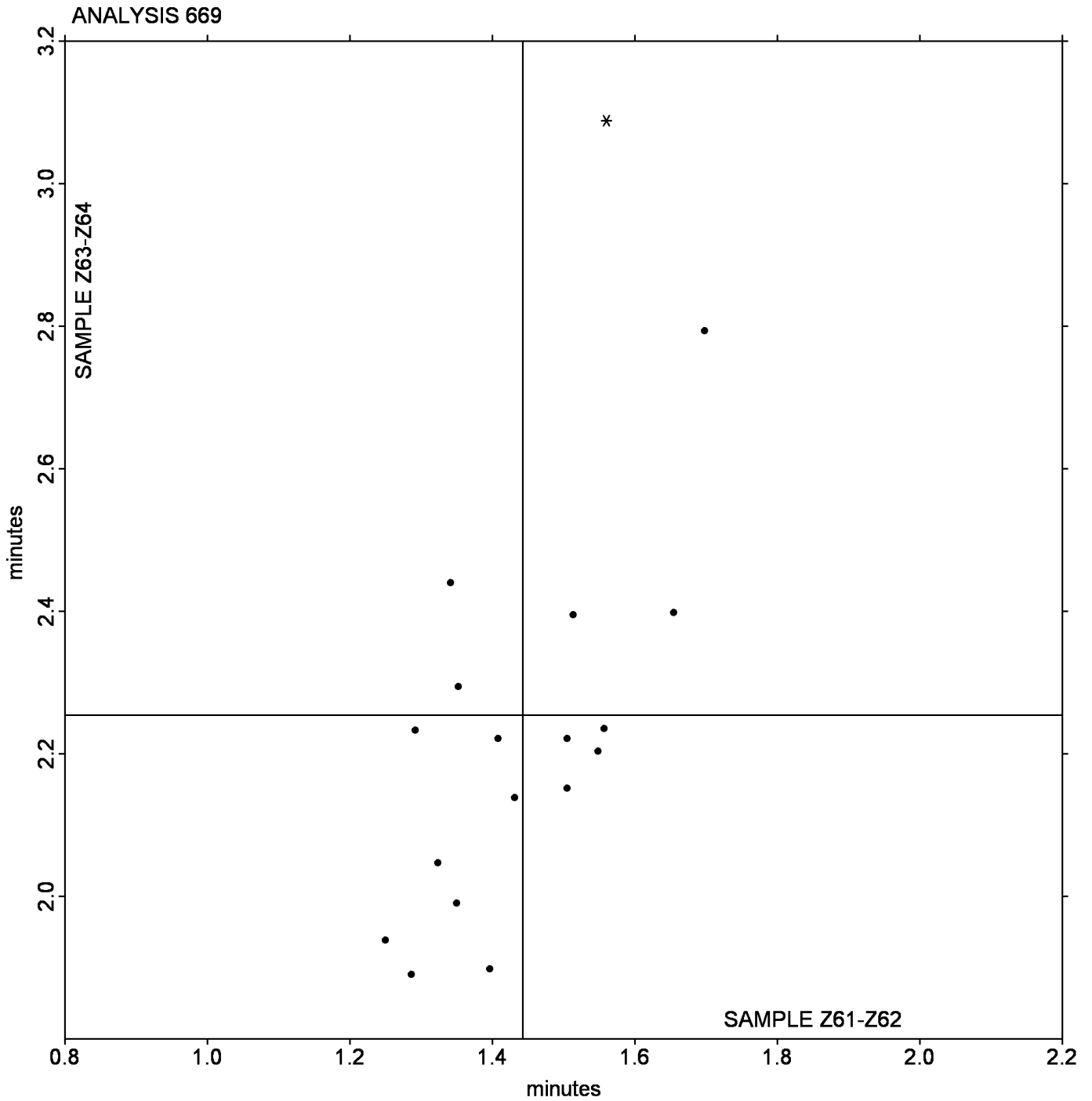
Samples Z61-Z62: EPDM compound #1 & Z63-Z64: EPDM compound #2

Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample Z61-Z62 = 1.4430 minutes

Grand Mean Sample Z63-Z64 = 2.2543 minutes



Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Z61-Z62			Sample Z63-Z64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1BCTNK		1.043	-0.044	-0.40	1.502	-0.220	-0.73	ZZ
26C3BQ		0.937	-0.150	-1.38	1.377	-0.345	-1.15	ZZ
2YYCSK		1.085	-0.002	-0.02	1.568	-0.153	-0.51	ZZ
3FYRKX		0.930	-0.157	-1.44	1.805	0.084	0.28	ZZ
4ZV584		1.313	0.226	2.08	1.887	0.165	0.55	ZZ
56H6A2	*	1.158	0.071	0.66	2.667	0.945	3.14	ZZ
DPAXZ5		1.048	-0.039	-0.35	1.715	-0.006	-0.02	ZZ
H4QFUF		1.007	-0.080	-0.74	1.427	-0.295	-0.98	ZZ
H6V5XK		0.983	-0.104	-0.95	1.562	-0.160	-0.53	ZZ
HH9PND		1.011	-0.076	-0.70	1.771	0.049	0.16	ZZ
K8523K		1.303	0.216	1.99	1.950	0.229	0.76	ZZ
KF5CHQ		1.148	0.061	0.56	1.632	-0.090	-0.30	ZZ
LNA7S4		1.132	0.045	0.41	2.200	0.479	1.59	ZZ
N2FF2R		1.055	-0.032	-0.29	1.362	-0.360	-1.20	ZZ
N4E4WS		1.100	0.013	0.12	1.702	-0.020	-0.07	ZZ
NMBYFQ		1.205	0.118	1.09	1.900	0.179	0.59	ZZ
PU8YRB		1.002	-0.085	-0.78	1.445	-0.276	-0.92	ZZ
PYACTD		1.083	-0.004	-0.03	1.758	0.037	0.12	ZZ
Q4DLDM		1.052	-0.035	-0.32	2.025	0.304	1.01	ZZ
SR3RKP		0.905	-0.182	-1.67	1.377	-0.345	-1.15	ZZ
V9RAYJ		1.130	0.043	0.40	1.708	-0.013	-0.04	ZZ
XEBV75		1.203	0.116	1.07	1.605	-0.116	-0.39	ZZ
YBS883		1.163	0.076	0.70	1.650	-0.071	-0.24	ZZ

Summary Statistics	
Grand Means	
1.0869 minutes	1.7214 minutes
Std Dev Btwn Labs	
0.1088 minutes	0.3009 minutes
Statistics based on 23 of 23 reporting participants	

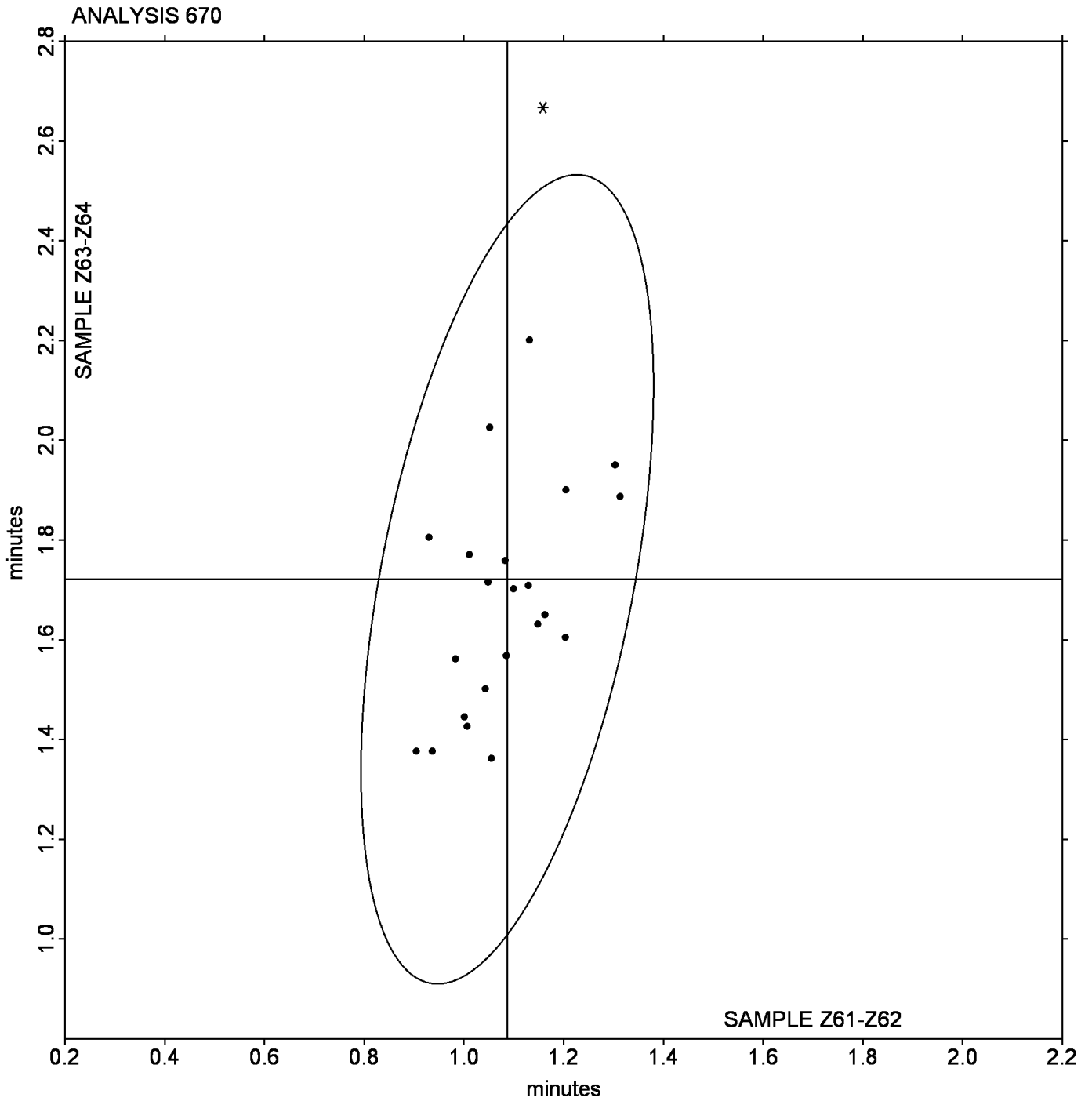
Samples Z61-Z62: EPDM compound #1 & Z63-Z64: EPDM compound #2

Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

Grand Mean Sample Z61-Z62 = 1.0869 minutes

Grand Mean Sample Z63-Z64 = 1.7214 minutes



Rubber Interlaboratory Testing Program

Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Z61-Z62			Sample Z63-Z64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3UBH3E		2.572	-0.388	-1.38	4.268	-0.399	-0.96	ZZ
3YT9QT		2.697	-0.263	-0.93	4.336	-0.332	-0.80	ZZ
61T7ZB	*	3.760	0.800	2.84	5.513	0.846	2.03	ZZ
8LRYW9		2.877	-0.083	-0.30	4.740	0.072	0.17	ZZ
976C8E		3.213	0.254	0.90	4.843	0.176	0.42	ZZ
C2673Z		2.765	-0.195	-0.69	4.605	-0.063	-0.15	ZZ
C93ZAT		3.522	0.562	2.00	5.325	0.657	1.58	ZZ
CSYHGN		2.753	-0.206	-0.73	4.545	-0.123	-0.29	ZZ
DSUUM		2.978	0.019	0.07	5.077	0.409	0.98	ZZ
E2G3QY		2.982	0.022	0.08	4.693	0.026	0.06	ZZ
EEH21N		3.033	0.074	0.26	4.925	0.257	0.62	ZZ
H59W73		3.013	0.054	0.19	4.597	-0.071	-0.17	ZZ
JL4GVJ		3.062	0.102	0.36	4.607	-0.061	-0.15	ZZ
K8RR8M		2.838	-0.121	-0.43	4.315	-0.353	-0.85	ZZ
MMWND		2.712	-0.248	-0.88	4.233	-0.434	-1.04	ZZ
MTRDA		3.128	0.169	0.60	4.775	0.107	0.26	ZZ
PU2QCJ	*	3.233	0.274	0.97	5.582	0.914	2.19	ZZ
PVXDS6		2.710	-0.250	-0.89	4.298	-0.369	-0.89	ZZ
Q2UP5P		3.083	0.124	0.44	4.722	0.054	0.13	ZZ
S7L5F7		2.768	-0.191	-0.68	3.953	-0.714	-1.71	ZZ
SCNKHA		2.867	-0.093	-0.33	4.450	-0.218	-0.52	ZZ
URRXNK		2.823	-0.136	-0.48	4.775	0.107	0.26	ZZ
YB6PC4		2.685	-0.275	-0.98	4.177	-0.491	-1.18	ZZ

		Summary Statistics	
Grand Means	2.9598 minutes	4.6676 minutes	
Std Dev Btwn Labs	0.2815 minutes	0.4169 minutes	
Statistics based on 23 of 23 reporting participants			

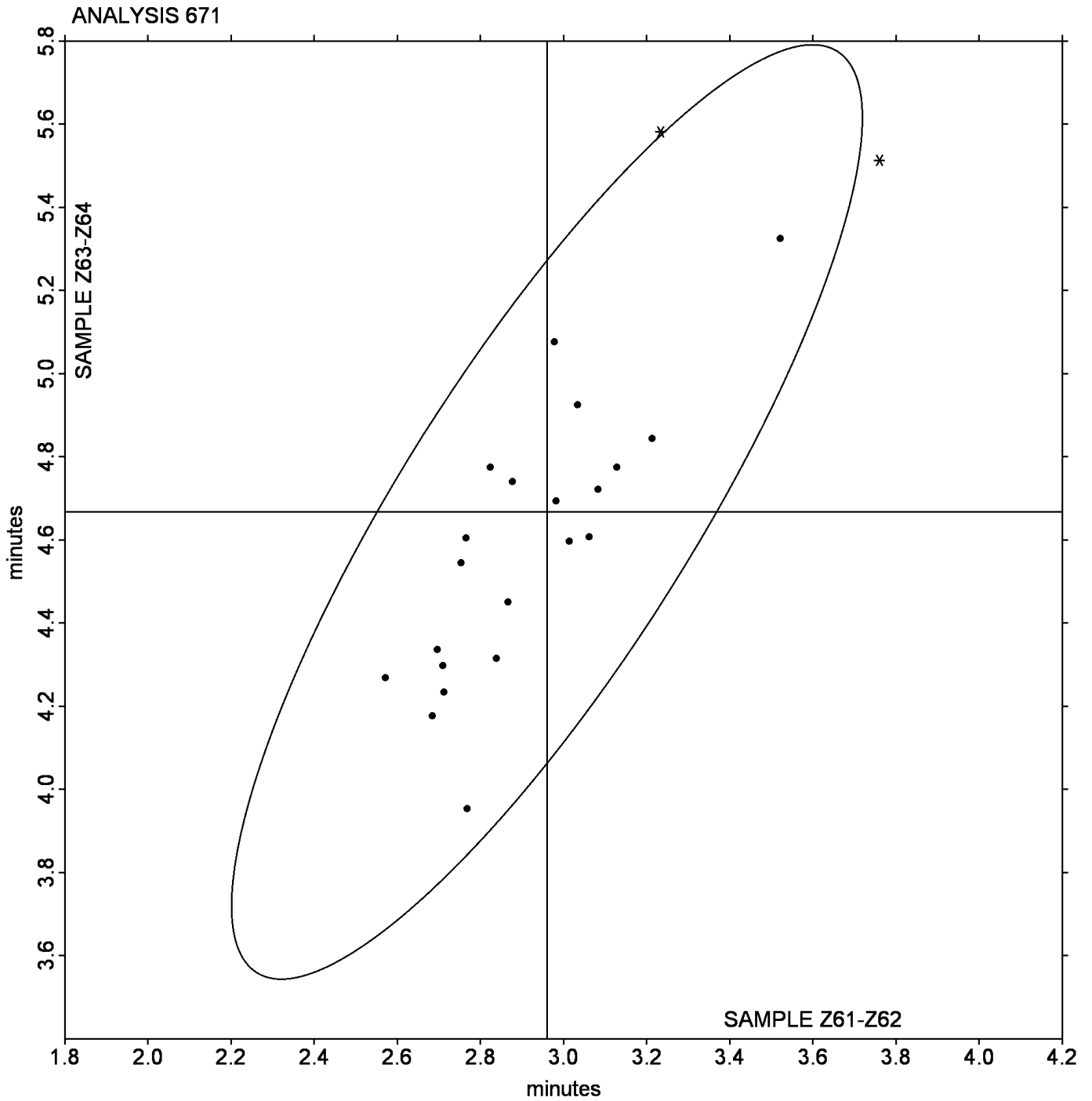
Samples Z61-Z62: EPDM compound #1 & Z63-Z64: EPDM compound #2

Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample Z61-Z62 = 2.9598 minutes

Grand Mean Sample Z63-Z64 = 4.6676 minutes



Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Z61-Z62			Sample Z63-Z64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1PQVC2		12.40	0.13	0.11	8.520	-0.168	-0.13	ZZ
2687G3		11.80	-0.47	-0.40	8.013	-0.675	-0.52	ZZ
2KWL6E	*	15.81	3.53	2.99	11.048	2.360	1.81	ZZ
5CFY99		11.91	-0.36	-0.31	8.458	-0.230	-0.18	ZZ
87PKHX		11.02	-1.26	-1.07	6.888	-1.800	-1.38	ZZ
AHKW3		13.90	1.63	1.38	9.327	0.639	0.49	ZZ
BXQ2SD		13.35	1.07	0.91	10.317	1.629	1.25	ZZ
BY56L5		11.91	-0.37	-0.31	9.257	0.569	0.44	ZZ
CHHLSP		12.32	0.05	0.04	8.537	-0.151	-0.12	ZZ
CX8RQ5		12.72	0.45	0.38	8.530	-0.158	-0.12	ZZ
EFE8SF		11.57	-0.71	-0.60	7.157	-1.531	-1.17	ZZ
EUWKC3		11.35	-0.92	-0.78	7.889	-0.799	-0.61	ZZ
GMHDQ		9.93	-2.34	-1.98	7.283	-1.405	-1.08	ZZ
GX3QCM		12.28	0.00	0.00	8.000	-0.688	-0.53	ZZ
J1HKJY		11.89	-0.39	-0.33	7.387	-1.301	-1.00	ZZ
NP4D2Z		12.66	0.39	0.33	8.568	-0.120	-0.09	ZZ
NTRPQK	*	13.45	1.18	1.00	12.442	3.754	2.88	ZZ
QUN18P		11.05	-1.22	-1.03	9.070	0.382	0.29	ZZ
R7D47N		12.91	0.64	0.54	9.652	0.964	0.74	ZZ
SPN56M		13.05	0.77	0.66	9.137	0.449	0.34	ZZ
T55HV6		11.54	-0.74	-0.62	7.720	-0.968	-0.74	ZZ
VK2UU7		11.62	-0.65	-0.55	9.005	0.317	0.24	ZZ
YH1V9Q		11.88	-0.40	-0.34	7.617	-1.071	-0.82	ZZ

Summary Statistics

Grand Means

12.274 minutes

8.6878 minutes

Std Dev Btwn Labs

1.182 minutes

1.3050 minutes

Statistics based on 23 of 23 reporting participants

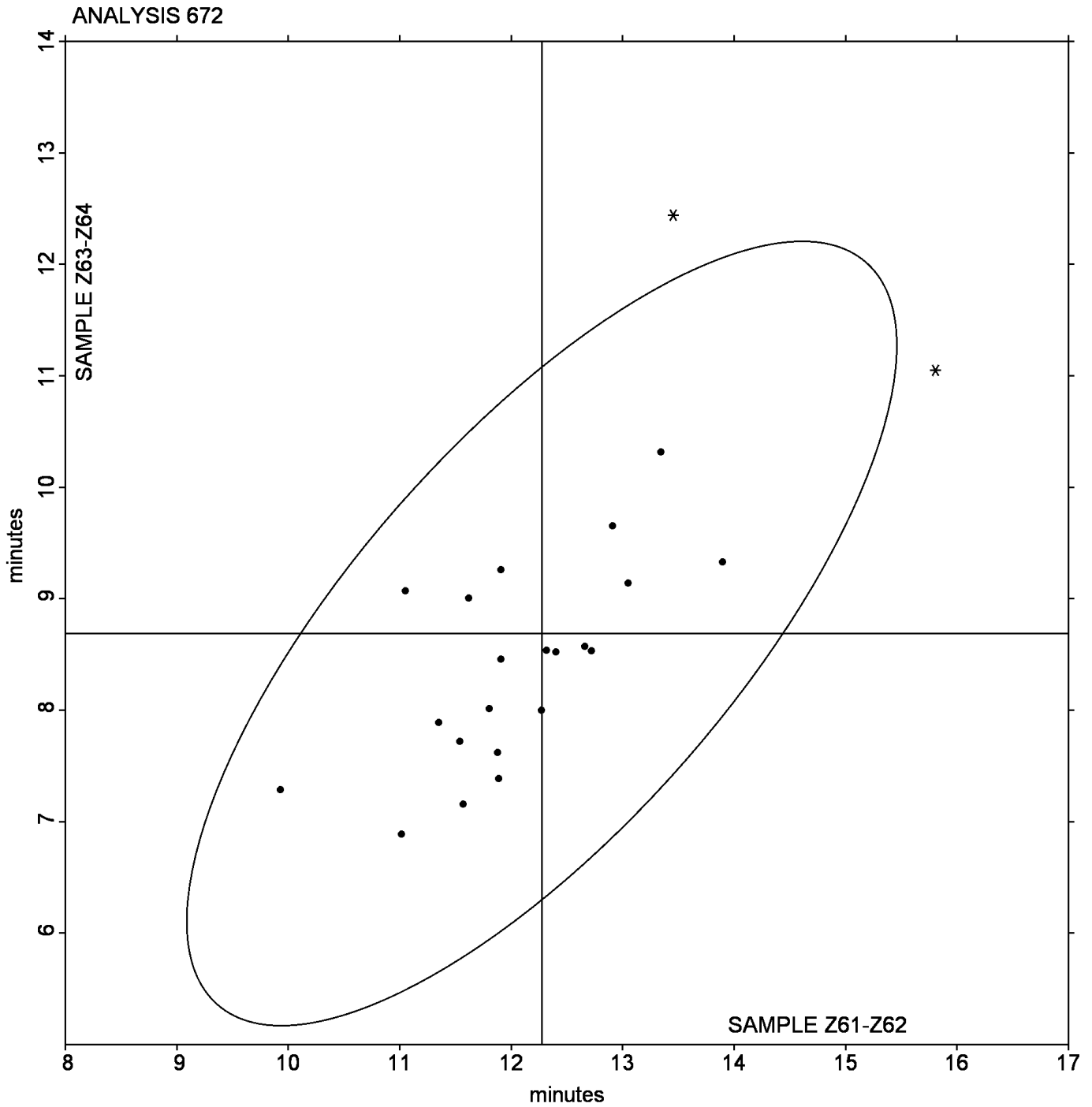
Samples Z61-Z62: EPDM compound #1 & Z63-Z64: EPDM compound #2

Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Z61-Z62 = 12.274 minutes

Grand Mean Sample Z63-Z64 = 8.6878 minutes



Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Z61-Z62			Sample Z63-Z64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
16LFP3		7.783	0.365	0.38	10.68	-0.55	-0.17	ZZ
1KJBGH		6.697	-0.722	-0.76	11.47	0.23	0.07	ZZ
45P15V		6.777	-0.642	-0.67	11.32	0.08	0.02	ZZ
66L617		7.423	0.005	0.00	9.58	-1.66	-0.51	ZZ
6QJKBY		7.390	-0.028	-0.03	12.97	1.73	0.53	ZZ
DY2QE4		7.470	0.051	0.05	13.82	2.59	0.79	ZZ
F5EBMY	X	13.513	6.095	6.40	19.07	7.83	2.40	ZZ
GSRM9D		7.298	-0.120	-0.13	9.89	-1.35	-0.41	ZZ
JBT83W		7.033	-0.385	-0.41	8.88	-2.35	-0.72	ZZ
JS7HYY		7.495	0.076	0.08	9.96	-1.28	-0.39	ZZ
MR251F		7.425	0.006	0.01	9.95	-1.29	-0.39	ZZ
MUPRV2		6.910	-0.509	-0.53	9.16	-2.08	-0.64	ZZ
Q1DAQE		7.242	-0.177	-0.19	9.60	-1.64	-0.50	ZZ
Q7PD7F		7.333	-0.085	-0.09	10.36	-0.88	-0.27	ZZ
RKGHAR		6.400	-1.019	-1.07	8.95	-2.29	-0.70	ZZ
S41L6X	*	10.732	3.313	3.48	21.15	9.91	3.03	ZZ
SWDW2F		8.382	0.963	1.01	18.23	6.99	2.14	ZZ
SYTHB9		8.785	1.366	1.44	14.08	2.84	0.87	ZZ
T2QG7K	X	3.463	-3.955	-4.16	13.90	2.66	0.81	ZZ
X4XTTW		6.563	-0.855	-0.90	8.26	-2.98	-0.91	ZZ
XL62BR		6.572	-0.847	-0.89	9.47	-1.77	-0.54	ZZ
XUKZ8A		6.897	-0.522	-0.55	8.49	-2.75	-0.84	ZZ
YBQM92		7.188	-0.230	-0.24	9.73	-1.51	-0.46	ZZ

Summary Statistics	
Grand Means	
7.4188 lbf.in	11.237 lbf.in
Std Dev Btwn Labs	
0.9518 lbf.in	3.267 lbf.in
Statistics based on 21 of 23 reporting participants	

Summary Statistics in SI Units	
Grand Means	
8.3821 dN.m	12.696 dN.m
Std Dev Btwn Labs	
1.0754 dN.m	3.691 dN.m
Statistics based on 21 of 23 reporting participants	

**Rubber Interlaboratory Testing Program
Analysis 673**

ODR Vulcanization: Minimum Torque (lbf.in)

Samples Z61-Z62: EPDM compound #1 & Z63-Z64: EPDM compound #2

Comments on assigned Data Flags for Test #673

F5EBMY (X) - Data for Sample set Z61-Z62 are high.

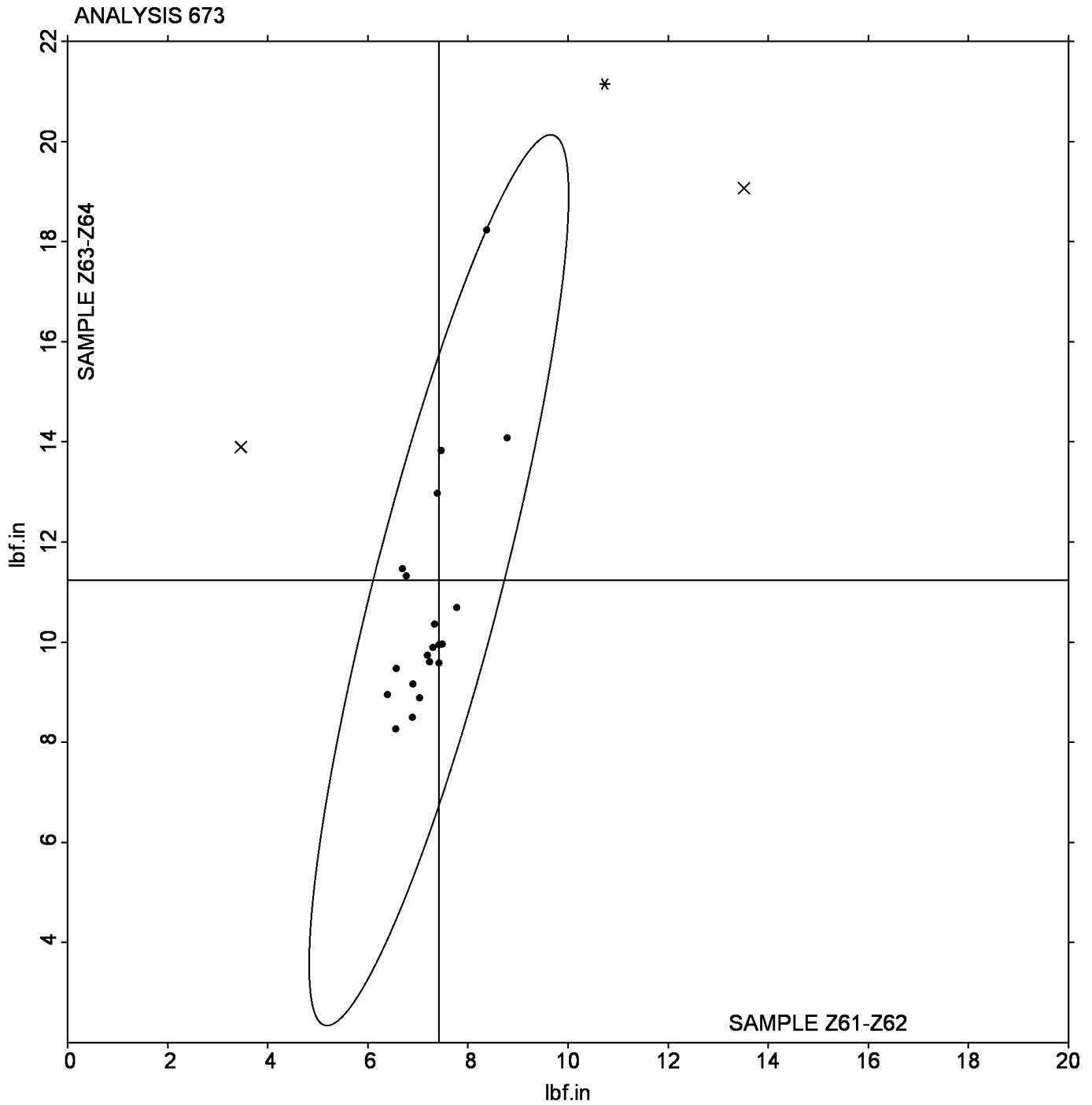
T2QG7K (X) - Data for Sample set Z61-Z62 are low.

Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Z61-Z62 = 7.4188 lbf.in

Grand Mean Sample Z63-Z64 = 11.237 lbf.in



Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Z61-Z62			Sample Z63-Z64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2AMYJ2		36.18	0.39	0.16	33.04	0.28	0.11	ZZ
2P4UYY		33.99	-1.80	-0.74	29.34	-3.42	-1.36	ZZ
8WX8QY		33.49	-2.31	-0.95	29.83	-2.94	-1.17	ZZ
9W994K		34.00	-1.80	-0.74	32.27	-0.49	-0.20	ZZ
APVN1N		37.68	1.88	0.77	33.87	1.11	0.44	ZZ
BEJ2ZY		35.62	-0.18	-0.07	31.90	-0.86	-0.34	ZZ
BXFA3P	X	23.85	-11.95	-4.91	31.62	-1.15	-0.46	ZZ
C91R7V		34.34	-1.45	-0.60	30.90	-1.86	-0.74	ZZ
CGPS2L		35.74	-0.06	-0.02	33.15	0.39	0.15	ZZ
EJL5EA		35.44	-0.36	-0.15	31.80	-0.96	-0.38	ZZ
EWVS1U		37.87	2.08	0.85	35.77	3.00	1.20	ZZ
FS6TMH		37.33	1.53	0.63	33.21	0.45	0.18	ZZ
NU6VDZ	*	39.55	3.75	1.54	40.21	7.45	2.96	ZZ
QU24MV		33.13	-2.67	-1.10	31.22	-1.55	-0.62	ZZ
REQ8ZT		33.35	-2.45	-1.00	30.52	-2.25	-0.89	ZZ
SYPERR		32.44	-3.36	-1.38	31.39	-1.37	-0.54	ZZ
TU99L4		35.24	-0.55	-0.23	32.12	-0.64	-0.25	ZZ
U2B9SA		32.79	-3.00	-1.23	30.86	-1.90	-0.76	ZZ
UKZ8GV		34.96	-0.84	-0.34	31.21	-1.55	-0.62	ZZ
VMF7SH		40.79	4.99	2.05	35.20	2.44	0.97	ZZ
VVGTHN		39.72	3.92	1.61	36.04	3.28	1.30	ZZ
VVZLL6		38.07	2.27	0.93	34.17	1.40	0.56	ZZ
ZR9NED	X	67.95	32.16	13.22	62.45	29.69	11.82	ZZ

Grand Means		Summary Statistics	
	35.795 lbf.in		32.762 lbf.in
Std Dev Btwn Labs			2.512 lbf.in
	2.433 lbf.in	Statistics based on 21 of 23 reporting participants	

Grand Means		Summary Statistics in SI Units	
	40.443 dN.m		37.016 dN.m
Std Dev Btwn Labs			2.839 dN.m
	2.749 dN.m	Statistics based on 21 of 23 reporting participants	

Rubber Interlaboratory Testing Program
Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

Samples Z61-Z62: EPDM compound #1 & Z63-Z64: EPDM compound #2

Comments on assigned Data Flags for Test #674

BXFA3P (X) - Data for Sample set Z61-Z62 are low.

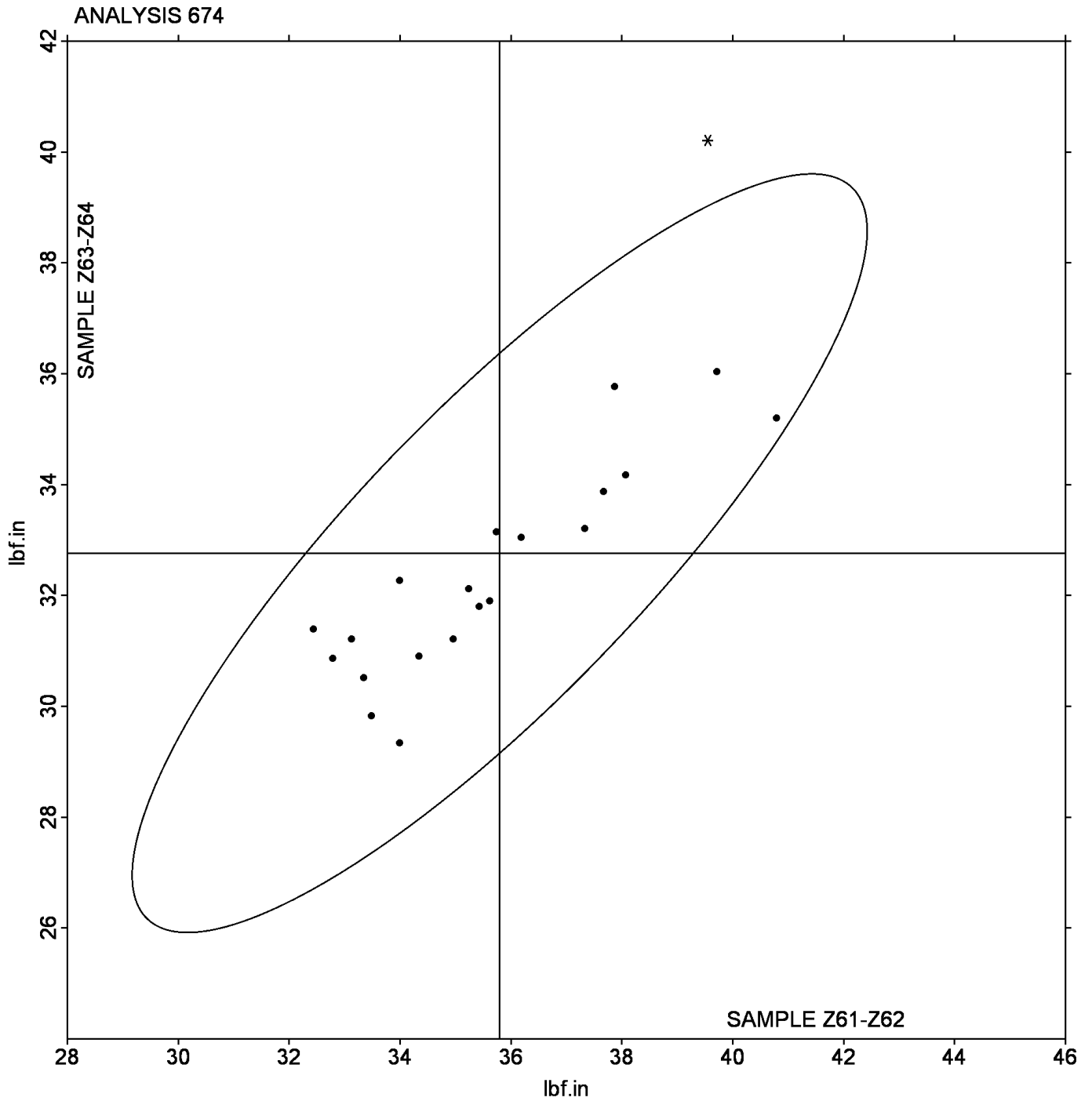
ZR9NED (X) - Data for Sample set Z61-Z62 are high.

Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Z61-Z62 = 35.795 lbf.in

Grand Mean Sample Z63-Z64 = 32.762 lbf.in



Rubber Interlaboratory Testing Program

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
13N4QW	X	1.225	-0.220	-4.48	1.223	-0.230	-3.90	MP
19LWTJ		1.403	-0.042	-0.85	1.403	-0.051	-0.86	MC
1CEFAQ		1.437	-0.008	-0.16	1.427	-0.027	-0.46	MD
7KQ2AS		1.515	0.070	1.43	1.512	0.058	0.98	MC
8AV7QP		1.412	-0.033	-0.67	1.440	-0.014	-0.23	MC
8FZABG		1.482	0.037	0.75	1.487	0.033	0.56	MC
8H5V12		1.425	-0.020	-0.40	1.412	-0.042	-0.71	TP
8J96DD		1.425	-0.020	-0.40	1.428	-0.026	-0.44	MC
8VAH8T		1.443	-0.001	-0.03	1.478	0.025	0.42	MC
955BJ3	*	1.532	0.087	1.77	1.593	0.140	2.36	MC
9PM5TR		1.455	0.010	0.21	1.448	-0.005	-0.09	MC
ALVC5N		1.417	-0.028	-0.57	1.433	-0.020	-0.35	MC
B32SBN		1.432	-0.013	-0.26	1.407	-0.047	-0.80	MC
BH4SFV		1.515	0.070	1.43	1.535	0.081	1.38	MC
BS9MP3		1.383	-0.061	-1.25	1.367	-0.087	-1.47	MC
CLGZ7M		1.433	-0.011	-0.23	1.458	0.005	0.08	MC
DKNF3E		1.425	-0.020	-0.40	1.457	0.003	0.05	XX
EEWEQ7		1.411	-0.033	-0.68	1.397	-0.057	-0.96	MC
H7P4ZQ		1.517	0.072	1.47	1.557	0.103	1.74	MD
HPK1K1		1.437	-0.008	-0.16	1.445	-0.009	-0.15	MC
LXW1QY		1.418	-0.026	-0.54	1.448	-0.005	-0.09	MD
M19M1B	X	1.807	0.362	7.38	1.848	0.395	6.68	MD
M6GAAU		1.513	0.069	1.40	1.530	0.076	1.29	TP
MBTU2M		1.543	0.099	2.01	1.560	0.106	1.80	MC
R31GGQ		1.515	0.070	1.43	1.508	0.055	0.92	MC
S8VATW		1.398	-0.046	-0.94	1.415	-0.039	-0.66	MC
SJZYPK		1.395	-0.050	-1.01	1.417	-0.037	-0.63	MC
TCJC11		1.373	-0.071	-1.45	1.347	-0.107	-1.81	MC
THWUDF		1.457	0.012	0.25	1.437	-0.017	-0.29	MC
W1JU5H		1.418	-0.026	-0.54	1.440	-0.014	-0.23	TP
WMH1S	X	1.582	0.137	2.79	1.517	0.063	1.06	MC
Y9HC6Y		1.375	-0.070	-1.42	1.383	-0.070	-1.19	MD
YNKWX		1.435	-0.010	-0.20	1.445	-0.009	-0.15	MC

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

		Summary Statistics	
Grand Means	1.4446 minutes		1.4538 minutes
Std Dev Btwn Labs	0.0491 minutes		0.0591 minutes
Statistics based on 30 of 33 reporting participants			

Samples Z65-Z66: EPDM compound, batch #1 & Z67-Z68: EPDM compound, batch #2

Comments on assigned Data Flags for Test #684

13N4QW (X) - Data for all Samples are low.

M19M1B (X) - Data for all Samples are high.

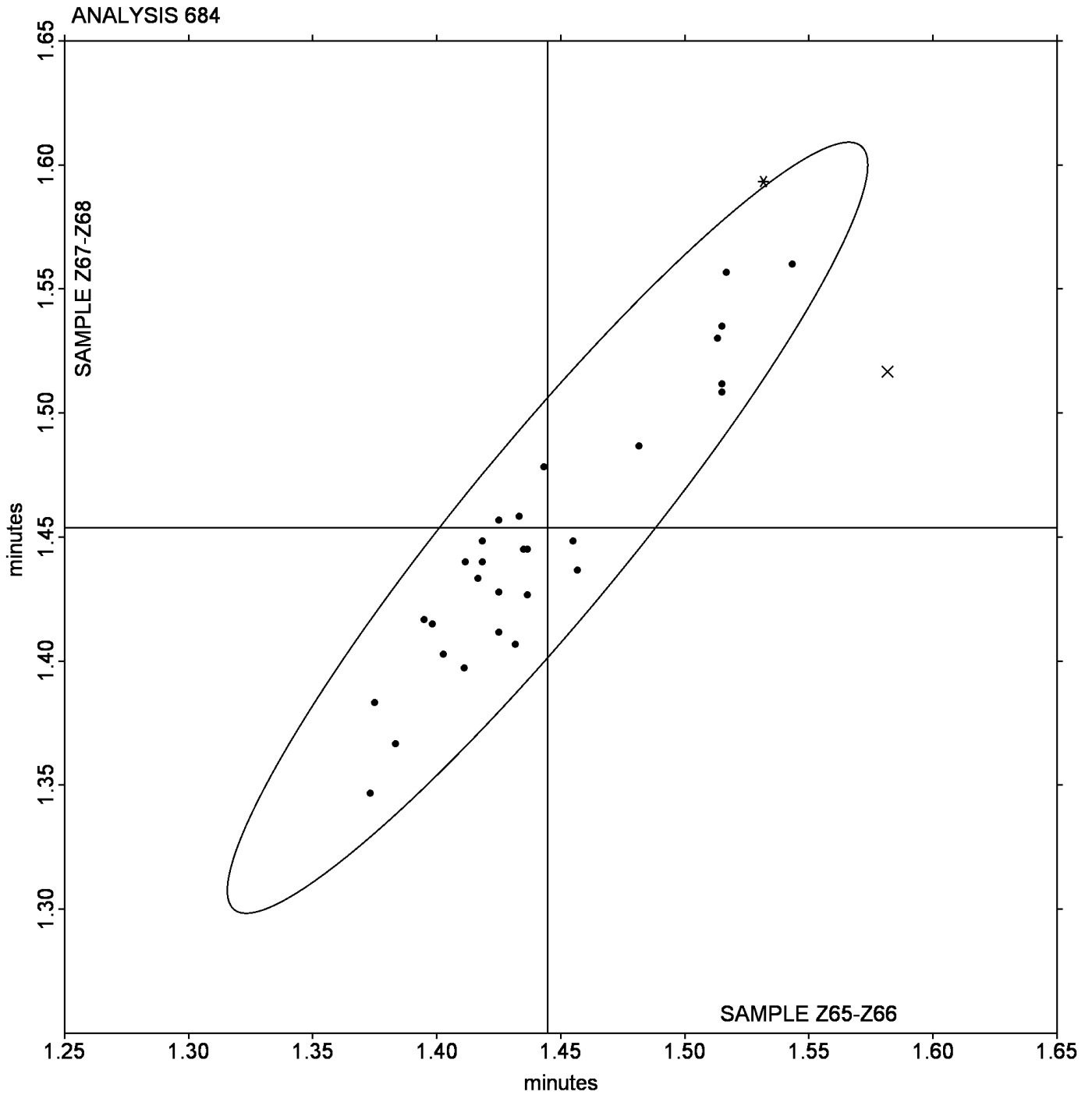
WMH1SN (X) - Inconsistency in testing between Sample sets. Data for Sample set Z65-Z67 are high.

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample Z65-Z66 = 1.4446 minutes

Grand Mean Sample Z67-Z68 = 1.4538 minutes



Rubber Interlaboratory Testing Program

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1GQMTB		1.350	-0.003	-0.03	1.344	-0.024	-0.18	MC
1HHMH1		1.365	0.012	0.09	1.390	0.022	0.17	MC
1W6KZG	*	0.997	-0.356	-2.87	0.978	-0.390	-2.97	MC
28VQH1		1.472	0.118	0.96	1.490	0.122	0.93	MC
4KYRAV		1.323	-0.030	-0.24	1.352	-0.017	-0.13	MC
4MY3HF		1.303	-0.051	-0.41	1.294	-0.074	-0.56	MC
53FCBA		1.338	-0.015	-0.12	1.368	0.000	0.00	MC
6P8QQ6	X	1.475	0.122	0.98	1.582	0.213	1.63	MC
8QAH44		1.238	-0.115	-0.93	1.277	-0.092	-0.70	MC
9RP6H2		1.438	0.085	0.69	1.453	0.085	0.65	MC
9V4M1T		1.358	0.005	0.04	1.368	0.000	0.00	MC
AHGVZ3		1.547	0.193	1.56	1.587	0.218	1.66	TP
ATK54M		1.463	0.110	0.89	1.500	0.132	1.00	MC
CFERAK	X	1.910	0.557	4.49	1.967	0.598	4.56	MD
CZL5JL		1.132	-0.222	-1.79	1.133	-0.235	-1.79	MP
DHRZKB		1.380	0.027	0.22	1.387	0.018	0.14	MC
EFFY1J		1.332	-0.022	-0.17	1.323	-0.045	-0.34	MC
FACPXH		1.345	-0.008	-0.07	1.360	-0.008	-0.06	MD
GT8J2T		1.275	-0.078	-0.63	1.275	-0.093	-0.71	MC
H499MD		1.198	-0.155	-1.25	1.177	-0.192	-1.46	MC
HV5LXS		1.445	0.092	0.74	1.460	0.092	0.70	XX
J6EQF8		1.207	-0.147	-1.18	1.227	-0.142	-1.08	MC
JL62SY		1.417	0.063	0.51	1.436	0.068	0.52	MC
KAYXQ8		1.347	-0.007	-0.05	1.387	0.018	0.14	XX
KSGYF4		1.412	0.058	0.47	1.430	0.062	0.47	MC
KUWWH		1.357	0.003	0.03	1.393	0.025	0.19	MC
KVB5ZF		1.190	-0.163	-1.32	1.210	-0.158	-1.21	MC
LPD8VV		1.552	0.198	1.60	1.557	0.188	1.44	MC
MJTX54		1.147	-0.207	-1.67	1.167	-0.202	-1.54	MC
P7KKJ3		1.400	0.047	0.38	1.397	0.028	0.22	MD
PK47G2		1.485	0.132	1.06	1.502	0.133	1.02	MC
PQ71RH		1.547	0.193	1.56	1.573	0.205	1.56	MC
PRUGYS		1.523	0.170	1.37	1.548	0.180	1.37	TP
QG55DC		1.372	0.018	0.15	1.375	0.007	0.05	MC
QH66AW	X	1.555	0.202	1.63	1.472	0.103	0.79	MC

**Rubber Interlaboratory Testing Program
Analysis 685**

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
U9LSSF		1.352	-0.002	-0.01	1.372	0.003	0.03	MC
VM9GHS		1.398	0.045	0.36	1.415	0.047	0.36	MC
VWL5UC		1.420	0.067	0.54	1.450	0.082	0.62	MD
WYA97M	X	1.397	0.043	0.35	1.353	-0.015	-0.11	MD
ZGY3JQ		1.297	-0.057	-0.46	1.302	-0.067	-0.51	MC

Summary Statistics	
Grand Means	
1.3533 minutes	1.3682 minutes
Std Dev Btwn Labs	
0.1239 minutes	0.1313 minutes
Statistics based on 36 of 40 reporting participants	

Samples Z65-Z66: EPDM compound, batch #1 & Z67-Z68: EPDM compound, batch #2

Comments on assigned Data Flags for Test #685

6P8QQ6 (X) - Inconsistency in testing between Sample sets.

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

QH66AW (X) - Inconsistency in testing between Sample sets.

WYA97M (X) - Inconsistency in testing between Sample sets. Also inconsistent in testing within Sample set Z65.

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

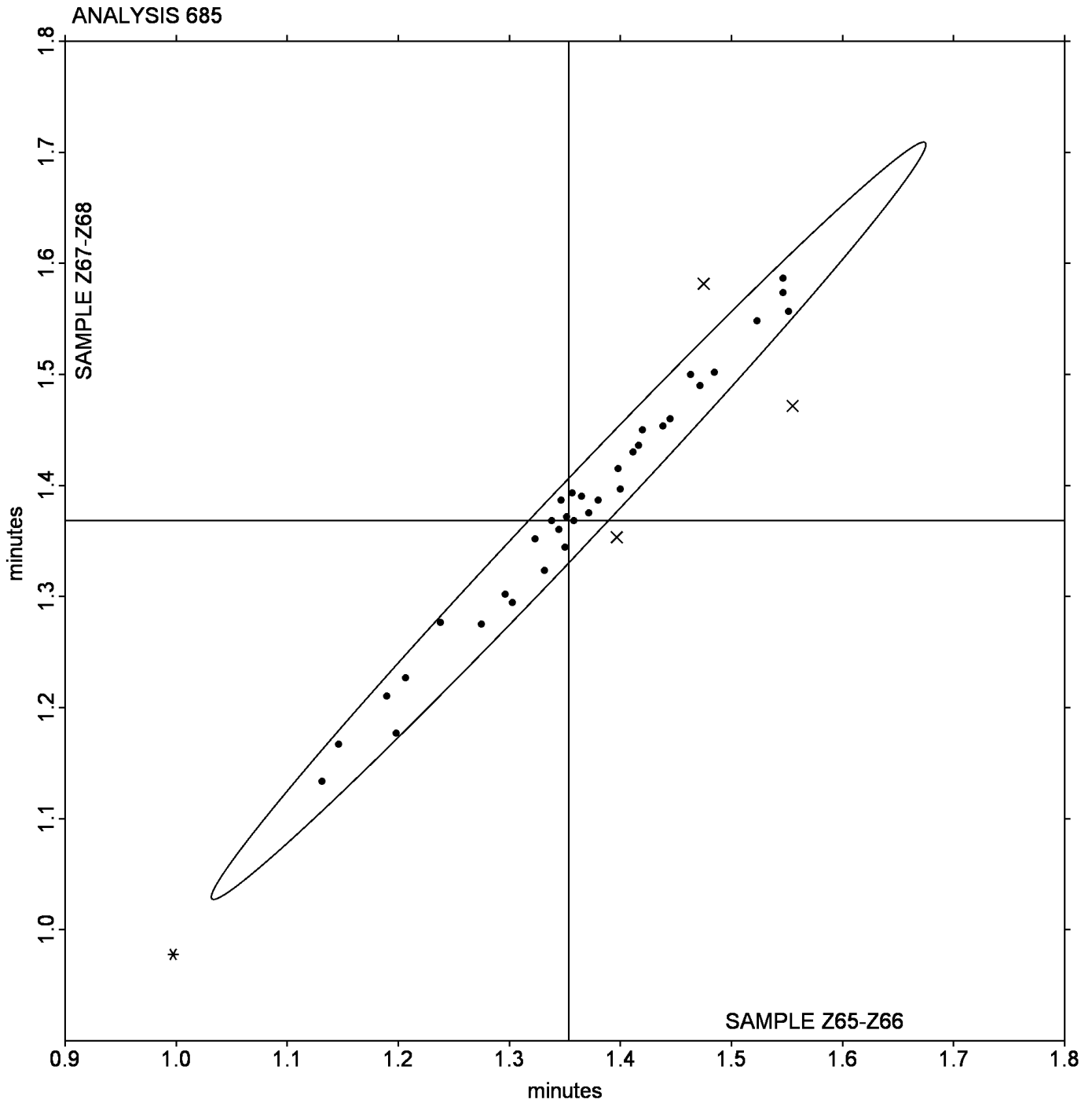
(XX) Instrument model not specified by lab

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

Grand Mean Sample Z65-Z66 = 1.3533 minutes

Grand Mean Sample Z67-Z68 = 1.3682 minutes



Rubber Interlaboratory Testing Program

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1M9YAB		4.423	-0.022	-0.12	4.387	-0.007	-0.04	TP
2V7TB9	X	3.758	-0.687	-3.71	3.850	-0.544	-2.77	MC
3FMSVV		4.493	0.048	0.26	4.390	-0.004	-0.02	MP
3KC69Q		4.325	-0.121	-0.65	4.372	-0.022	-0.11	MC
3RW9E6		4.517	0.071	0.38	4.395	0.001	0.01	MC
4FFTA6		4.320	-0.126	-0.68	4.177	-0.217	-1.11	MC
4WRGL		4.507	0.061	0.33	4.497	0.103	0.53	MC
6LD9SQ		4.588	0.143	0.77	4.642	0.248	1.26	MC
6U5AR9		4.357	-0.089	-0.48	4.318	-0.075	-0.38	MC
7AFTNM		4.425	-0.021	-0.11	4.455	0.061	0.31	XX
7PQ4LN		4.537	0.091	0.49	4.453	0.060	0.30	MC
7VZKQP		4.665	0.219	1.19	4.558	0.165	0.84	MC
9YMPX1		4.470	0.024	0.13	4.403	0.009	0.05	MC
B573ZG		4.305	-0.141	-0.76	4.310	-0.084	-0.43	MC
BA4H2Q		4.390	-0.056	-0.30	4.320	-0.074	-0.38	MC
BM281Q		4.582	0.136	0.74	4.433	0.040	0.20	MC
CBYDC5		4.342	-0.104	-0.56	4.170	-0.224	-1.14	MC
EHWS4K		4.552	0.106	0.57	4.505	0.111	0.57	MC
FC5PWR		4.270	-0.176	-0.95	4.173	-0.220	-1.12	MD
FT4WMK		4.237	-0.209	-1.13	4.287	-0.107	-0.55	MC
GKS23B		4.047	-0.399	-2.16	4.082	-0.312	-1.59	MC
H3CT9G	*	4.707	0.261	1.41	4.443	0.050	0.25	MC
H99VY1		4.383	-0.062	-0.34	4.289	-0.105	-0.53	MC
J3GLVV		4.163	-0.282	-1.53	4.060	-0.334	-1.70	TP
K7NMD5		4.560	0.114	0.62	4.543	0.150	0.76	MC
KN1P3L		4.547	0.102	0.55	4.558	0.165	0.84	MC
LJ6WU4		4.575	0.129	0.70	4.507	0.113	0.58	MC
PPSH6L		4.632	0.186	1.01	4.560	0.166	0.85	MC
R4LTQ9		4.087	-0.359	-1.94	4.063	-0.330	-1.68	MD
RMUAA1		4.610	0.164	0.89	4.592	0.198	1.01	MD
RUXFQV	*	4.882	0.436	2.36	4.937	0.543	2.77	MD
T6QQHM		4.428	-0.017	-0.09	4.382	-0.012	-0.06	MC
TNWRRF		4.678	0.233	1.26	4.672	0.278	1.42	MC
TUGQAP	X	5.217	0.771	4.17	5.200	0.806	4.11	TP
VFHGUY		4.568	0.123	0.66	4.598	0.205	1.04	MC

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VXR6CR		4.633	0.188	1.02	4.555	0.161	0.82	MC
X9JNPW		4.532	0.086	0.47	4.547	0.153	0.78	MD
XR9R96		4.090	-0.356	-1.92	4.112	-0.282	-1.44	MC
Y6NGRH		4.417	-0.029	-0.16	4.389	-0.005	-0.02	MC
YZGNW		4.280	-0.166	-0.89	4.085	-0.309	-1.57	MC
ZCZSNQ		4.253	-0.192	-1.04	4.137	-0.257	-1.31	MC

Summary Statistics

Grand Means

4.4455 minutes

4.3937 minutes

Std Dev Btwn Labs

0.1850 minutes

0.1961 minutes

Statistics based on 39 of 41 reporting participants

Samples Z65-Z66: EPDM compound, batch #1 & Z67-Z68: EPDM compound, batch #2

Comments on assigned Data Flags for Test #686

2V7TB9 (X) - Data for all Samples are low.

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

Rubber Interlaboratory Testing Program

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
18WHN8		7.892	0.336	1.14	7.863	0.336	1.13	MC
2D6W1S		7.520	-0.036	-0.12	7.520	-0.007	-0.02	MD
2R7QB1		7.503	-0.052	-0.18	7.595	0.068	0.23	MC
521ZKU		7.250	-0.306	-1.04	7.115	-0.412	-1.39	MP
56FKEM		7.687	0.131	0.44	7.625	0.098	0.33	MD
5KJUKU		7.458	-0.097	-0.33	7.297	-0.230	-0.78	MD
5XAFSA		7.367	-0.189	-0.64	7.448	-0.079	-0.26	MC
659X3L		6.862	-0.694	-2.35	6.930	-0.597	-2.01	MC
6U71YD		7.547	-0.008	-0.03	7.508	-0.019	-0.06	MC
7M6LNG		7.475	-0.081	-0.27	7.463	-0.064	-0.21	MC
7SLW9C		7.395	-0.161	-0.54	7.290	-0.237	-0.80	MC
7W6SD4	*	6.918	-0.637	-2.16	7.077	-0.450	-1.52	MC
85377N		7.870	0.314	1.06	8.035	0.508	1.71	MC
8KMNRS		7.717	0.161	0.55	7.692	0.165	0.55	MC
9FGJ2W		7.483	-0.072	-0.24	7.597	0.070	0.24	MC
9SEHVN		7.545	-0.011	-0.04	7.597	0.070	0.23	MC
B3EJ44		6.968	-0.587	-1.99	6.937	-0.590	-1.99	TP
BMURN		7.978	0.423	1.43	7.937	0.410	1.38	MC
DDS7B8		7.553	-0.002	-0.01	7.307	-0.220	-0.74	MC
E4XLFU		7.662	0.106	0.36	7.745	0.218	0.73	MC
EUJ1GC		7.213	-0.342	-1.16	7.215	-0.312	-1.05	MC
FKLBS4		7.492	-0.064	-0.22	7.322	-0.205	-0.69	MC
G3PKUS		7.400	-0.156	-0.53	7.293	-0.234	-0.79	MC
HFBZX7		7.570	0.014	0.05	7.705	0.178	0.60	XX
JPFJDT		7.420	-0.136	-0.46	7.338	-0.189	-0.63	MC
K8ZBTA		7.567	0.011	0.04	7.627	0.100	0.34	MC
KGFD75		7.587	0.031	0.10	7.668	0.141	0.48	MC
KPBCHR		7.315	-0.241	-0.82	7.123	-0.404	-1.36	MC
MNKPRN		7.603	0.047	0.16	7.553	0.026	0.09	MC
N4PN83		7.428	-0.127	-0.43	7.485	-0.042	-0.14	MC
Q95WUS	*	8.427	0.871	2.95	8.390	0.863	2.90	TP
QJHUUV		7.948	0.393	1.33	7.703	0.176	0.59	MC
RC9PN4		7.492	-0.064	-0.22	7.355	-0.172	-0.58	MC
RK5U3D		7.561	0.005	0.02	7.500	-0.027	-0.09	MC
S7BU1M		7.502	-0.054	-0.18	7.425	-0.102	-0.34	MD

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
U1ZCGY		7.598	0.043	0.14	7.572	0.045	0.15	MC
U4YTT7		7.887	0.331	1.12	7.895	0.368	1.24	MC
WMZ4D3		7.807	0.251	0.85	7.743	0.216	0.73	MC
X11LTD		7.928	0.373	1.26	7.907	0.380	1.28	TP
YC8XCL		7.460	-0.096	-0.32	7.470	-0.057	-0.19	MD
ZLRA2Y		7.932	0.376	1.27	7.740	0.213	0.72	MC

Summary Statistics

Grand Means

7.5558 minutes

7.5270 minutes

Std Dev Btwn Labs

0.2951 minutes

0.2972 minutes

Statistics based on 41 of 41 reporting participants

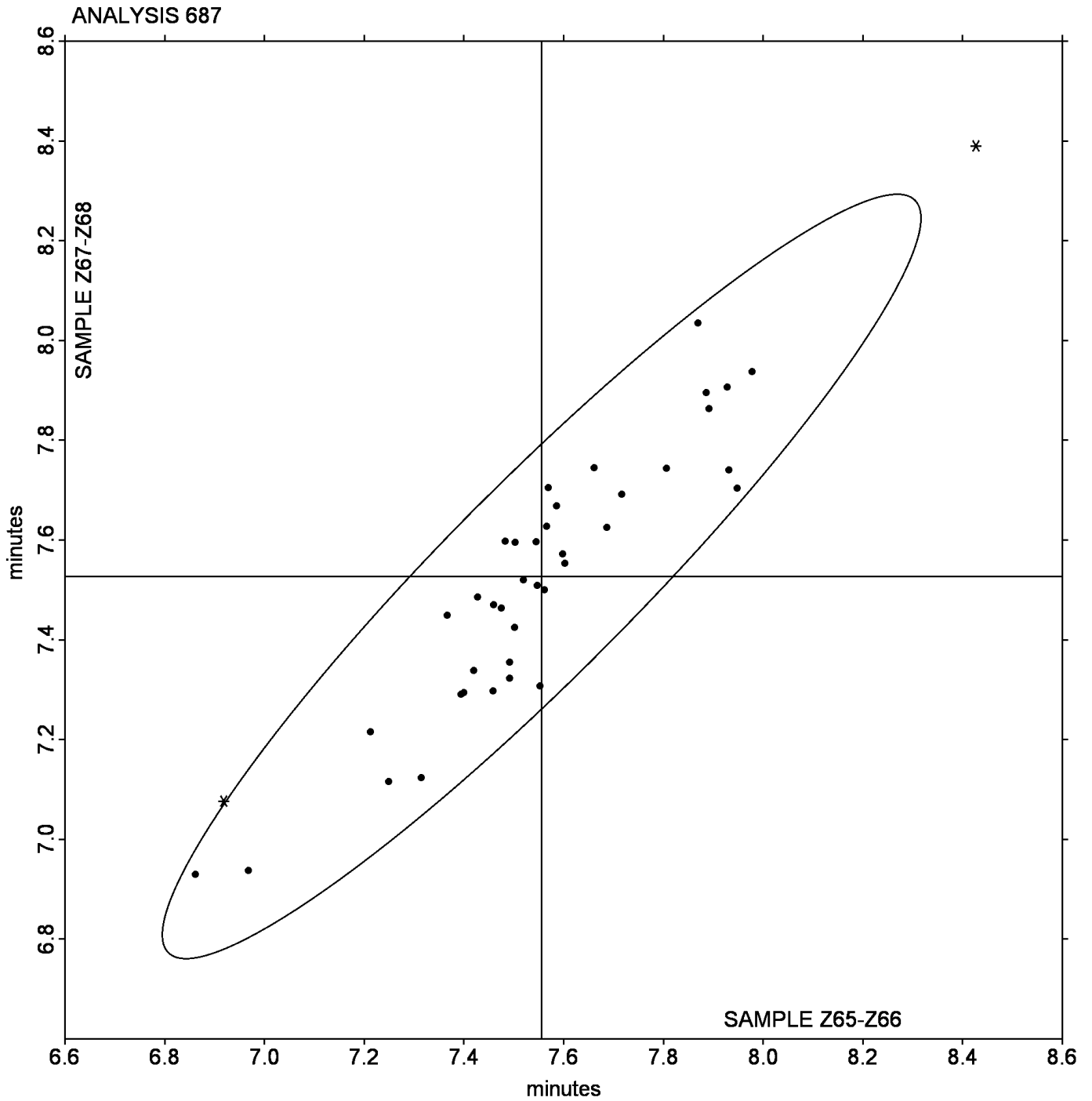
Samples Z65-Z66: EPDM compound, batch #1 & Z67-Z68: EPDM compound, batch #2

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Z65-Z66 = 7.5558 minutes

Grand Mean Sample Z67-Z68 = 7.5270 minutes



Rubber Interlaboratory Testing Program

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1EHBUT		2.041	-0.562	-1.40	2.216	-0.555	-1.41	MD
1JL5WG		2.230	-0.373	-0.93	2.445	-0.326	-0.83	MC
2URR88		2.303	-0.300	-0.75	2.475	-0.296	-0.75	MC
3CZ4DP		2.237	-0.367	-0.91	2.403	-0.368	-0.93	MC
3RLF35		2.512	-0.092	-0.23	2.645	-0.126	-0.32	MC
3XR32N		2.312	-0.292	-0.73	2.457	-0.314	-0.80	XX
4336TN		2.257	-0.346	-0.86	2.491	-0.280	-0.71	MC
49Z7MM		3.174	0.571	1.42	3.381	0.610	1.55	MC
6QTD9E		2.390	-0.213	-0.53	2.574	-0.197	-0.50	MC
6T8F54		2.352	-0.252	-0.63	2.635	-0.136	-0.35	MC
7JBL5T		2.523	-0.080	-0.20	2.673	-0.098	-0.25	MC
9BVFV6		3.107	0.503	1.26	3.218	0.447	1.14	TP
9TEA8N		3.020	0.417	1.04	3.228	0.457	1.16	MC
ASLQ9V		2.760	0.157	0.39	2.957	0.186	0.47	MC
C5JKGM	X	4.837	2.234	5.57	5.065	2.294	5.82	MD
C5SPKK		2.970	0.367	0.91	3.100	0.329	0.84	MC
DP5R4Q	*	3.607	1.003	2.50	3.655	0.884	2.25	MC
E8JXLW		2.850	0.247	0.62	3.023	0.252	0.64	MC
EHXFSQ		2.972	0.368	0.92	3.120	0.349	0.89	MC
FL8YVB		2.330	-0.273	-0.68	2.480	-0.291	-0.74	MC
FPP3AF	*	2.212	-0.392	-0.98	2.255	-0.516	-1.31	MC
FS3QZD		2.312	-0.292	-0.73	2.440	-0.331	-0.84	MC
GWYAK		2.940	0.337	0.84	3.205	0.434	1.10	MC
HFMKX	X	3.378	0.775	1.93	3.785	1.014	2.57	MC
HUN84H		2.573	-0.030	-0.07	2.690	-0.081	-0.21	MC
JXRQ8A		3.252	0.648	1.62	3.347	0.576	1.46	MC
K27A1X		2.237	-0.367	-0.91	2.405	-0.366	-0.93	TP
KJ87C2		2.465	-0.138	-0.34	2.662	-0.109	-0.28	MC
LUDW4	X	3.823	1.220	3.04	3.797	1.026	2.60	TP
M7AW56		2.108	-0.496	-1.24	2.313	-0.458	-1.16	MD
MUQJVV		3.042	0.439	1.09	3.264	0.493	1.25	MC
NP3AM3		2.369	-0.234	-0.58	2.574	-0.197	-0.50	MC
RBF13N		3.250	0.647	1.61	3.462	0.691	1.75	MD
S55993		2.244	-0.360	-0.90	2.450	-0.321	-0.81	MP
T8ZHW9		2.590	-0.013	-0.03	2.762	-0.009	-0.02	MC

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
UN4DEU		2.418	-0.185	-0.46	2.573	-0.198	-0.50	MC
VLDMP9		2.385	-0.218	-0.54	2.505	-0.266	-0.68	MC
WK7BZB	X	3.962	1.358	3.39	3.808	1.037	2.63	MC
WKTRH9		3.203	0.600	1.50	3.343	0.572	1.45	MC
XVT3S1		2.600	-0.003	-0.01	2.715	-0.056	-0.14	MC
YA45K8		2.175	-0.428	-1.07	2.384	-0.387	-0.98	MD

Grand Means		Summary Statistics	
	2.6032 lbf.in		2.7710 lbf.in
Std Dev Btwn Labs			0.3939 lbf.in
	0.4011 lbf.in	Statistics based on 37 of 41 reporting participants	

Grand Means		Summary Statistics in SI Units	
	2.9412 dN.m		3.1308 dN.m
Std Dev Btwn Labs			0.4450 dN.m
	0.4532 dN.m	Statistics based on 37 of 41 reporting participants	

Samples Z65-Z66: EPDM compound, batch #1 & Z67-Z68: EPDM compound, batch #2

Comments on assigned Data Flags for Test #688

C5JKGM (X) - Data for all Samples are high.

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

LUDW4M (X) - Inconsistency in testing between Sample sets. Data for Sample set Z65-Z66 are high and inconsistent in testing within Sample set Z67-Z68.

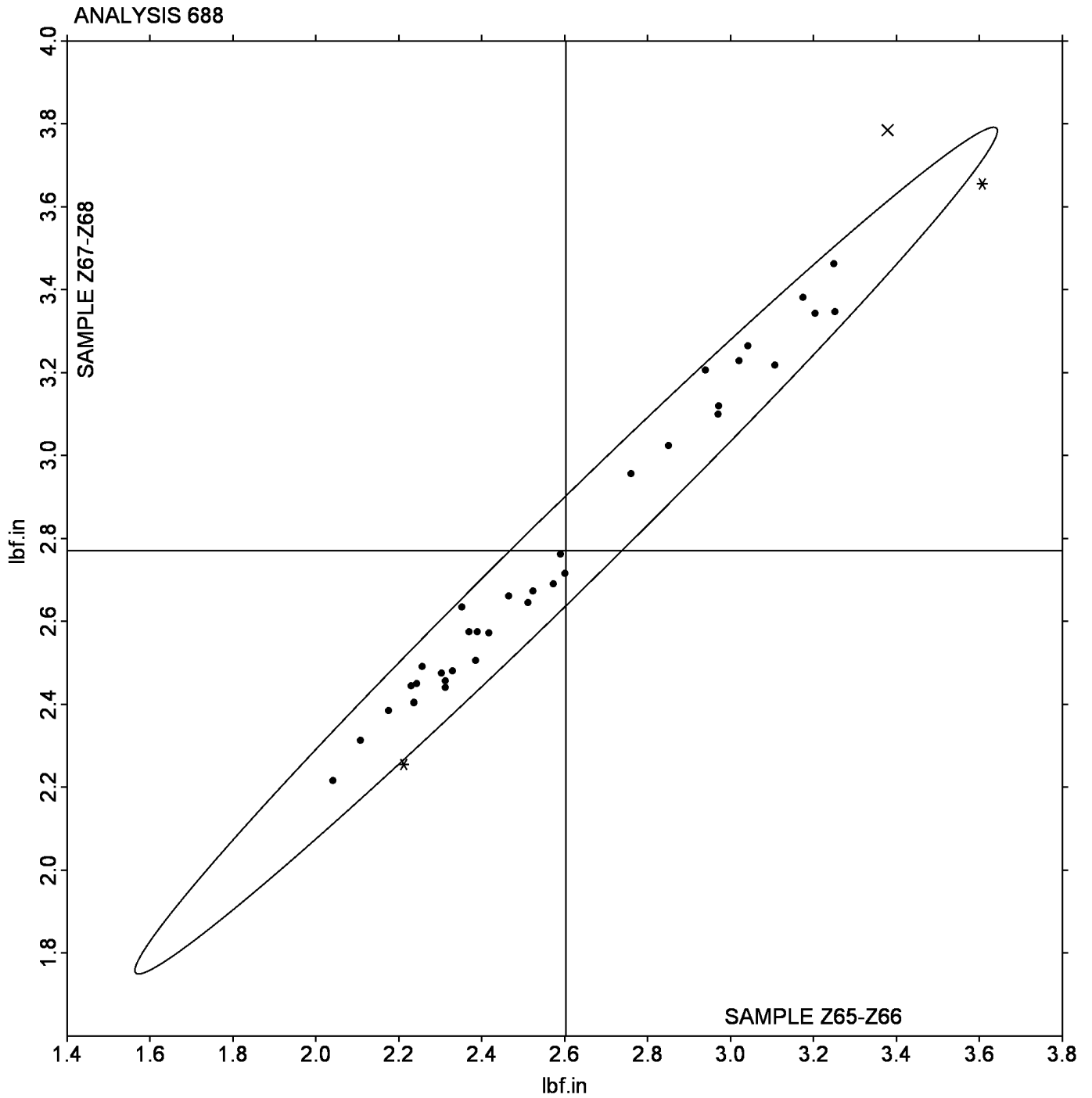
WK7BZB (X) - Inconsistency in testing between Sample sets.

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Z65-Z66 = 2.6032 lbf.in

Grand Mean Sample Z67-Z68 = 2.7710 lbf.in



Rubber Interlaboratory Testing Program

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1KLMB6		13.36	0.13	0.22	13.61	0.34	0.58	MC
1YRFBA		13.37	0.14	0.24	13.44	0.17	0.29	MC
2Q7UFW		13.70	0.47	0.81	13.80	0.53	0.91	MC
4P88V4		13.66	0.43	0.73	13.41	0.13	0.23	TP
5XN1G1		13.02	-0.21	-0.35	13.05	-0.23	-0.39	MC
8E48AD		11.94	-1.28	-2.20	11.87	-1.40	-2.39	TP
8G5CRE		13.61	0.38	0.65	13.73	0.46	0.78	MC
96TN52		13.37	0.14	0.24	13.45	0.18	0.31	MC
9PFYCN		14.59	1.36	2.33	14.73	1.45	2.48	MC
ALKUS2		13.75	0.53	0.90	13.62	0.35	0.60	MC
BC3E3K		13.30	0.07	0.12	13.29	0.01	0.02	MC
BCE38E		13.12	-0.11	-0.19	13.14	-0.13	-0.23	XX
BNZH4U		13.83	0.60	1.03	13.79	0.52	0.88	MC
CE3WQD		12.80	-0.43	-0.73	13.01	-0.26	-0.45	MC
CLN7HA		12.45	-0.78	-1.33	12.57	-0.70	-1.20	MD
D24M6J		13.67	0.44	0.75	13.74	0.47	0.80	MC
D9EM22		13.33	0.10	0.17	13.65	0.37	0.64	MC
DGMC97		12.96	-0.26	-0.45	13.01	-0.26	-0.45	MC
E5L47F		13.74	0.51	0.88	13.79	0.51	0.88	MP
F4XV2Y		12.88	-0.35	-0.59	13.21	-0.06	-0.11	MD
HDTY3Y		12.92	-0.31	-0.52	13.01	-0.27	-0.46	MC
HVF6BP		13.97	0.75	1.28	13.79	0.51	0.88	MC
KXJ7E5		13.44	0.21	0.36	13.48	0.21	0.35	MC
L2QP3D		13.51	0.28	0.48	13.55	0.28	0.48	MC
L43FR8		13.32	0.09	0.15	13.48	0.21	0.36	MC
LRFTKA		12.90	-0.33	-0.56	12.92	-0.36	-0.61	MC
M5T676		12.80	-0.43	-0.73	12.74	-0.53	-0.91	MC
N3KFH3		11.91	-1.32	-2.26	11.94	-1.33	-2.28	MC
N3R6CF		12.96	-0.26	-0.45	12.88	-0.39	-0.67	MC
N6YJ38		13.72	0.50	0.85	13.76	0.49	0.83	MD
P8JR4F		12.73	-0.50	-0.85	12.82	-0.45	-0.77	MC
S3SQ5K		12.67	-0.56	-0.95	12.75	-0.53	-0.90	MC
SHBBNH		13.08	-0.15	-0.26	13.02	-0.26	-0.44	MC
TKWGQ1		12.43	-0.80	-1.37	12.48	-0.79	-1.35	MD
TWGHZ		13.94	0.72	1.22	13.92	0.65	1.11	MC

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Z65-Z66			Sample Z67-Z68			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
UNEYLR		13.51	0.28	0.48	13.55	0.28	0.48	MC
UTWKX3		13.43	0.20	0.35	13.32	0.05	0.08	MC
UU7JSB	X	12.52	-0.71	-1.21	13.42	0.14	0.25	MD
V4G2JN		12.17	-1.06	-1.81	12.23	-1.05	-1.79	TP
VQZ3V9		14.02	0.80	1.36	14.12	0.84	1.44	MC
WWKKS	X	13.62	0.39	0.67	14.27	0.99	1.70	MC

Summary Statistics

Grand Means

13.227 lbf.in

13.273 lbf.in

Std Dev Btwn Labs

0.585 lbf.in

0.585 lbf.in

Statistics based on 39 of 41 reporting participants

Summary Statistics in SI Units

Grand Means

14.945 dN.m

14.996 dN.m

Std Dev Btwn Labs

0.660 dN.m

0.661 dN.m

Statistics based on 39 of 41 reporting participants

Samples Z65-Z66: EPDM compound, batch #1 & Z67-Z68: EPDM compound, batch #2

Comments on assigned Data Flags for Test #689

UU7JSB (X) - Inconsistency in testing between Sample sets. Data for Sample Z65 are low.

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

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Z65-Z66 = 13.227 lbf.in

Grand Mean Sample Z67-Z68 = 13.273 lbf.in

