

Rubber Interlaboratory Testing Program

Summary Report #182- 4th Qtr 2014

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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. Labs from the U.S., as well as more than 80 countries, currently participate in CTS programs.

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

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

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

Common Problems Highlighted in Footnotes

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

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
24GMGD		3,405.0	141.5	1.09	3,405.0	123.0	0.94	ZZ
2BEEP8		3,190.0	-73.5	-0.57	3,207.0	-75.0	-0.58	ZZ
2JMVD7	X	3,653.0	389.5	3.01	3,495.0	213.0	1.63	ZZ
3EPRYT		3,267.9	4.4	0.03	3,281.2	-0.8	-0.01	ZZ
3RFNX6	X	2,925.2	-338.3	-2.61	2,853.4	-428.6	-3.29	ZZ
4HMQV4		3,401.5	138.0	1.07	3,404.0	122.0	0.94	ZZ
4RV6VJ		3,353.0	89.5	0.69	3,457.5	175.5	1.35	ZZ
4U3FT9		3,031.5	-232.0	-1.79	3,125.5	-156.5	-1.20	ZZ
4VAUZE		3,282.0	18.5	0.14	3,243.5	-38.5	-0.30	ZZ
6H3DJB	*	3,638.0	374.4	2.89	3,568.4	286.3	2.20	ZZ
6TZEZL		3,058.0	-205.5	-1.59	3,094.0	-188.0	-1.44	ZZ
73LTK4		2,998.0	-265.5	-2.05	2,976.5	-305.5	-2.34	ZZ
7BZJ8V		3,172.0	-91.5	-0.71	3,154.5	-127.5	-0.98	ZZ
7GKL97		3,292.5	29.0	0.22	3,268.0	-14.0	-0.11	ZZ
8BUTBW		3,325.5	62.0	0.48	3,292.0	10.0	0.08	ZZ
8DZ82B		3,087.0	-176.5	-1.36	3,113.0	-169.0	-1.30	ZZ
8FNPX3		3,136.0	-127.5	-0.98	3,179.0	-103.0	-0.79	ZZ
8M72C4		3,252.0	-11.5	-0.09	3,187.0	-95.0	-0.73	ZZ
8MNZD8		3,100.0	-163.5	-1.26	3,240.0	-42.0	-0.32	ZZ
8NGXLE		3,368.7	105.1	0.81	3,381.2	99.2	0.76	ZZ
92N7ZB		3,346.0	82.5	0.64	3,283.5	1.5	0.01	ZZ
94ATTY		3,259.3	-4.3	-0.03	3,234.1	-48.0	-0.37	ZZ
964GA9		3,273.9	10.4	0.08	3,256.7	-25.3	-0.19	ZZ
9GXWY		3,290.9	27.3	0.21	3,274.4	-7.6	-0.06	ZZ
9QMJ9E		3,287.5	24.0	0.19	3,318.0	36.0	0.28	ZZ
9WBFG3		3,170.6	-93.0	-0.72	3,107.5	-174.6	-1.34	ZZ
A38KZ6		3,233.8	-29.7	-0.23	3,239.3	-42.7	-0.33	ZZ
ABPVD7	*	3,592.6	329.1	2.54	3,577.4	295.4	2.27	ZZ
ADA3FE		3,359.9	96.4	0.74	3,335.5	53.4	0.41	ZZ
AE4QU4		3,256.1	-7.4	-0.06	3,227.1	-54.9	-0.42	ZZ
AFY8A8		3,460.6	197.1	1.52	3,521.5	239.5	1.84	ZZ
AH36GT		3,178.5	-85.0	-0.66	3,146.0	-136.0	-1.04	ZZ
AKCRE8		3,096.6	-166.9	-1.29	3,038.6	-243.5	-1.87	ZZ
AKRBY6		3,180.0	-83.5	-0.64	3,167.0	-115.0	-0.88	ZZ
ARD4DP		3,275.7	12.2	0.09	3,301.8	19.8	0.15	ZZ
B38X6D		3,408.6	145.1	1.12	3,372.8	90.8	0.70	ZZ
B4KEHQ		3,415.7	152.1	1.17	3,430.2	148.1	1.14	ZZ
B6VDEK		3,431.6	168.1	1.30	3,485.3	203.3	1.56	ZZ
BK7ZZV		3,135.6	-127.9	-0.99	3,293.0	11.0	0.08	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CBYU87		3,429.3	165.8	1.28	3,456.4	174.4	1.34	ZZ
CEF3TK		3,330.4	66.8	0.52	3,478.7	196.6	1.51	ZZ
CKNH39		3,266.3	2.8	0.02	3,268.5	-13.6	-0.10	ZZ
CXW4P8		3,246.7	-16.8	-0.13	3,238.0	-44.0	-0.34	ZZ
D3GTGV		3,258.3	-5.2	-0.04	3,332.3	50.2	0.39	ZZ
DRMB9G		3,169.5	-94.0	-0.73	3,290.0	8.0	0.06	ZZ
DRZYA9		3,219.0	-44.5	-0.34	3,098.0	-184.0	-1.41	ZZ
DYJ69Z		3,357.7	94.1	0.73	3,335.9	53.9	0.41	ZZ
EERHUQ		3,383.8	120.2	0.93	3,477.3	195.3	1.50	ZZ
EJ6JXA		3,410.5	146.9	1.13	3,355.3	73.3	0.56	ZZ
EJJPFK		3,364.9	101.4	0.78	3,414.2	132.2	1.01	ZZ
ELAT9R		3,339.7	76.1	0.59	3,381.9	99.9	0.77	ZZ
EM4GN2		3,438.0	174.5	1.35	3,367.0	85.0	0.65	ZZ
ENFEWR		3,342.5	79.0	0.61	3,383.5	101.5	0.78	ZZ
ERFMZ2		3,112.2	-151.4	-1.17	3,116.1	-166.0	-1.27	ZZ
F47QRY		3,170.0	-93.5	-0.72	3,100.0	-182.0	-1.40	ZZ
F6H99J		3,253.5	-10.0	-0.08	3,323.0	41.0	0.31	ZZ
F8KEHX		3,422.5	159.0	1.23	3,441.5	159.5	1.22	ZZ
G4KFQ6		3,228.5	-35.0	-0.27	3,264.5	-17.5	-0.13	ZZ
GUWLE9	X	2,984.9	-278.6	-2.15	3,193.8	-88.3	-0.68	ZZ
GWK3N		3,099.5	-164.0	-1.27	3,240.9	-41.1	-0.32	ZZ
GZZQ7R		3,390.5	127.0	0.98	3,417.5	135.5	1.04	ZZ
H42WLX		3,095.0	-168.5	-1.30	3,130.0	-152.0	-1.17	ZZ
H4GF4A		3,118.0	-145.5	-1.12	3,111.5	-170.5	-1.31	ZZ
HAPLZF		3,079.1	-184.5	-1.42	3,081.7	-200.4	-1.54	ZZ
HL24FQ		3,153.1	-110.4	-0.85	3,182.6	-99.5	-0.76	ZZ
HTHETR		3,182.0	-81.5	-0.63	3,176.5	-105.5	-0.81	ZZ
K49WCP		3,273.5	10.0	0.08	3,199.0	-83.0	-0.64	ZZ
KPUK6P		3,341.0	77.5	0.60	3,274.5	-7.5	-0.06	ZZ
KTT6QZ		3,329.5	66.0	0.51	3,275.5	-6.5	-0.05	ZZ
KVXNV		3,352.0	88.5	0.68	3,334.0	52.0	0.40	ZZ
KYUJAG		3,274.5	11.0	0.08	3,306.0	24.0	0.18	ZZ
L2HDKQ		3,056.0	-207.5	-1.60	3,205.0	-77.0	-0.59	ZZ
L7C6ZZ		3,068.3	-195.2	-1.51	3,203.9	-78.1	-0.60	ZZ
LMV6MP		3,192.9	-70.7	-0.55	3,258.9	-23.2	-0.18	ZZ
MHZRLL		3,269.0	5.5	0.04	3,267.0	-15.0	-0.12	ZZ
MQDMH		3,314.1	50.6	0.39	3,219.9	-62.2	-0.48	ZZ
MQX4XH		3,024.0	-239.5	-1.85	3,053.0	-229.0	-1.76	ZZ
MRAWW		3,431.0	167.5	1.29	3,509.0	227.0	1.74	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MUC28P		3,214.8	-48.7	-0.38	3,155.4	-126.6	-0.97	ZZ
N9U7XJ		3,148.7	-114.8	-0.89	3,177.4	-104.7	-0.80	ZZ
NDAEKX		3,328.0	64.5	0.50	3,419.0	137.0	1.05	ZZ
PWDNVE		3,442.0	178.4	1.38	3,481.9	199.9	1.53	ZZ
Q6228J		3,329.0	65.5	0.51	3,345.0	63.0	0.48	ZZ
QFJDPM		3,406.5	143.0	1.10	3,445.0	163.0	1.25	ZZ
QKEA9M	*	2,904.5	-359.0	-2.77	2,990.0	-292.0	-2.24	ZZ
QTQNUN		3,324.5	61.0	0.47	3,327.0	45.0	0.35	ZZ
REMMT8		3,292.4	28.9	0.22	3,364.9	82.9	0.64	ZZ
RND692		3,102.4	-161.1	-1.24	3,119.1	-163.0	-1.25	ZZ
RYTWVP		3,350.0	86.5	0.67	3,379.0	97.0	0.74	ZZ
TBLTGN		3,345.0	81.5	0.63	3,429.0	147.0	1.13	ZZ
TDAAQ		3,007.0	-256.5	-1.98	3,049.5	-232.5	-1.78	ZZ
TFD22H		3,270.5	7.0	0.05	3,307.5	25.5	0.20	ZZ
TQZYRM		3,175.0	-88.5	-0.68	3,180.0	-102.0	-0.78	ZZ
TTKVAL		3,114.0	-149.5	-1.15	3,272.2	-9.9	-0.08	ZZ
UAPK2C		3,330.4	66.9	0.52	3,344.6	62.6	0.48	ZZ
UPEPA7		3,347.8	84.2	0.65	3,328.8	46.8	0.36	ZZ
UTK7PP		3,428.7	165.2	1.28	3,493.3	211.2	1.62	ZZ
VALBUD		3,465.0	201.5	1.56	3,553.5	271.4	2.08	ZZ
VBVKFH		3,351.0	87.5	0.68	3,405.0	123.0	0.94	ZZ
VGJAVL		3,181.3	-82.3	-0.64	3,259.3	-22.8	-0.17	ZZ
VLBETW	X	1,966.0	-1,297.5	-10.02	2,201.0	-1,081.0	-8.30	ZZ
VMN2BB		3,161.9	-101.7	-0.79	3,140.1	-141.9	-1.09	ZZ
VVLV7N		3,157.5	-106.0	-0.82	3,240.2	-41.9	-0.32	ZZ
VWZZ6M		3,325.0	61.5	0.47	3,381.0	99.0	0.76	ZZ
W8QCTJ		3,345.0	81.5	0.63	3,340.0	58.0	0.44	ZZ
W98DTZ		3,314.1	50.6	0.39	3,248.9	-33.2	-0.25	ZZ
XLPFVP		3,245.5	-18.0	-0.14	3,224.0	-58.0	-0.45	ZZ
Y4ZV7G	X	3,715.0	451.5	3.49	3,787.0	505.0	3.88	ZZ
YHKCE		3,355.5	92.0	0.71	3,312.5	30.5	0.23	ZZ
YRBUW2		3,249.0	-14.5	-0.11	3,238.0	-44.0	-0.34	ZZ
ZCUE6P		3,234.0	-29.5	-0.23	3,358.0	76.0	0.58	ZZ
ZGMFBB		3,254.3	-9.3	-0.07	3,207.3	-74.8	-0.57	ZZ
ZGP93Q		3,162.5	-101.0	-0.78	3,188.0	-94.0	-0.72	ZZ

Analysis 605

Tensile Strength (psi)

Summary Statistics

Grand Means

3,263.52 psi

3,282.03 psi

Std Dev Btwn Labs

129.52 psi

130.31 psi

Statistics based on 108 of 113 reporting participants

Summary Statistics in SI Units

Grand Means

22.501 MPa

22.63 MPa

Std Dev Btwn Labs

0.893 MPa

0.90 MPa

Statistics based on 108 of 113 reporting participants

Samples D41-D42: Polyisoprene compound, batch #1 & D43-D44: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #605

2JMVD7 (X) - Inconsistency in testing between Sample groups. Data for Sample group D41-D42 are high.

3RFNX6 (X) - Inconsistency in testing between Sample groups. Data for Sample group D43-D44 are low.

GUWLE9 (X) - Inconsistency in testing between Sample groups. Inconsistent in testing within Sample group D41-D42.

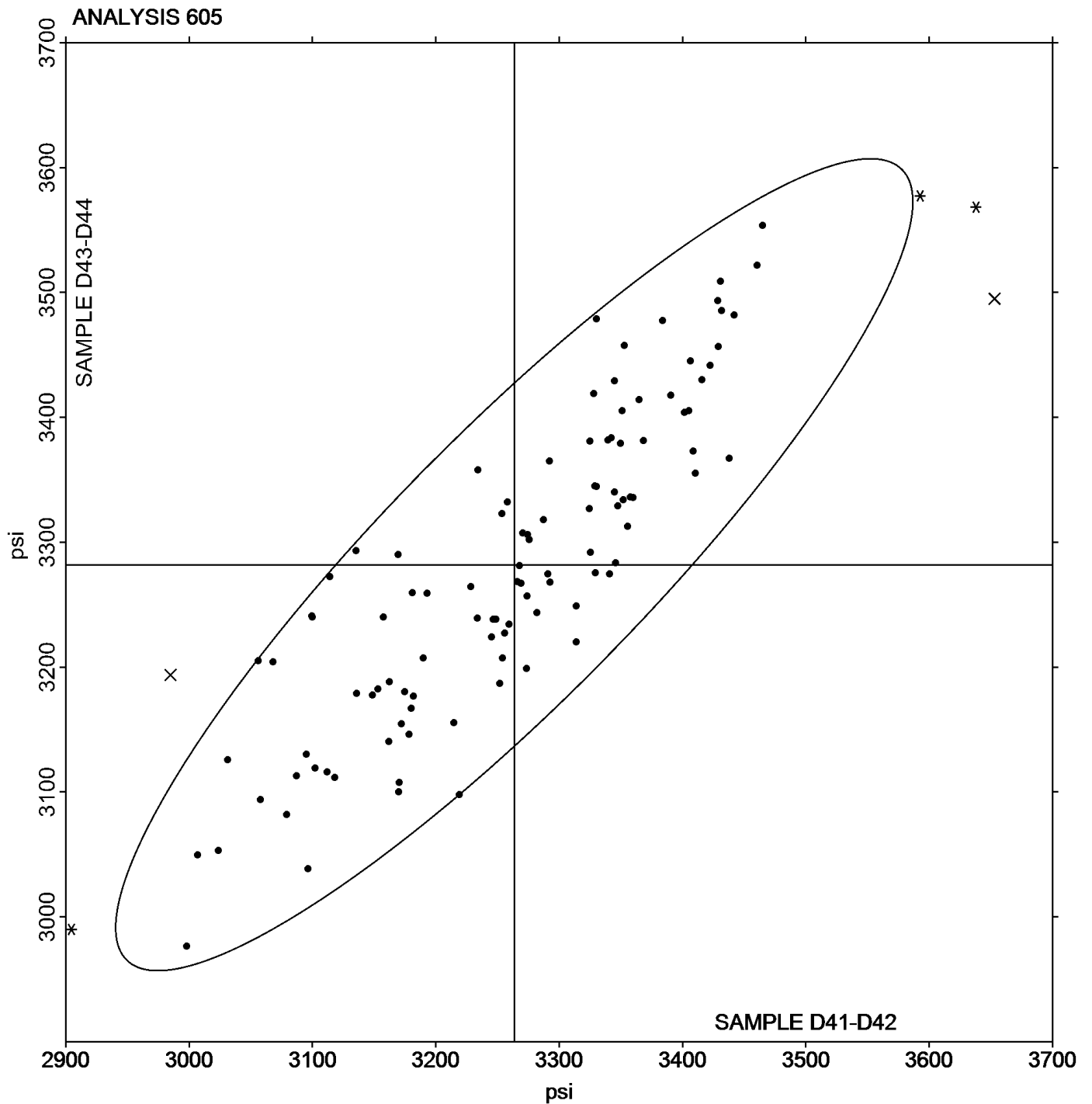
VLBETW (X) - Extreme data.

Y4ZV7G (X) - Data for all Samples are high. Possible systematic error.

Analysis 605
Tensile Strength (psi)

Grand Mean Sample D41-D42 = 3,263.52 psi

Grand Mean Sample D43-D44 = 3,282.03 psi



Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
24GMGD		607.5	1.7	0.05	614.5	25.5	0.80	ZZ
2BEEP8		600.0	-5.8	-0.19	581.0	-8.0	-0.25	ZZ
2JMVD7	*	603.0	-2.8	-0.09	642.0	53.0	1.66	ZZ
3EPRYT		596.0	-9.8	-0.32	577.0	-12.0	-0.37	ZZ
3RFNX6	*	529.9	-75.9	-2.44	506.8	-82.2	-2.58	ZZ
4HMQV4		534.5	-71.3	-2.29	543.5	-45.5	-1.42	ZZ
4RV6VJ	*	673.5	67.7	2.18	619.0	30.0	0.94	ZZ
4U3FT9		551.0	-54.8	-1.76	519.5	-69.5	-2.18	ZZ
4VAUZE		580.0	-25.8	-0.83	556.5	-32.5	-1.02	ZZ
6H3DJB		613.7	7.9	0.25	585.2	-3.7	-0.12	ZZ
6TZEZL		554.5	-51.3	-1.65	549.5	-39.5	-1.24	ZZ
73LTK4	X	698.5	92.7	2.98	704.5	115.5	3.62	ZZ
7BZJ8V		577.0	-28.8	-0.93	537.0	-52.0	-1.63	ZZ
7GKL97		609.5	3.7	0.12	597.5	8.5	0.27	ZZ
8BUTBW		611.5	5.7	0.18	601.5	12.5	0.39	ZZ
8DZ82B		608.5	2.7	0.09	562.5	-26.5	-0.83	ZZ
8FNPX3		570.0	-35.8	-1.15	575.0	-14.0	-0.44	ZZ
8M72C4		598.0	-7.8	-0.25	619.0	30.0	0.94	ZZ
8MNZD8		557.5	-48.3	-1.55	571.5	-17.5	-0.55	ZZ
8NGXLE		605.8	0.0	0.00	590.5	1.5	0.05	ZZ
92N7ZB		642.0	36.2	1.16	606.0	17.0	0.53	ZZ
94ATTY		629.8	24.0	0.77	602.4	13.4	0.42	ZZ
964GA9		594.5	-11.3	-0.36	547.5	-41.5	-1.30	ZZ
9GXWY		607.9	2.1	0.07	585.5	-3.5	-0.11	ZZ
9QMJ9E		568.5	-37.3	-1.20	551.5	-37.5	-1.17	ZZ
9WBFG3		601.6	-4.3	-0.14	611.9	22.9	0.72	ZZ
A38KZ6		538.4	-67.4	-2.17	556.4	-32.6	-1.02	ZZ
ABPVD7		613.0	7.2	0.23	605.5	16.5	0.52	ZZ
ADA3FE		600.0	-5.8	-0.19	625.0	36.0	1.13	ZZ
AE4QU4		627.4	21.5	0.69	625.6	36.6	1.15	ZZ
AFY8A8		641.1	35.3	1.14	629.4	40.4	1.27	ZZ
AH36GT		595.5	-10.3	-0.33	583.0	-6.0	-0.19	ZZ
AKCRE8		599.5	-6.3	-0.20	555.5	-33.5	-1.05	ZZ
AKRBY6		585.5	-20.3	-0.65	572.5	-16.5	-0.52	ZZ
ARD4DP		627.5	21.7	0.70	603.5	14.5	0.46	ZZ
B38X6D		629.2	23.4	0.75	613.4	24.5	0.77	ZZ
B4KEHQ		646.0	40.2	1.29	658.0	69.0	2.16	ZZ
B6VDEK		630.0	24.2	0.78	610.0	21.0	0.66	ZZ
BK7ZZV		621.5	15.6	0.50	594.4	5.4	0.17	ZZ

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CBYU87		637.9	32.1	1.03	624.6	35.6	1.12	ZZ
CEF3TK		633.6	27.7	0.89	621.1	32.1	1.01	ZZ
CKNH39		606.0	0.2	0.01	553.5	-35.5	-1.11	ZZ
CXW4P8		590.5	-15.3	-0.49	605.0	16.0	0.50	ZZ
D3GTGV		549.5	-56.3	-1.81	551.5	-37.5	-1.17	ZZ
DRMB9G		575.0	-30.8	-0.99	550.0	-39.0	-1.22	ZZ
DRZYA9		592.5	-13.3	-0.43	576.0	-13.0	-0.41	ZZ
DYJ69Z	X	861.5	255.7	8.23	781.5	192.5	6.04	ZZ
EERHUQ		618.5	12.7	0.41	589.5	0.5	0.02	ZZ
EJ6JXA		640.2	34.3	1.10	610.5	21.5	0.67	ZZ
EJJPFK		617.0	11.2	0.36	603.5	14.5	0.46	ZZ
ELAT9R		626.6	20.8	0.67	629.8	40.8	1.28	ZZ
EM4GN2		593.5	-12.3	-0.40	568.0	-21.0	-0.66	ZZ
ENFEWR		592.5	-13.3	-0.43	587.0	-2.0	-0.06	ZZ
ERFMZ2	X	802.3	196.4	6.32	748.2	159.2	4.99	ZZ
F47QRY		574.5	-31.3	-1.01	551.0	-38.0	-1.19	ZZ
F6H99J		650.5	44.7	1.44	609.5	20.5	0.64	ZZ
F8KEHX		624.0	18.2	0.59	631.0	42.0	1.32	ZZ
G4KFQ6		618.0	12.2	0.39	571.0	-18.0	-0.56	ZZ
GUWLE9		633.0	27.2	0.87	603.0	14.0	0.44	ZZ
GWK3N		618.0	12.2	0.39	574.0	-15.0	-0.47	ZZ
GZZQ7R		580.5	-25.3	-0.81	557.5	-31.5	-0.99	ZZ
H42WLX		658.5	52.7	1.70	660.0	71.0	2.23	ZZ
H4GF4A		589.5	-16.3	-0.52	540.5	-48.5	-1.52	ZZ
HAPLZF		548.9	-57.0	-1.83	525.9	-63.0	-1.98	ZZ
HL24FQ		598.5	-7.3	-0.23	581.2	-7.8	-0.24	ZZ
HTHETR		601.0	-4.8	-0.15	582.5	-6.5	-0.20	ZZ
K49WCP		638.0	32.2	1.04	613.5	24.5	0.77	ZZ
KPUK6P		623.0	17.2	0.55	613.5	24.5	0.77	ZZ
KTT6QZ		567.0	-38.8	-1.25	542.5	-46.5	-1.46	ZZ
KVXNV		652.0	46.2	1.49	625.5	36.5	1.15	ZZ
KYUJAG		606.5	0.7	0.02	566.5	-22.5	-0.70	ZZ
L2HDKQ		584.5	-21.3	-0.69	592.0	3.0	0.10	ZZ
L7C6ZZ		597.0	-8.8	-0.28	558.5	-30.5	-0.95	ZZ
LMV6MP		585.5	-20.3	-0.65	594.5	5.5	0.17	ZZ
MHZRLL		638.5	32.7	1.05	621.0	32.0	1.00	ZZ
MQDMH		628.5	22.7	0.73	631.5	42.5	1.33	ZZ
MQX4XH		610.0	4.2	0.13	610.5	21.5	0.68	ZZ
MRAWW	*	671.5	65.7	2.11	613.5	24.5	0.77	ZZ

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MUC28P		604.5	-1.3	-0.04	591.1	2.1	0.07	ZZ
N9U7XJ		613.7	7.9	0.25	640.2	51.2	1.60	ZZ
NDAEKX		607.5	1.7	0.05	614.0	25.0	0.79	ZZ
PWDNVE		625.3	19.5	0.63	613.8	24.8	0.78	ZZ
Q6228J		612.5	6.7	0.22	575.0	-14.0	-0.44	ZZ
QFJDPM		624.0	18.2	0.59	624.0	35.0	1.10	ZZ
QTQNUN		642.5	36.7	1.18	622.0	33.0	1.04	ZZ
REMMT8		616.8	11.0	0.35	596.1	7.1	0.22	ZZ
RND692		572.0	-33.8	-1.09	586.0	-3.0	-0.09	ZZ
RYTWVP	*	665.5	59.7	1.92	605.0	16.0	0.50	ZZ
TBLTGN		624.0	18.2	0.59	625.0	36.0	1.13	ZZ
TDAAQ		605.0	-0.8	-0.03	580.0	-9.0	-0.28	ZZ
TFD22H		644.0	38.2	1.23	627.5	38.5	1.21	ZZ
TQZYRM	*	525.5	-80.3	-2.58	503.0	-86.0	-2.69	ZZ
TTKVAL		578.5	-27.3	-0.88	544.5	-44.5	-1.39	ZZ
UAPK2C		630.9	25.0	0.81	595.5	6.5	0.20	ZZ
UPEPA7		542.5	-63.3	-2.04	551.0	-38.0	-1.19	ZZ
UTK7PP		621.5	15.7	0.50	588.0	-1.0	-0.03	ZZ
VALBUD		650.0	44.2	1.42	650.0	61.0	1.91	ZZ
VBVKFH		657.0	51.2	1.65	607.0	18.0	0.57	ZZ
VGJAVL		611.0	5.2	0.17	582.0	-7.0	-0.22	ZZ
VLBETW		588.5	-17.3	-0.56	582.5	-6.5	-0.20	ZZ
VMN2BB		585.0	-20.8	-0.67	550.5	-38.5	-1.21	ZZ
VVLV7N		600.0	-5.8	-0.19	575.0	-14.0	-0.44	ZZ
VWZZ6M		616.0	10.2	0.33	596.0	7.0	0.22	ZZ
W8QCTJ		555.0	-50.8	-1.63	552.0	-37.0	-1.16	ZZ
W98DTZ		634.5	28.7	0.92	587.0	-2.0	-0.06	ZZ
XLPFVP		619.0	13.2	0.42	567.0	-22.0	-0.69	ZZ
Y4ZV7G		622.5	16.7	0.54	628.0	39.0	1.22	ZZ
YHKCE		619.0	13.2	0.42	590.5	1.5	0.05	ZZ
YRBUW2		570.5	-35.3	-1.14	576.0	-13.0	-0.41	ZZ
ZCUE6P		612.0	6.2	0.20	578.0	-11.0	-0.34	ZZ
ZGMFBB		607.5	1.7	0.05	594.5	5.5	0.17	ZZ
ZGP93Q		580.0	-25.8	-0.83	573.0	-16.0	-0.50	ZZ

Analysis 606

Ultimate Elongation (percent)

		Summary Statistics	
Grand Means	605.82 percent		588.96 percent
Std Dev Btwn Labs	31.08 percent		31.90 percent
Statistics based on 109 of 112 reporting participants			

Samples D41-D42: Polyisoprene compound, batch #1 & D43-D44: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #606

73LTK4 (X) - Data for all Samples are high. Possible systematic error.

DYJ69Z (X) - Data for all Samples are high. Possible systematic error. Inconsistency in testing within Sample group D41-D42.

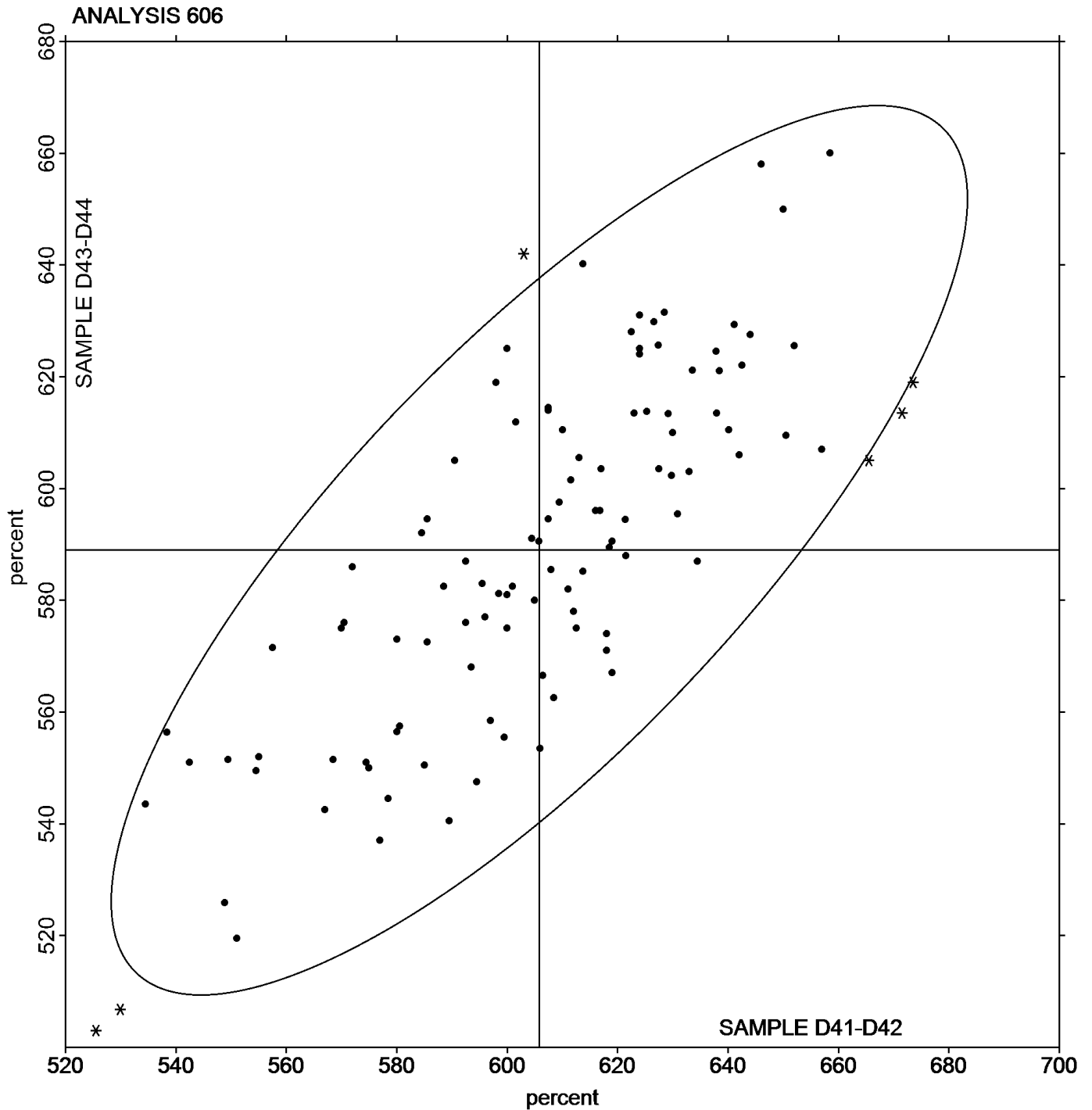
ERFMZ2 (X) - Data for all Samples are high. Possible systematic error.

Analysis 606

Ultimate Elongation (percent)

Grand Mean Sample D41-D42 = 605.82 percent

Grand Mean Sample D43-D44 = 588.96 percent



Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
24GMGD		1,051.5	8.7	0.08	1,053.0	-88.7	-0.86	ZZ
2BEEP8		981.0	-61.8	-0.60	1,120.5	-21.2	-0.20	ZZ
2JMVD7	*	1,192.5	149.7	1.46	1,028.5	-113.2	-1.09	ZZ
3EPRYT		1,017.8	-25.0	-0.24	1,115.0	-26.7	-0.26	ZZ
3RFNX6		1,181.8	138.9	1.36	1,243.3	101.6	0.98	ZZ
4HMQV4	*	1,353.5	310.7	3.04	1,297.5	155.8	1.51	ZZ
4RV6VJ		908.5	-134.3	-1.31	1,199.5	57.8	0.56	ZZ
4U3FT9		1,122.0	79.2	0.77	1,360.5	218.8	2.12	ZZ
4VAUZE		1,185.0	142.2	1.39	1,293.5	151.8	1.47	ZZ
6H3DJB		1,173.1	130.3	1.27	1,268.6	126.9	1.23	ZZ
6TZEZL		1,070.0	27.2	0.27	1,133.5	-8.2	-0.08	ZZ
73LTK4	X	767.0	-275.8	-2.70	757.5	-384.2	-3.72	ZZ
7BZJ8V		1,123.0	80.2	0.78	1,317.0	175.3	1.70	ZZ
7GKL97		1,033.0	-9.8	-0.10	1,108.5	-33.2	-0.32	ZZ
8BUTBW		1,037.5	-5.3	-0.05	1,073.5	-68.2	-0.66	ZZ
8DZ82B		997.5	-45.3	-0.44	1,187.0	45.3	0.44	ZZ
8FNPX3		1,073.5	30.7	0.30	1,042.5	-99.2	-0.96	ZZ
8M72C4		1,086.0	43.2	0.42	971.5	-170.2	-1.65	ZZ
8MNZD8		1,125.0	82.2	0.80	1,120.0	-21.7	-0.21	ZZ
8NGXLE		1,052.9	10.1	0.10	1,139.2	-2.5	-0.02	ZZ
92N7ZB		932.0	-110.8	-1.08	1,101.5	-40.2	-0.39	ZZ
94ATTY		991.4	-51.5	-0.50	1,094.7	-47.0	-0.45	ZZ
964GA9		969.4	-73.4	-0.72	1,285.5	143.8	1.39	ZZ
9GXWY		1,041.5	-1.3	-0.01	1,129.1	-12.5	-0.12	ZZ
9QMJ9E		1,182.0	139.2	1.36	1,301.5	159.8	1.55	ZZ
9WBFG3		1,000.0	-42.8	-0.42	944.9	-196.8	-1.90	ZZ
A38KZ6	*	1,348.1	305.2	2.99	1,249.0	107.3	1.04	ZZ
ABPVD7		1,171.9	129.1	1.26	1,198.0	56.3	0.54	ZZ
ADA3FE	X	21.3	-1,021.5	-9.99	18.8	-1,122.9	-10.86	ZZ
AE4QU4		960.2	-82.7	-0.81	981.2	-160.5	-1.55	ZZ
AFY8A8		1,042.8	0.0	0.00	1,144.4	2.7	0.03	ZZ
AH36GT		1,098.5	55.7	0.54	1,127.5	-14.2	-0.14	ZZ
AKCRE8		1,000.8	-42.1	-0.41	1,167.6	25.9	0.25	ZZ
AKRBY6		1,124.0	81.2	0.79	1,204.0	62.3	0.60	ZZ
ARD4DP		973.6	-69.3	-0.68	1,131.6	-10.1	-0.10	ZZ
B38X6D		1,030.0	-12.9	-0.13	1,101.8	-39.9	-0.39	ZZ
B4KEHQ		1,102.5	59.7	0.58	1,046.5	-95.2	-0.92	ZZ
B6VDEK		981.2	-61.7	-0.60	1,080.5	-61.1	-0.59	ZZ
BK7ZZV		979.7	-63.1	-0.62	1,161.7	20.0	0.19	ZZ

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CBYU87		960.0	-82.8	-0.81	1,052.9	-88.8	-0.86	ZZ
CEF3TK		1,049.8	6.9	0.07	1,133.2	-8.5	-0.08	ZZ
CKNH39		1,036.3	-6.5	-0.06	1,288.7	147.0	1.42	ZZ
CXW4P8		1,069.7	26.8	0.26	1,031.2	-110.5	-1.07	ZZ
D3GTGV		1,237.2	194.3	1.90	1,265.5	123.8	1.20	ZZ
DRZYA9		1,018.5	-24.3	-0.24	1,095.5	-46.2	-0.45	ZZ
DYJ69Z		921.0	-121.8	-1.19	1,022.5	-119.2	-1.15	ZZ
EERHUQ		1,083.4	40.6	0.40	1,248.1	106.4	1.03	ZZ
EJ6JXA		1,024.2	-18.6	-0.18	1,125.1	-16.6	-0.16	ZZ
EJPPFK		1,068.2	25.4	0.25	1,111.7	-30.0	-0.29	ZZ
ELAT9R		965.7	-77.1	-0.75	953.3	-188.4	-1.82	ZZ
ENFEWR		1,063.5	20.7	0.20	1,118.5	-23.2	-0.22	ZZ
ERFMZ2	X	574.3	-468.6	-4.58	699.5	-442.2	-4.28	ZZ
F47QRY		1,060.0	17.2	0.17	1,140.0	-1.7	-0.02	ZZ
F6H99J		906.5	-136.3	-1.33	1,162.0	20.3	0.20	ZZ
F8KEHX		1,037.5	-5.3	-0.05	1,072.5	-69.2	-0.67	ZZ
G4KFQ6		948.5	-94.3	-0.92	1,230.0	88.3	0.85	ZZ
GUWLE9		832.5	-210.3	-2.06	1,056.6	-85.1	-0.82	ZZ
GWK3N		935.5	-107.3	-1.05	1,183.5	41.8	0.40	ZZ
GZZQ7R		1,136.0	93.2	0.91	1,276.0	134.3	1.30	ZZ
H42WLX	*	854.0	-188.8	-1.85	883.0	-258.7	-2.50	ZZ
H4GF4A		1,024.5	-18.3	-0.18	1,262.0	120.3	1.16	ZZ
HAPLZF		1,114.9	72.0	0.70	1,231.7	90.0	0.87	ZZ
HL24FQ		1,067.2	24.4	0.24	1,124.6	-17.1	-0.17	ZZ
HTHETR		1,085.0	42.2	0.41	1,143.0	1.3	0.01	ZZ
K49WCP		992.0	-50.8	-0.50	1,126.5	-15.2	-0.15	ZZ
KPUK6P		1,083.0	40.2	0.39	1,081.5	-60.2	-0.58	ZZ
KTT6QZ		1,175.0	132.2	1.29	1,249.0	107.3	1.04	ZZ
KVXNV		912.0	-130.8	-1.28	1,013.5	-128.2	-1.24	ZZ
KYUJAG		977.5	-65.3	-0.64	1,205.0	63.3	0.61	ZZ
L2HDKQ		1,024.0	-18.8	-0.18	1,057.5	-84.2	-0.81	ZZ
L7C6ZZ		971.0	-71.8	-0.70	1,232.8	91.1	0.88	ZZ
LMV6MP		1,160.5	117.7	1.15	1,174.5	32.8	0.32	ZZ
MHZRLL		985.5	-57.3	-0.56	1,027.5	-114.2	-1.10	ZZ
MQDMH		997.1	-45.7	-0.45	937.0	-204.7	-1.98	ZZ
MQX4XH		932.0	-110.8	-1.08	963.0	-178.7	-1.73	ZZ
MRAWW		898.5	-144.3	-1.41	1,204.5	62.8	0.61	ZZ
MUC28P		1,104.1	61.3	0.60	1,131.2	-10.5	-0.10	ZZ
N9U7XJ		987.3	-55.5	-0.54	912.7	-229.0	-2.22	ZZ

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
NDAEKX		1,011.5	-31.3	-0.31	1,073.0	-68.7	-0.66	ZZ
PWDNVE		1,027.6	-15.3	-0.15	1,093.6	-48.1	-0.47	ZZ
Q6228J		1,032.5	-10.3	-0.10	1,227.5	85.8	0.83	ZZ
QFJDPM		1,016.0	-26.8	-0.26	1,073.0	-68.7	-0.66	ZZ
QTQNUN		958.0	-84.8	-0.83	1,037.0	-104.7	-1.01	ZZ
REMMT8		1,000.8	-42.1	-0.41	1,143.6	1.9	0.02	ZZ
RND692		1,084.2	41.3	0.40	1,014.5	-127.1	-1.23	ZZ
RYTWVP		875.0	-167.8	-1.64	1,139.5	-2.2	-0.02	ZZ
TBLTGN		993.0	-49.8	-0.49	1,032.0	-109.7	-1.06	ZZ
TFD22H		912.5	-130.3	-1.28	1,004.0	-137.7	-1.33	ZZ
TQZYRM	*	1,290.0	247.2	2.42	1,440.0	298.3	2.89	ZZ
TTKVAL		1,038.4	-4.4	-0.04	1,246.1	104.4	1.01	ZZ
UAPK2C		1,021.5	-21.4	-0.21	1,192.7	51.0	0.49	ZZ
UPEPA7	*	1,310.4	267.6	2.62	1,286.1	144.4	1.40	ZZ
UTK7PP		974.7	-68.2	-0.67	1,158.9	17.2	0.17	ZZ
VBVKFH		939.0	-103.8	-1.02	1,143.0	1.3	0.01	ZZ
VGJAVL		946.2	-96.6	-0.95	1,150.0	8.3	0.08	ZZ
VLBETW	X	671.5	-371.3	-3.63	785.0	-356.7	-3.45	ZZ
VVLV7N		963.1	-79.8	-0.78	1,153.1	11.4	0.11	ZZ
VWZZ6M		996.0	-46.8	-0.46	1,114.5	-27.2	-0.26	ZZ
W8QCTJ	*	1,295.0	252.2	2.47	1,325.0	183.3	1.77	ZZ
W98DTZ		979.0	-63.8	-0.62	1,196.6	54.9	0.53	ZZ
XLPFVP		953.5	-89.3	-0.87	1,221.5	79.8	0.77	ZZ
YHKCE		1,059.5	16.7	0.16	1,166.0	24.3	0.24	ZZ
YRBUW2		1,195.0	152.2	1.49	1,167.0	25.3	0.24	ZZ
ZCUE6P		990.5	-52.3	-0.51	1,226.0	84.3	0.82	ZZ
ZGMFBB		1,013.0	-29.8	-0.29	1,204.5	62.8	0.61	ZZ
ZGP93Q		1,100.5	57.7	0.56	1,173.0	31.3	0.30	ZZ

Summary Statistics	
Grand Means	1,042.84 psi 1,141.69 psi
Std Dev Btwn Labs	102.23 psi 103.37 psi
Statistics based on 102 of 106 reporting participants	

Analysis 607

Stress at 300% Elongation (psi)

		Summary Statistics in SI Units	
Grand Means	7.1901 MPa	7.87	MPa
Std Dev Btwn Labs	0.7048 MPa	0.71	MPa
Statistics based on 102 of 106 reporting participants			

Samples D41-D42: Polyisoprene compound, batch #1 & D43-D44: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #607

73LTK4 (X) - Data for Sample group D43-D44 are low.

ADA3FE (X) - Extreme data.

ERFMZ2 (X) - Data for all Samples are low.

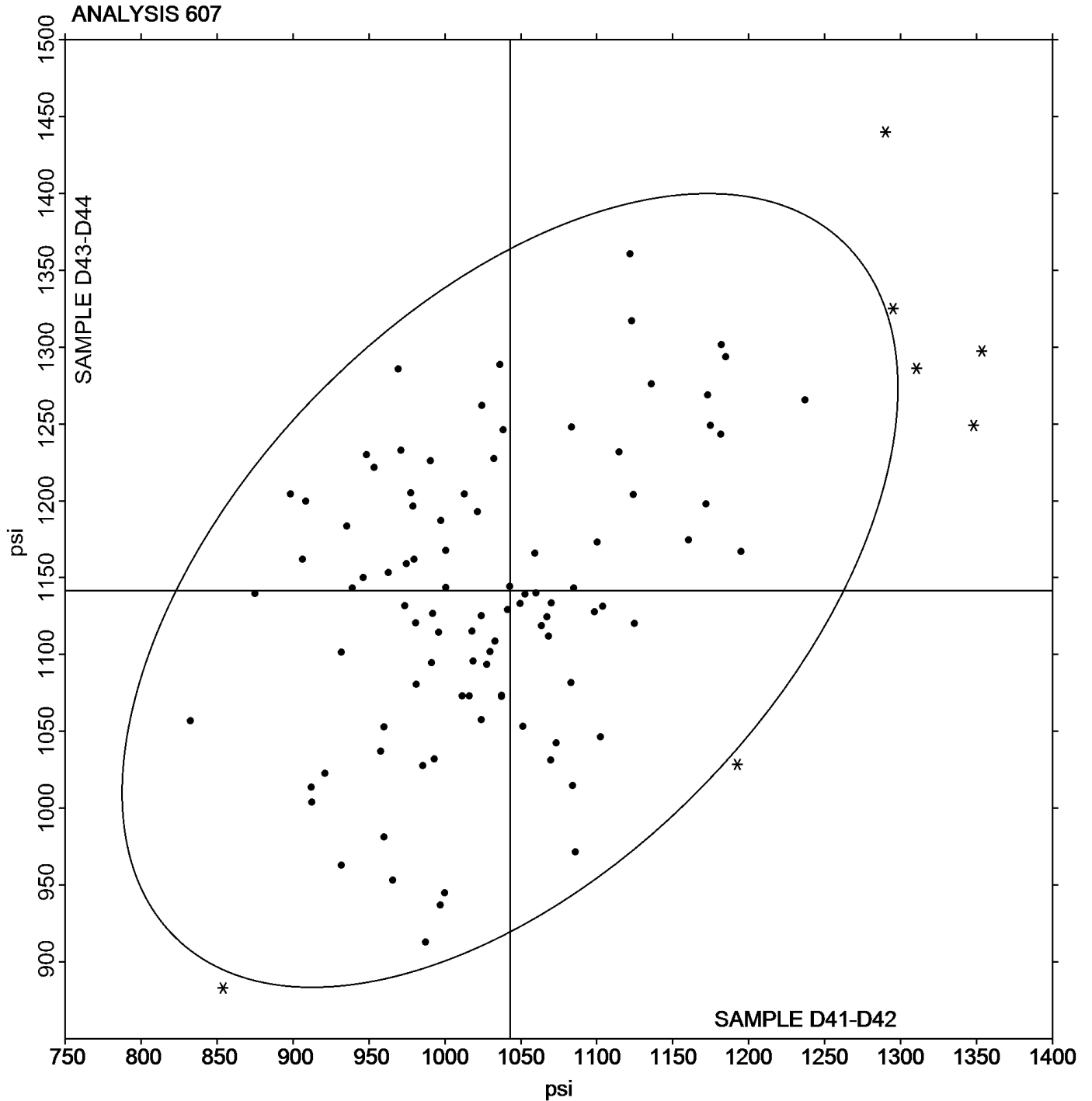
VLBETW (X) - Data for all Samples are low.

Analysis 607

Stress at 300% Elongation (psi)

Grand Mean Sample D41-D42 = 1,042.84 psi

Grand Mean Sample D43-D44 = 1,141.69 psi



Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
24GMGD		208.5	-5.7	-0.29	213.5	-22.9	-1.14	ZZ
2BEEP8		206.0	-8.2	-0.42	236.0	-0.4	-0.02	ZZ
2JMVD7	*	253.5	39.3	2.03	224.5	-11.9	-0.59	ZZ
3EPRYT		206.0	-8.2	-0.42	225.5	-10.9	-0.54	ZZ
3RFNX6		244.3	30.2	1.56	253.0	16.6	0.82	ZZ
4HMQV4		259.5	45.3	2.34	247.5	11.1	0.55	ZZ
4RV6VJ		205.5	-8.7	-0.45	276.5	40.1	2.00	ZZ
4U3FT9		220.5	6.3	0.33	275.0	38.6	1.92	ZZ
4VAUZE		241.0	26.8	1.39	263.5	27.1	1.35	ZZ
6H3DJB		244.7	30.5	1.58	264.8	28.4	1.41	ZZ
6TZEZL		210.0	-4.2	-0.21	227.0	-9.4	-0.47	ZZ
73LTK4	*	184.5	-29.7	-1.53	181.5	-54.9	-2.73	ZZ
7BZJ8V		208.5	-5.7	-0.29	250.5	14.1	0.70	ZZ
7GKL97		223.0	8.8	0.46	240.0	3.6	0.18	ZZ
8BUTBW		221.5	7.3	0.38	230.5	-5.9	-0.29	ZZ
8DZ82B		201.5	-12.7	-0.65	246.5	10.1	0.50	ZZ
8FNPX3		210.5	-3.7	-0.19	204.0	-32.4	-1.61	ZZ
8M72C4		230.0	15.8	0.82	204.5	-31.9	-1.59	ZZ
8MNZD8		218.0	3.8	0.20	222.0	-14.4	-0.72	ZZ
8NGXLE		221.2	7.1	0.37	241.9	5.5	0.27	ZZ
92N7ZB		194.0	-20.2	-1.04	229.0	-7.4	-0.37	ZZ
94ATTY		217.1	2.9	0.15	237.0	0.5	0.03	ZZ
964GA9		199.5	-14.7	-0.76	258.4	22.0	1.09	ZZ
9GXWY		220.2	6.1	0.31	235.7	-0.7	-0.03	ZZ
9QMJ9E		234.5	20.3	1.05	258.0	21.6	1.07	ZZ
9WBFG3		209.6	-4.6	-0.24	200.2	-36.3	-1.80	ZZ
A38KZ6	X	293.3	79.1	4.09	267.1	30.7	1.53	ZZ
ABPVD7		245.1	31.0	1.60	247.3	10.9	0.54	ZZ
ADA3FE	X	4.3	-209.9	-10.85	4.4	-232.0	-11.55	ZZ
AE4QU4		198.0	-16.2	-0.84	200.9	-35.5	-1.77	ZZ
AFY8A8		240.0	25.9	1.34	272.7	36.3	1.80	ZZ
AH36GT		251.0	36.8	1.90	257.0	20.6	1.02	ZZ
AKCRE8		210.3	-3.8	-0.20	253.8	17.4	0.87	ZZ
AKRBY6		236.0	21.8	1.13	256.0	19.6	0.97	ZZ
ARD4DP		187.6	-26.5	-1.37	229.2	-7.3	-0.36	ZZ
B38X6D		215.9	1.7	0.09	229.1	-7.3	-0.37	ZZ
B4KEHQ	X	279.2	65.0	3.36	264.0	27.6	1.37	ZZ
B6VDEK		196.5	-17.6	-0.91	220.5	-16.0	-0.79	ZZ
BK7ZZV		205.7	-8.4	-0.44	243.4	7.0	0.35	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CBYU87		193.9	-20.3	-1.05	216.5	-19.9	-0.99	ZZ
CEF3TK		230.7	16.5	0.85	254.5	18.1	0.90	ZZ
CKNH39		220.5	6.3	0.33	276.3	39.9	1.99	ZZ
CXW4P8		227.0	12.8	0.66	218.3	-18.1	-0.90	ZZ
D3GTGV		258.2	44.0	2.28	263.2	26.8	1.34	ZZ
DRZYA9		210.5	-3.7	-0.19	223.5	-12.9	-0.64	ZZ
DYJ69Z		195.8	-18.4	-0.95	217.6	-18.9	-0.94	ZZ
EERHUQ		232.1	17.9	0.93	265.4	29.0	1.44	ZZ
EJ6JXA		208.1	-6.1	-0.31	240.8	4.3	0.22	ZZ
EJPPFK		224.1	9.9	0.51	237.1	0.7	0.04	ZZ
ELAT9R		209.9	-4.2	-0.22	203.0	-33.4	-1.66	ZZ
EM4GN2		213.5	-0.7	-0.03	240.0	3.6	0.18	ZZ
ENFEWR		217.5	3.3	0.17	232.0	-4.4	-0.22	ZZ
ERFMZ2	X	144.7	-69.5	-3.59	176.7	-59.7	-2.97	ZZ
F47QRY		201.0	-13.2	-0.68	214.5	-21.9	-1.09	ZZ
F6H99J		174.5	-39.7	-2.05	229.0	-7.4	-0.37	ZZ
F8KEHX		223.0	8.8	0.46	230.0	-6.4	-0.32	ZZ
G4KFQ6		193.5	-20.7	-1.07	250.0	13.6	0.68	ZZ
GUWLE9		171.9	-42.3	-2.19	222.6	-13.8	-0.69	ZZ
GWK3N		187.1	-27.1	-1.40	245.1	8.7	0.43	ZZ
GZZQ7R		242.5	28.3	1.47	275.0	38.6	1.92	ZZ
H42WLX		201.0	-13.2	-0.68	213.0	-23.4	-1.17	ZZ
H4GF4A		212.0	-2.2	-0.11	260.5	24.1	1.20	ZZ
HAPLZF		228.2	14.1	0.73	248.0	11.6	0.57	ZZ
HL24FQ		222.7	8.6	0.44	236.3	-0.1	-0.01	ZZ
HTHETR		232.5	18.3	0.95	248.5	12.1	0.60	ZZ
K49WCP		223.0	8.8	0.46	250.0	13.6	0.68	ZZ
KPUK6P		235.5	21.3	1.10	237.0	0.6	0.03	ZZ
KTT6QZ		231.5	17.3	0.90	245.5	9.1	0.45	ZZ
KVXNV		197.5	-16.7	-0.86	218.5	-17.9	-0.89	ZZ
KYUJAG		196.0	-18.2	-0.94	248.0	11.6	0.58	ZZ
L2HDKQ		209.5	-4.7	-0.24	211.5	-24.9	-1.24	ZZ
L7C6ZZ		198.7	-15.5	-0.80	253.1	16.7	0.83	ZZ
LMV6MP		246.5	32.3	1.67	242.0	5.6	0.28	ZZ
MHZRLL		208.5	-5.7	-0.29	221.5	-14.9	-0.74	ZZ
MQDMH		213.2	-0.9	-0.05	205.2	-31.2	-1.55	ZZ
MQX4XH		196.5	-17.7	-0.91	192.0	-44.4	-2.21	ZZ
MRAWW		194.0	-20.2	-1.04	258.5	22.1	1.10	ZZ
MUC28P		238.2	24.1	1.24	243.4	7.0	0.35	ZZ

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
N9U7XJ		215.1	0.9	0.05	196.4	-40.1	-1.99	ZZ
NDAEKX		199.0	-15.2	-0.78	215.5	-20.9	-1.04	ZZ
PWDNVE		214.5	0.4	0.02	232.5	-4.0	-0.20	ZZ
Q6228J		206.0	-8.2	-0.42	245.5	9.1	0.45	ZZ
QFJDPM		211.5	-2.7	-0.14	225.5	-10.9	-0.54	ZZ
QTQNUN		208.5	-5.7	-0.29	230.5	-5.9	-0.29	ZZ
REMMT8		198.7	-15.5	-0.80	232.1	-4.4	-0.22	ZZ
RND692		225.5	11.4	0.59	207.4	-29.0	-1.44	ZZ
RYTWVP		185.5	-28.7	-1.48	239.5	3.1	0.15	ZZ
TBLTGN		208.0	-6.2	-0.32	216.0	-20.4	-1.02	ZZ
TFD22H		187.5	-26.7	-1.38	207.5	-28.9	-1.44	ZZ
TQZYRM	X	264.0	49.8	2.58	301.0	64.6	3.21	ZZ
TTKVAL		212.9	-1.3	-0.06	253.8	17.3	0.86	ZZ
UAPK2C		228.7	14.5	0.75	269.6	33.2	1.65	ZZ
UPEPA7		260.7	46.5	2.40	254.3	17.9	0.89	ZZ
UTK7PP		198.0	-16.2	-0.84	236.4	0.0	0.00	ZZ
VBVKFH		183.5	-30.7	-1.58	228.5	-7.9	-0.39	ZZ
VGJAVL		190.5	-23.7	-1.22	237.0	0.6	0.03	ZZ
VLBETW		187.0	-27.2	-1.40	218.5	-17.9	-0.89	ZZ
VVLV7N		191.5	-22.7	-1.17	235.0	-1.5	-0.07	ZZ
VWZZ6M		201.0	-13.2	-0.68	231.5	-4.9	-0.24	ZZ
W8QCTJ	X	307.5	93.3	4.83	317.0	80.6	4.01	ZZ
W98DTZ		203.1	-11.1	-0.57	246.6	10.2	0.51	ZZ
XLFPVP		191.0	-23.2	-1.20	245.5	9.1	0.45	ZZ
Y4ZV7G		233.0	18.8	0.97	231.5	-4.9	-0.24	ZZ
YHKCE		219.5	5.3	0.28	244.5	8.1	0.40	ZZ
YRBUW2		239.0	24.8	1.28	237.5	1.1	0.05	ZZ
ZCUE6P		205.5	-8.7	-0.45	255.0	18.6	0.93	ZZ
ZGMFBB		211.8	-2.4	-0.12	249.3	12.8	0.64	ZZ
ZGP93Q		228.0	13.8	0.72	248.5	12.1	0.60	ZZ

Summary Statistics			
Grand Means	214.16 psi	236.41 psi	
Stnd Dev Btwn Labs	19.35 psi	20.09 psi	
Statistics based on 102 of 108 reporting participants			

Analysis 608

Stress at 100% Elongation (psi)

		Summary Statistics in SI Units	
Grand Means	1.4765 MPa	1.63	MPa
Stnd Dev Btwn Labs	0.1334 MPa	0.14	MPa
Statistics based on 102 of 108 reporting participants			

Samples D41-D42: Polyisoprene compound, batch #1 & D43-D44: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #608

A38KZ6 (X) - Data for Sample group D41-D42 are high.

ADA3FE (X) - Extreme data.

B4KEHQ (X) - Data for Sample group D41-D42 are high.

ERFMZ2 (X) - Data for all Samples are low.

TQZYRM (X) - Data for Sample group D43-D44 are high.

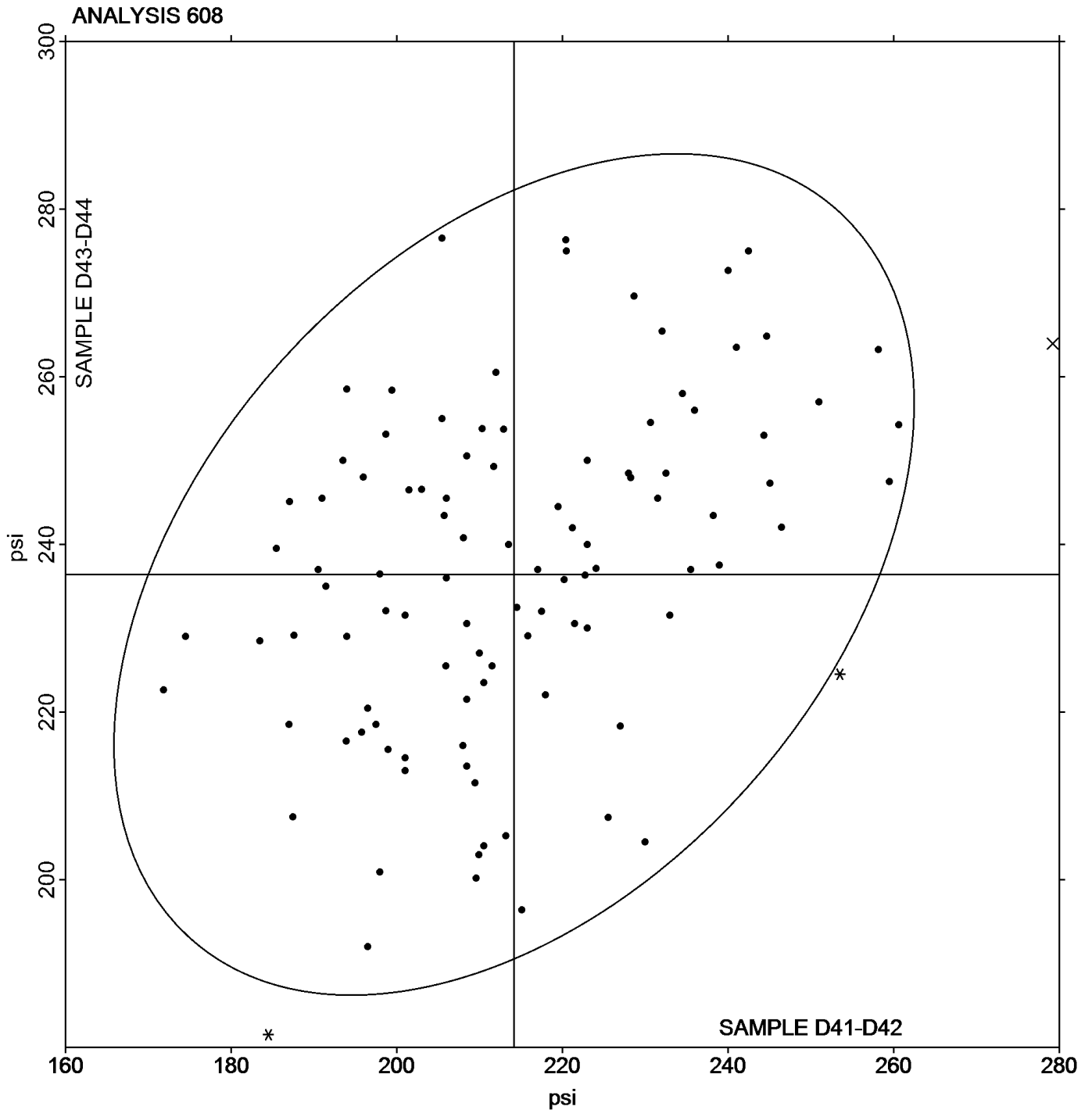
W8QCTJ (X) - Data for all Samples are high.

Analysis 608

Stress at 100% Elongation (psi)

Grand Mean Sample D41-D42 = 214.16 psi

Grand Mean Sample D43-D44 = 236.41 psi



Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
24GMGD		50.50	-0.48	-0.24	51.50	-0.87	-0.48	XX
2BEEP8		50.00	-0.98	-0.48	51.50	-0.87	-0.48	BT
2JMVD7		52.50	1.52	0.75	51.50	-0.87	-0.48	HH
3EPRYT		50.35	-0.63	-0.31	52.85	0.48	0.26	XX
3RFNX6		52.75	1.77	0.87	52.90	0.53	0.29	BT
4HMQV4		51.00	0.02	0.01	51.00	-1.37	-0.75	XX
4RV6VJ	*	47.50	-3.48	-1.72	52.90	0.53	0.29	XX
4U3FT9		49.55	-1.43	-0.71	53.30	0.93	0.51	BT
4VAUZE		50.50	-0.48	-0.24	52.00	-0.37	-0.20	BT
6H3DJB		53.00	2.02	1.00	54.00	1.63	0.89	XX
6TZEZL		51.00	0.02	0.01	53.50	1.13	0.62	HH
73LTK4		54.50	3.52	1.74	55.00	2.63	1.44	XX
7BZJ8V		46.50	-4.48	-2.21	50.00	-2.37	-1.30	BT
7GKL97		51.00	0.02	0.01	53.00	0.63	0.35	BT
8BUTBW		52.00	1.02	0.50	53.00	0.63	0.35	BT
8DZ82B		49.50	-1.48	-0.73	52.50	0.13	0.07	HH
8FNPX3		50.50	-0.48	-0.24	50.50	-1.87	-1.02	BT
8G3UWZ	*	56.50	5.52	2.73	57.50	5.13	2.81	HH
8M72C4		53.25	2.27	1.12	51.50	-0.87	-0.48	BT
8NGXLE		49.00	-1.98	-0.98	49.50	-2.87	-1.57	BT
92N7ZB		51.00	0.02	0.01	53.00	0.63	0.35	XX
94ATTY		53.00	2.02	1.00	52.00	-0.37	-0.20	HH
9GXWY		52.40	1.42	0.70	52.75	0.38	0.21	XX
9QMJ9E		53.00	2.02	1.00	53.00	0.63	0.35	XX
9WBFG3		50.00	-0.98	-0.48	49.45	-2.92	-1.60	XX
A38KZ6	*	55.50	4.52	2.23	58.00	5.63	3.08	XX
ABPVD7		50.50	-0.48	-0.24	50.00	-2.37	-1.30	XX
ADA3FE	X	58.50	7.52	3.71	56.50	4.13	2.26	XX
AE4QU4		50.55	-0.43	-0.21	50.15	-2.22	-1.21	BT
AFY8A8		50.65	-0.33	-0.16	51.60	-0.77	-0.42	BT
AH36GT		53.75	2.77	1.37	53.75	1.38	0.76	HH
AKCRE8		50.55	-0.43	-0.21	53.60	1.23	0.67	BT
AKRBY6		51.50	0.52	0.26	53.00	0.63	0.35	BT
ARD4DP		51.00	0.02	0.01	52.50	0.13	0.07	XX
B38X6D		48.10	-2.88	-1.42	50.05	-2.32	-1.27	BT
B4KEHQ	*	56.15	5.17	2.55	55.00	2.63	1.44	BT
B6VDEK		49.25	-1.73	-0.85	50.25	-2.12	-1.16	BT
BK7ZZV		51.50	0.52	0.26	54.00	1.63	0.89	XX
CBYU87		52.00	1.02	0.50	52.50	0.13	0.07	XX

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CEF3TK		51.80	0.82	0.40	53.90	1.53	0.84	XX
CKNH39		53.85	2.87	1.42	56.60	4.23	2.32	BT
CXW4P8	*	54.50	3.52	1.74	52.00	-0.37	-0.20	XX
D3GTGV		48.50	-2.48	-1.23	50.00	-2.37	-1.30	HH
DRMB9G		51.50	0.52	0.26	52.00	-0.37	-0.20	BT
DRZYA9		53.00	2.02	1.00	53.50	1.13	0.62	XX
DYJ69Z	X	60.00	9.02	4.45	61.50	9.13	5.00	XX
EERHUQ		51.10	0.12	0.06	53.40	1.03	0.56	BT
EJ6JXA		51.80	0.82	0.40	54.00	1.63	0.89	BT
EJPPFK		51.00	0.02	0.01	51.50	-0.87	-0.48	BT
ELAT9R		51.60	0.62	0.31	52.10	-0.27	-0.15	BT
EM4GN2		48.50	-2.48	-1.23	51.50	-0.87	-0.48	XX
ENFEWR		53.50	2.52	1.24	53.00	0.63	0.35	HH
ERFMZ2	*	46.50	-4.48	-2.21	48.00	-4.37	-2.39	BT
F6H99J		49.25	-1.73	-0.85	52.25	-0.12	-0.06	XX
F7B8GP		52.00	1.02	0.50	52.50	0.13	0.07	BT
F8KEHX		51.50	0.52	0.26	52.00	-0.37	-0.20	HH
G4KFQ6		49.50	-1.48	-0.73	52.50	0.13	0.07	BT
GUWLE9		47.30	-3.68	-1.82	51.70	-0.67	-0.37	BT
GWK3N		49.00	-1.98	-0.98	51.00	-1.37	-0.75	BT
GYRGEV		52.00	1.02	0.50	54.00	1.63	0.89	BT
GZZQ7R		52.00	1.02	0.50	55.00	2.63	1.44	BT
H42WLX		50.00	-0.98	-0.48	49.50	-2.87	-1.57	HH
H4GF4A		52.50	1.52	0.75	56.00	3.63	1.99	XX
HAPLZF		48.50	-2.48	-1.23	50.50	-1.87	-1.02	HH
HL24FQ		52.55	1.57	0.77	53.75	1.38	0.76	BT
HTHETR		53.60	2.62	1.29	54.15	1.78	0.98	BT
HWXAA		51.00	0.02	0.01	49.50	-2.87	-1.57	XX
K49WCP		51.10	0.12	0.06	53.40	1.03	0.56	BT
KPUK6P		52.00	1.02	0.50	54.00	1.63	0.89	BT
KTT6QZ		52.00	1.02	0.50	53.00	0.63	0.35	XX
KVXNV		52.10	1.12	0.55	54.00	1.63	0.89	XX
KYUJAG		48.00	-2.98	-1.47	52.50	0.13	0.07	BT
L2HDKQ		52.50	1.52	0.75	51.50	-0.87	-0.48	HH
L7C6ZZ		50.50	-0.48	-0.24	55.00	2.63	1.44	BT
LMV6MP		55.00	4.02	1.98	55.00	2.63	1.44	HH
MHZRLL		50.65	-0.33	-0.16	50.70	-1.67	-0.91	BT
MQDMH		49.10	-1.88	-0.93	48.45	-3.92	-2.15	BT
MQX4XH		50.65	-0.33	-0.16	51.95	-0.42	-0.23	BT

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MRAWW		49.00	-1.98	-0.98	53.50	1.13	0.62	XX
MUC28P		50.80	-0.18	-0.09	52.20	-0.17	-0.09	XX
N9U7XJ		51.00	0.02	0.01	51.00	-1.37	-0.75	BT
NDAEKX		52.05	1.07	0.53	52.80	0.43	0.24	XX
PWDNVE		51.00	0.02	0.01	52.10	-0.27	-0.15	BT
Q6228J		50.50	-0.48	-0.24	52.00	-0.37	-0.20	HH
QFJDPM		50.00	-0.98	-0.48	50.50	-1.87	-1.02	XX
QKEA9M		49.00	-1.98	-0.98	50.00	-2.37	-1.30	BT
QTQNUN		47.00	-3.98	-1.97	48.00	-4.37	-2.39	BT
REMMT8		49.85	-1.13	-0.56	52.35	-0.02	-0.01	XX
RND692		55.00	4.02	1.98	54.00	1.63	0.89	XX
RYTWVP		49.70	-1.28	-0.63	53.75	1.38	0.76	XX
TBLTGN		50.00	-0.98	-0.48	50.00	-2.37	-1.30	BT
TDAAQ	X	55.50	4.52	2.23	59.00	6.63	3.63	BT
TFD22H		48.55	-2.43	-1.20	50.95	-1.42	-0.78	BT
TTKVAL		51.25	0.27	0.13	52.80	0.43	0.24	BT
UAPK2C		50.00	-0.98	-0.48	52.00	-0.37	-0.20	BT
UPEPA7		53.00	2.02	1.00	53.15	0.78	0.43	XX
UTK7PP		49.50	-1.48	-0.73	53.20	0.83	0.46	BT
VALBUD		51.00	0.02	0.01	51.00	-1.37	-0.75	XX
VBVKFH		49.70	-1.28	-0.63	51.95	-0.42	-0.23	BT
VGJAVL		47.00	-3.98	-1.97	50.00	-2.37	-1.30	XX
VLBETW		48.50	-2.48	-1.23	52.50	0.13	0.07	XX
VMN2BB		51.50	0.52	0.26	54.00	1.63	0.89	HH
VVLV7N		50.50	-0.48	-0.24	52.00	-0.37	-0.20	XX
VWZZ6M		50.00	-0.98	-0.48	51.00	-1.37	-0.75	BT
W98DTZ		49.20	-1.78	-0.88	51.90	-0.47	-0.26	XX
WZRRN3		47.55	-3.43	-1.69	51.40	-0.97	-0.53	BT
XLPFVP		49.00	-1.98	-0.98	52.00	-0.37	-0.20	HH
Y4ZV7G		52.50	1.52	0.75	52.00	-0.37	-0.20	XX
YHKCE		52.00	1.02	0.50	53.00	0.63	0.35	XX
YRBUW2		51.50	0.52	0.26	51.00	-1.37	-0.75	BT
ZCUE6P		53.50	2.52	1.24	56.00	3.63	1.99	BT
ZGP93Q		53.05	2.07	1.02	54.70	2.33	1.28	XX

Analysis 620

Hardness (Shore A/Type A)

Summary Statistics			
Grand Means	50.981 Type A	52.368 Type A	
Stnd Dev Btwn Labs	2.025 Type A	1.826 Type A	
Statistics based on 109 of 112 reporting participants			

Samples D41-D42: Polyisoprene compound, batch #1 & D43-D44: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #620

ADA3FE (X) - Data for Sample group D41-D42 are high.

DYJ69Z (X) - Data for all Samples are high.

TDAAQW (X) - Data for Sample group D43-D44 are high.

Results by Reading Time (as reported by laboratory)

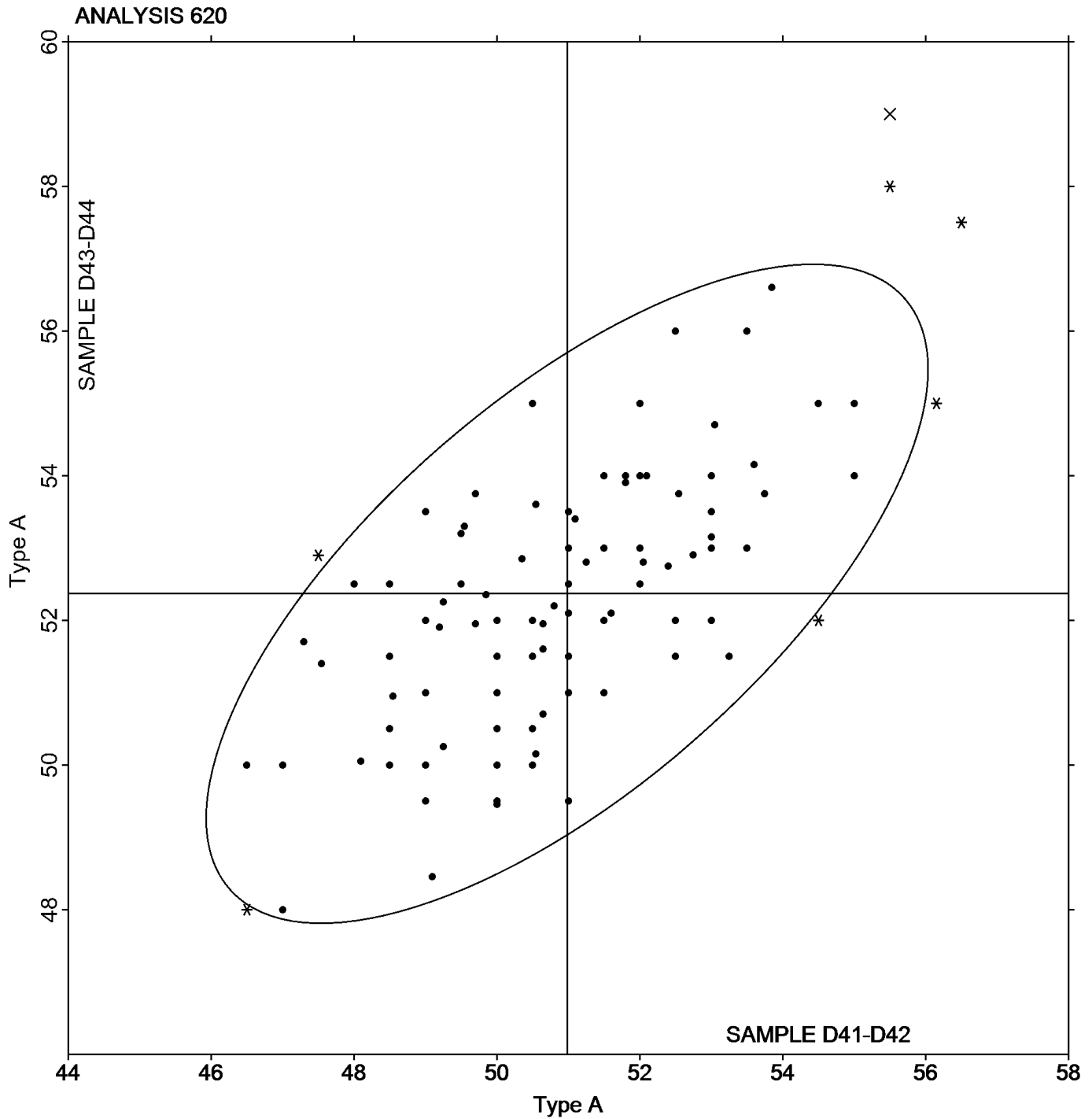
Reading Time	Sample D41 <i>Polyisoprene compound, batch #1</i>			Sample D42 <i>Polyisoprene compound, batch #1</i>			Labs Incl / Rpt	
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM		
Select from list below	50.90	0.14	-0.08	52.35	0.21	-0.02	2	2
Readings taken within 0 - 5 second	51.03	1.61	0.05	52.34	1.63	-0.03	74	80
Readings taken at 5 seconds	49.93	2.26	-1.05	51.97	2.12	-0.40	14	14
Readings taken after 5+ seconds	49.14	1.51	-1.84	50.74	0.77	-1.63	4	5
Maximum hardness indicator used	51.88	1.69	0.90	52.93	0.91	0.56	9	11

Analysis 620

Hardness (Shore A/Type A)

Grand Mean Sample D41-D42 = 50.981 Type A

Grand Mean Sample D43-D44 = 52.368 Type A



Rubber Interlaboratory Testing Program

Analysis 621

Density

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2JMVD7		1.140	-0.002	-0.80	1.139	-0.004	-1.55	ZZ
3EPRYT		1.145	0.002	0.88	1.145	0.002	0.67	ZZ
3RFNX6		1.138	-0.005	-1.68	1.139	-0.004	-1.48	ZZ
4HMQV4		1.140	-0.003	-1.13	1.143	-0.001	-0.22	ZZ
6H3DJB		1.145	0.002	0.79	1.142	-0.001	-0.26	ZZ
6TZEZL		1.145	0.002	0.70	1.143	-0.001	-0.22	ZZ
73LTK4		1.146	0.003	1.14	1.145	0.002	0.73	ZZ
7BZJ8V	*	1.145	0.002	0.88	1.140	-0.003	-1.12	ZZ
7GKL97		1.139	-0.004	-1.31	1.142	-0.002	-0.58	ZZ
8BUTBW		1.144	0.001	0.33	1.143	0.000	-0.04	ZZ
8DZ82B		1.144	0.002	0.55	1.145	0.001	0.53	ZZ
8FNPX3		1.141	-0.002	-0.69	1.141	-0.002	-0.78	ZZ
8G3UWZ	*	1.151	0.008	2.89	1.151	0.007	2.65	ZZ
8M72C4		1.142	0.000	-0.16	1.142	-0.002	-0.55	ZZ
8NGXLE		1.142	-0.001	-0.21	1.143	-0.001	-0.22	ZZ
92N7ZB		1.142	0.000	-0.14	1.143	0.000	0.10	ZZ
94ATTY	X	1.131	-0.012	-4.23	1.129	-0.015	-5.26	ZZ
9QMJ9E		1.144	0.001	0.33	1.144	0.000	0.17	ZZ
ABPVD7		1.139	-0.004	-1.31	1.140	-0.004	-1.30	ZZ
AFY8A8		1.144	0.001	0.33	1.143	-0.001	-0.22	ZZ
AH36GT		1.146	0.004	1.28	1.145	0.002	0.78	ZZ
AKRBY6		1.143	0.000	-0.03	1.147	0.004	1.39	ZZ
ARD4DP	*	1.149	0.007	2.38	1.150	0.007	2.44	ZZ
B6VDEK		1.144	0.001	0.48	1.145	0.001	0.53	ZZ
BK7ZZV		1.144	0.001	0.33	1.144	0.001	0.33	ZZ
CKNH39	*	1.135	-0.008	-2.95	1.138	-0.005	-1.84	ZZ
CXW4P8		1.144	0.001	0.33	1.148	0.004	1.57	ZZ
DRMB9G		1.146	0.003	1.06	1.146	0.002	0.85	ZZ
DRZYA9		1.144	0.001	0.39	1.144	0.001	0.32	ZZ
EERHUQ		1.144	0.001	0.35	1.144	0.001	0.32	ZZ
EJ6JXA		1.147	0.005	1.67	1.148	0.005	1.72	ZZ
EJJPFK		1.141	-0.001	-0.51	1.144	0.001	0.33	ZZ
ELAT9R		1.139	-0.003	-1.20	1.140	-0.003	-0.98	ZZ
EM4GN2		1.145	0.002	0.70	1.144	0.001	0.32	ZZ
ENFEWR		1.147	0.004	1.64	1.145	0.002	0.60	ZZ
F8KEHX		1.142	-0.001	-0.21	1.142	-0.002	-0.58	ZZ
GWK3N		1.141	-0.002	-0.63	1.138	-0.005	-1.84	ZZ
GYRGEV		1.143	0.001	0.26	1.146	0.003	1.14	ZZ
GZZQ7R		1.143	0.001	0.26	1.144	0.001	0.42	ZZ

Analysis 621

Density

WebCode	Data Flag	Sample D41-D42			Sample D43-D44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
H4GF4A		1.141	-0.002	-0.58	1.142	-0.001	-0.40	ZZ
HL24FQ		1.143	0.001	0.22	1.143	0.000	0.10	ZZ
HTHETR		1.142	-0.001	-0.21	1.145	0.002	0.67	ZZ
HWXAA		1.141	-0.001	-0.45	1.141	-0.002	-0.78	ZZ
KPUK6P		1.142	-0.001	-0.29	1.143	0.000	-0.03	ZZ
KTT6QZ		1.142	0.000	-0.05	1.143	0.000	-0.08	ZZ
L2HDKQ		1.143	0.000	0.15	1.141	-0.003	-0.94	ZZ
L7C6ZZ		1.145	0.002	0.70	1.144	0.000	0.14	ZZ
LMV6MP		1.144	0.002	0.61	1.146	0.003	0.98	ZZ
MHZRLL		1.146	0.003	1.06	1.146	0.003	1.03	ZZ
MQDMH		1.141	-0.002	-0.58	1.142	-0.002	-0.58	ZZ
MUC28P		1.141	-0.002	-0.76	1.140	-0.004	-1.30	ZZ
N9U7XJ		1.139	-0.004	-1.36	1.139	-0.004	-1.41	ZZ
NDAEKX	*	1.147	0.004	1.43	1.151	0.007	2.65	ZZ
PWDNVE		1.141	-0.001	-0.47	1.141	-0.002	-0.71	ZZ
QFJDPM		1.140	-0.003	-0.94	1.140	-0.003	-1.12	ZZ
QTQNUN		1.143	0.000	0.15	1.142	-0.001	-0.40	ZZ
REMMT8		1.141	-0.002	-0.62	1.142	-0.001	-0.53	ZZ
RYTWVP		1.141	-0.002	-0.73	1.142	-0.002	-0.57	ZZ
TBLTGN		1.138	-0.005	-1.86	1.139	-0.004	-1.48	ZZ
TTKVAL		1.144	0.002	0.55	1.146	0.003	0.94	ZZ
UAPK2C		1.142	-0.001	-0.36	1.142	-0.001	-0.44	ZZ
UPEPA7		1.141	-0.002	-0.63	1.141	-0.002	-0.89	ZZ
UTK7PP		1.140	-0.003	-1.04	1.142	-0.001	-0.46	ZZ
VBVKFH		1.140	-0.003	-1.13	1.143	0.000	-0.04	ZZ
VGJAVL	X	1.135	-0.008	-2.77	1.133	-0.011	-3.82	ZZ
W98DTZ	*	1.139	-0.004	-1.31	1.145	0.001	0.50	ZZ
YHKCE		1.142	0.000	-0.10	1.142	-0.001	-0.24	ZZ
YRBUW2		1.143	0.000	0.02	1.142	-0.001	-0.39	ZZ
ZCUE6P		1.145	0.002	0.90	1.146	0.003	1.20	ZZ
ZGMFBB		1.144	0.002	0.64	1.144	0.001	0.48	ZZ

Summary Statistics

Grand Means

1.1426 Mg/M³1.1431 Mg/M³

Std Dev Btwn Labs

0.0027 Mg/M³0.0028 Mg/M³

Statistics based on 68 of 70 reporting participants

Analysis 621

Density

Comments on assigned Data Flags for Test #621

94ATTY (X) - Data for all Samples are low. Possible systematic error. Inconsistency in testing within Sample group D41-D42.

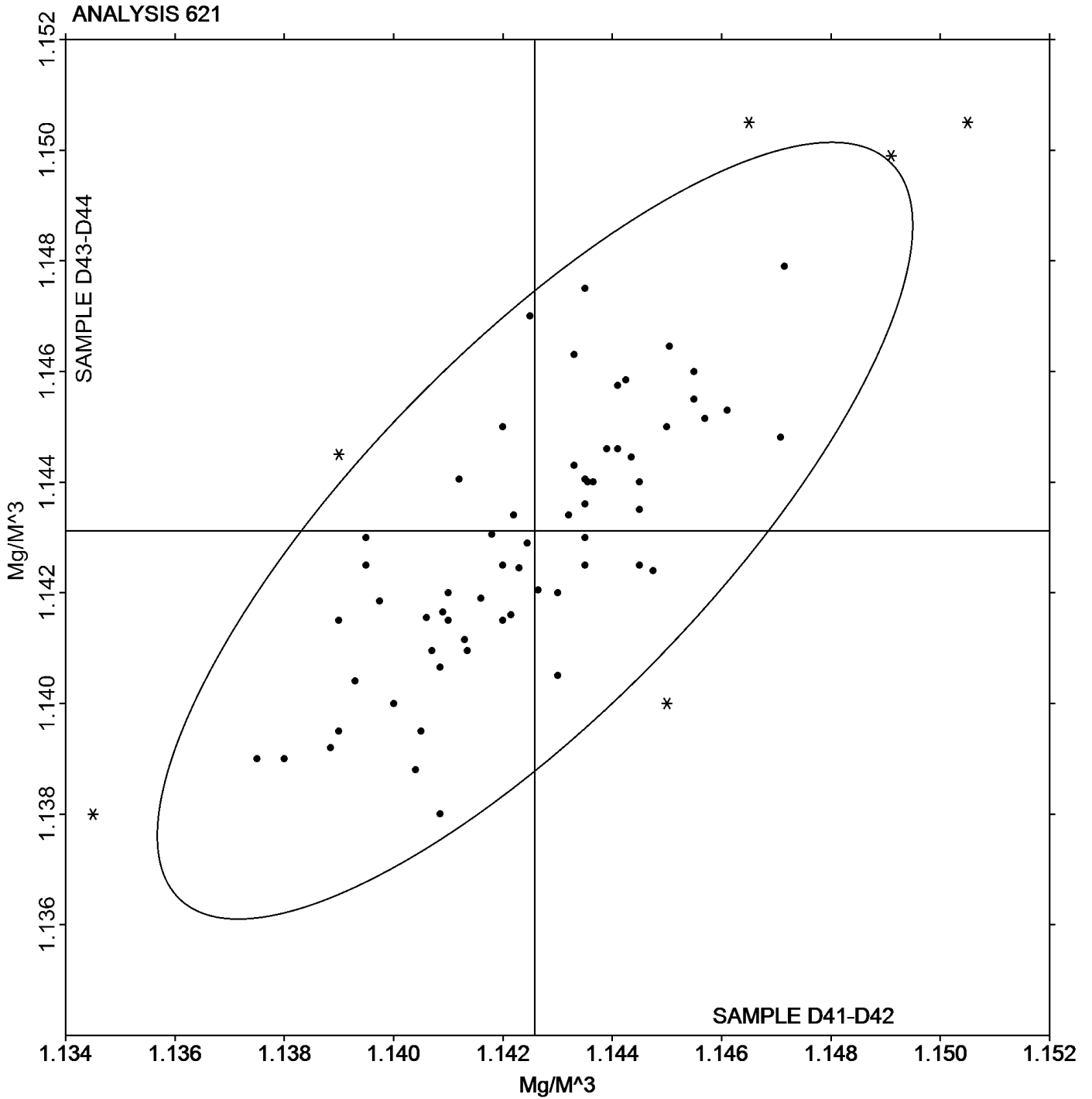
VGJAVL (X) - Data for all Samples are low. Possible systematic error.

Analysis 621

Density

Grand Mean Sample D41-D42 = 1.1426 Mg/M³

Grand Mean Sample D43-D44 = 1.1431 Mg/M³



Analysis 630

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

WebCode	Data Flag	Sample D41-D42			Sample M41-M42			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3RFNX6	*	2,925.2	-358.2	-2.80	2,899.2	-276.9	-1.33	ZZ
4RV6VJ		3,353.0	69.6	0.54	3,278.0	101.9	0.49	ZZ
6H3DJB	*	3,638.0	354.5	2.78	3,497.2	321.1	1.54	ZZ
7GKL97		3,292.5	9.1	0.07	3,186.0	9.9	0.05	ZZ
8NGXLE		3,368.7	85.2	0.67	3,434.3	258.2	1.24	ZZ
94ATTY		3,259.3	-24.2	-0.19	3,000.2	-175.9	-0.84	ZZ
964GA9		3,273.9	-9.5	-0.07	3,123.0	-53.1	-0.25	ZZ
A38KZ6		3,233.8	-49.7	-0.39	3,055.6	-120.5	-0.58	ZZ
AE4QU4		3,256.1	-27.3	-0.21	3,103.8	-72.3	-0.35	ZZ
AH36GT		3,178.5	-104.9	-0.82	2,665.0	-511.1	-2.45	ZZ
B38X6D		3,408.6	125.2	0.98	3,414.0	237.9	1.14	ZZ
CBYU87		3,429.3	145.9	1.14	3,339.6	163.5	0.78	ZZ
CXW4P8		3,246.7	-36.7	-0.29	3,252.5	76.4	0.37	ZZ
EJ6JXA		3,410.5	127.0	0.99	3,431.1	255.0	1.22	ZZ
F8KEHX		3,422.5	139.1	1.09	3,211.5	35.4	0.17	ZZ
HTHETR		3,182.0	-101.4	-0.79	3,136.0	-40.1	-0.19	ZZ
KVXNV		3,352.0	68.6	0.54	2,844.0	-332.1	-1.59	ZZ
KYUJAG		3,274.5	-8.9	-0.07	3,168.0	-8.1	-0.04	ZZ
L7C6ZZ		3,068.3	-215.1	-1.68	3,060.3	-115.8	-0.55	ZZ
LMV6MP		3,192.9	-90.6	-0.71	3,099.3	-76.8	-0.37	ZZ
MQDMH		3,314.1	30.7	0.24	3,212.6	36.5	0.17	ZZ
MUC28P		3,214.8	-68.7	-0.54	3,040.6	-135.5	-0.65	ZZ
NDAEKX		3,328.0	44.6	0.35	2,823.5	-352.6	-1.69	ZZ
QFJDPM		3,406.5	123.1	0.96	3,285.5	109.4	0.52	ZZ
QTQNUN		3,324.5	41.1	0.32	3,140.5	-35.6	-0.17	ZZ
REMMT8		3,292.4	8.9	0.07	3,154.6	-21.5	-0.10	ZZ
RND692		3,102.4	-181.1	-1.42	3,188.7	12.6	0.06	ZZ
RYTWVP		3,350.0	66.6	0.52	3,269.5	93.4	0.45	ZZ
TFD22H		3,270.5	-12.9	-0.10	3,372.5	196.4	0.94	ZZ
TTKVAL		3,114.0	-169.4	-1.33	2,929.9	-246.2	-1.18	ZZ
UAPK2C	X	3,330.4	47.0	0.37	2,403.9	-772.2	-3.70	ZZ
UPEPA7		3,347.8	64.3	0.50	3,218.3	42.2	0.20	ZZ
UTK7PP	*	3,428.7	145.3	1.14	3,736.9	560.8	2.69	ZZ
VGJAVL		3,181.3	-102.2	-0.80	3,314.2	138.1	0.66	ZZ
XLPFVP		3,245.5	-37.9	-0.30	3,037.0	-139.1	-0.67	ZZ
ZCUE6P		3,234.0	-49.4	-0.39	3,240.4	64.3	0.31	ZZ

Analysis 630

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

Summary Statistics

Grand Means

3,283.44 psi

3,176.09 psi

Std Dev Btwn Labs

127.72 psi

208.85 psi

Statistics based on 35 of 36 reporting participants

Summary Statistics in SI Units

Grand Means

22.638 MPa

21.90 MPa

Std Dev Btwn Labs

0.881 MPa

1.44 MPa

Statistics based on 35 of 36 reporting participants

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #630

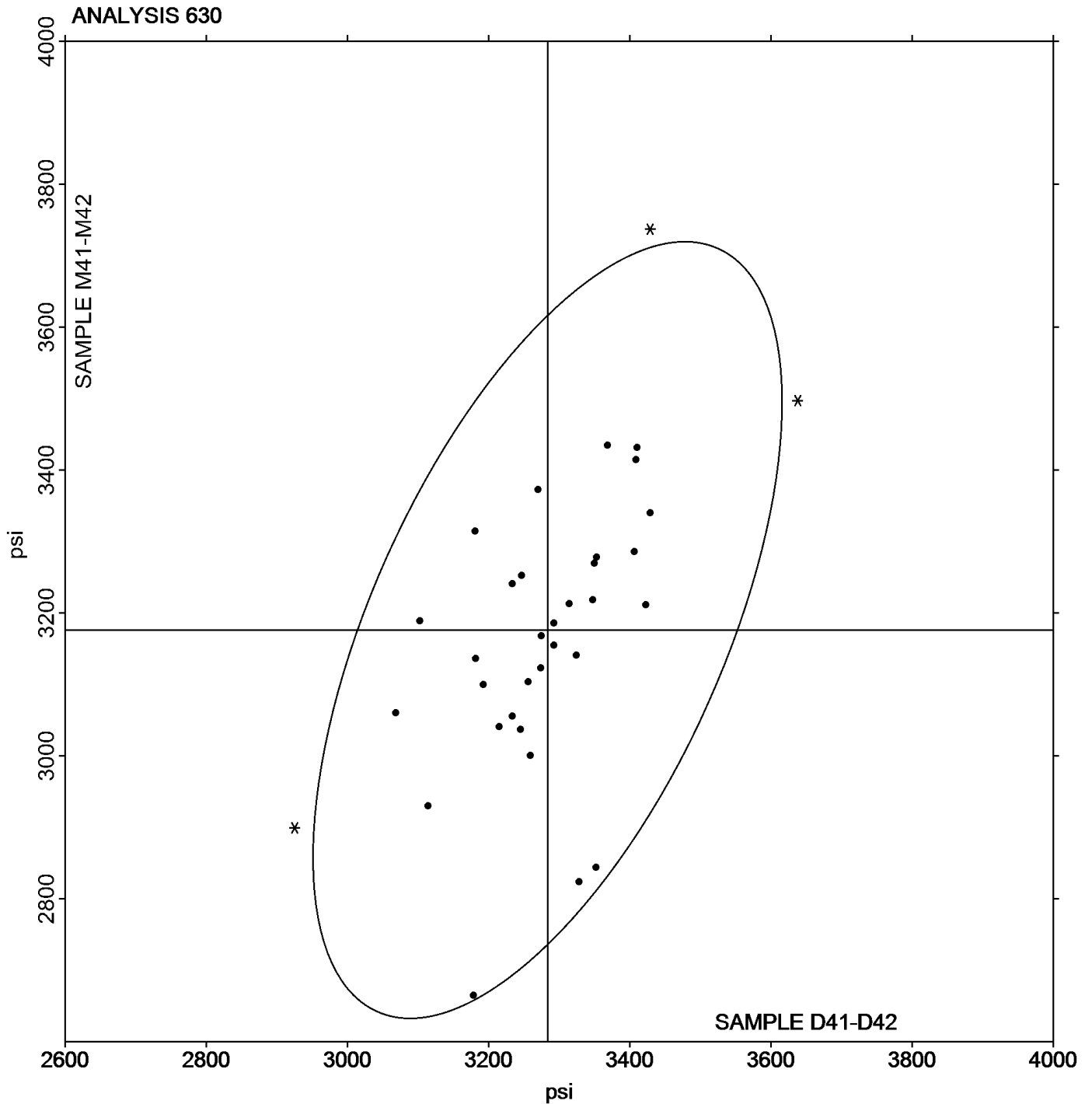
UAPK2C (X) - Data for Sample group M41-M42 are low.

Analysis 630

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

Grand Mean Sample D41-D42 = 3,283.44 psi

Grand Mean Sample M41-M42 = 3,176.09 psi



Analysis 631

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

WebCode	Data Flag	Sample D41-D42			Sample M41-M42			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3RFNX6	*	529.9	-83.3	-2.80	509.5	-66.8	-2.36	ZZ
4RV6VJ		673.5	60.2	2.03	631.5	55.2	1.96	ZZ
6H3DJB		613.7	0.5	0.02	586.0	9.7	0.34	ZZ
7GKL97		609.5	-3.8	-0.13	590.5	14.2	0.50	ZZ
8NGXLE		605.8	-7.5	-0.25	573.5	-2.7	-0.10	ZZ
94ATTY		629.8	16.5	0.56	567.7	-8.6	-0.30	ZZ
964GA9		594.5	-18.8	-0.63	532.0	-44.3	-1.57	ZZ
A38KZ6	X	538.4	-74.9	-2.52	579.8	3.5	0.12	ZZ
AE4QU4		627.4	14.1	0.47	571.1	-5.2	-0.18	ZZ
AH36GT		595.5	-17.8	-0.60	600.5	24.2	0.86	ZZ
B38X6D		629.2	15.9	0.54	588.8	12.5	0.44	ZZ
CBYU87		637.9	24.6	0.83	593.7	17.4	0.62	ZZ
CXW4P8		590.5	-22.8	-0.77	578.5	2.2	0.08	ZZ
EJ6JXA		640.2	26.9	0.90	596.1	19.8	0.70	ZZ
F8KEHX		624.0	10.7	0.36	601.5	25.2	0.89	ZZ
HTHETR		601.0	-12.3	-0.41	576.0	-0.3	-0.01	ZZ
KVXNV		652.0	38.7	1.30	618.5	42.2	1.50	ZZ
KYUJAG		606.5	-6.8	-0.23	547.5	-28.8	-1.02	ZZ
L7C6ZZ		597.0	-16.3	-0.55	560.5	-15.8	-0.56	ZZ
LMV6MP		585.5	-27.8	-0.93	580.0	3.7	0.13	ZZ
MQDMH		628.5	15.2	0.51	586.0	9.7	0.34	ZZ
MUC28P		604.5	-8.8	-0.29	593.0	16.7	0.59	ZZ
NDAEKX		607.5	-5.8	-0.19	587.5	11.2	0.40	ZZ
QFJDPM		624.0	10.7	0.36	597.5	21.2	0.75	ZZ
QTQNUN		642.5	29.2	0.98	600.0	23.7	0.84	ZZ
REMMT8		616.8	3.5	0.12	559.7	-16.6	-0.59	ZZ
RND692		572.0	-41.3	-1.39	542.0	-34.3	-1.21	ZZ
RYTWVP		665.5	52.2	1.76	617.0	40.7	1.44	ZZ
TFD22H		644.0	30.7	1.03	599.5	23.2	0.82	ZZ
TTKVAL		578.5	-34.8	-1.17	533.0	-43.3	-1.53	ZZ
UAPK2C	*	630.9	17.6	0.59	541.6	-34.7	-1.23	ZZ
UPEPA7		542.5	-70.8	-2.38	525.5	-50.8	-1.80	ZZ
UTK7PP		621.5	8.2	0.28	591.0	14.7	0.52	ZZ
VGJAVL		611.0	-2.3	-0.08	568.5	-7.8	-0.27	ZZ
XLPFVP		619.0	5.7	0.19	542.0	-34.3	-1.21	ZZ
ZCUE6P		612.0	-1.3	-0.04	582.0	5.7	0.20	ZZ

Analysis 631

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

		Summary Statistics	
Grand Means	613.26 percent		576.26 percent
Std Dev Btwn Labs	29.74 percent		28.24 percent
Statistics based on 35 of 36 reporting participants			

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #631

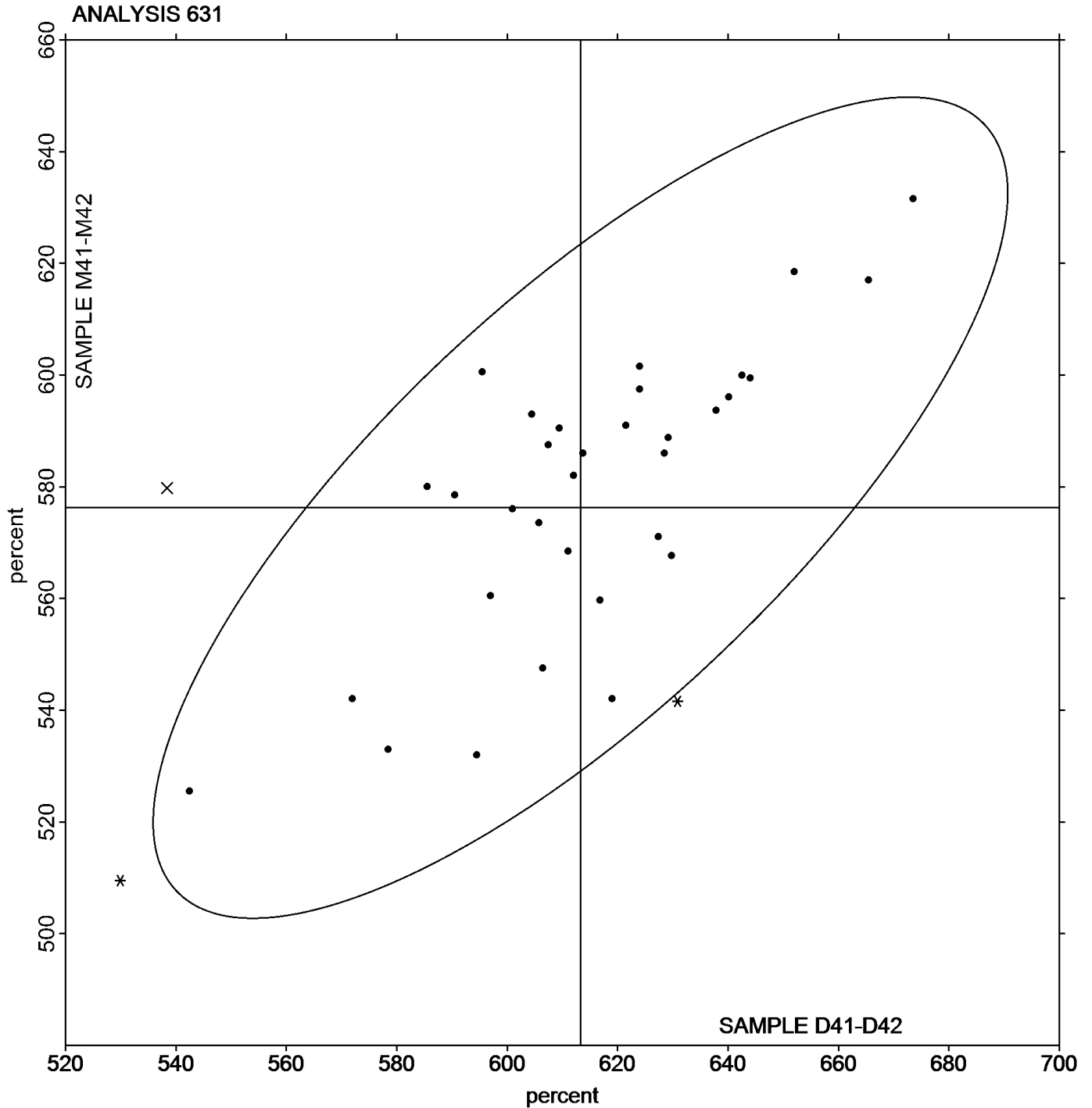
A38KZ6 (X) - Inconsistency in testing between Sample groups.

Analysis 631

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

Grand Mean Sample D41-D42 = 613.26 percent

Grand Mean Sample M41-M42 = 576.26 percent



Analysis 632

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

WebCode	Data Flag	Sample D41-D42			Sample M41-M42			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3RFNX6		1,181.8	150.1	1.46	1,272.0	149.6	1.32	ZZ
4RV6VJ		908.5	-123.1	-1.19	1,077.5	-44.9	-0.39	ZZ
6H3DJB		1,173.1	141.5	1.37	1,160.8	38.4	0.34	ZZ
7GKL97		1,033.0	1.4	0.01	1,063.5	-58.9	-0.52	ZZ
8NGXLE		1,052.9	21.3	0.21	1,239.4	117.0	1.03	ZZ
94ATTY		991.4	-40.3	-0.39	1,075.6	-46.7	-0.41	ZZ
964GA9		969.4	-62.2	-0.60	1,234.8	112.4	0.99	ZZ
A38KZ6	*	1,348.1	316.4	3.07	1,057.3	-65.1	-0.57	ZZ
AE4QU4		960.2	-71.5	-0.69	1,124.8	2.4	0.02	ZZ
AH36GT	*	1,098.5	66.9	0.65	799.5	-322.9	-2.84	ZZ
B38X6D		1,030.0	-1.6	-0.02	1,191.6	69.3	0.61	ZZ
CBYU87		960.0	-71.6	-0.70	1,131.7	9.3	0.08	ZZ
CXW4P8		1,069.7	38.0	0.37	1,147.3	24.9	0.22	ZZ
EJ6JXA		1,024.2	-7.4	-0.07	1,225.7	103.3	0.91	ZZ
F8KEHX		1,037.5	5.9	0.06	1,036.5	-85.9	-0.76	ZZ
HTHETR		1,085.0	53.4	0.52	1,183.0	60.6	0.53	ZZ
KVXNV	*	912.0	-119.6	-1.16	834.5	-287.9	-2.53	ZZ
KYUJAG		977.5	-54.1	-0.53	1,171.0	48.6	0.43	ZZ
L7C6ZZ		971.0	-60.6	-0.59	1,111.7	-10.6	-0.09	ZZ
LMV6MP		1,160.5	128.9	1.25	1,077.0	-45.4	-0.40	ZZ
MQDMH		997.1	-34.5	-0.33	1,142.9	20.5	0.18	ZZ
MUC28P		1,104.1	72.5	0.70	1,079.7	-42.7	-0.38	ZZ
NDAEKX		1,011.5	-20.1	-0.20	946.0	-176.4	-1.55	ZZ
QFJDPM		1,016.0	-15.6	-0.15	1,118.0	-4.4	-0.04	ZZ
QTQNUN		958.0	-73.6	-0.71	1,064.0	-58.4	-0.51	ZZ
REMMT8		1,000.8	-30.9	-0.30	1,265.5	143.1	1.26	ZZ
RND692		1,084.2	52.5	0.51	1,265.5	143.1	1.26	ZZ
RYTWVP		875.0	-156.6	-1.52	1,045.0	-77.4	-0.68	ZZ
TFD22H		912.5	-119.1	-1.16	1,180.5	58.1	0.51	ZZ
TTKVAL		1,038.4	6.8	0.07	1,241.2	118.8	1.05	ZZ
UAPK2C		1,021.5	-10.2	-0.10	911.3	-211.1	-1.86	ZZ
UPEPA7	*	1,310.4	278.8	2.71	1,207.7	85.4	0.75	ZZ
UTK7PP		974.7	-57.0	-0.55	1,229.2	106.8	0.94	ZZ
VGJAVL		946.2	-85.4	-0.83	1,167.5	45.1	0.40	ZZ
XLPFVP		953.5	-78.1	-0.76	1,182.0	59.6	0.53	ZZ
ZCUE6P		990.5	-41.1	-0.40	1,144.0	21.6	0.19	ZZ

Analysis 632

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

Summary Statistics

Grand Means

1,031.62 psi

1,122.36 psi

Std Dev Btwn Labs

103.04 psi

113.58 psi

Statistics based on 36 of 36 reporting participants

Summary Statistics in SI Units

Grand Means

7.1127 MPa

7.74 MPa

Std Dev Btwn Labs

0.7104 MPa

0.78 MPa

Statistics based on 36 of 36 reporting participants

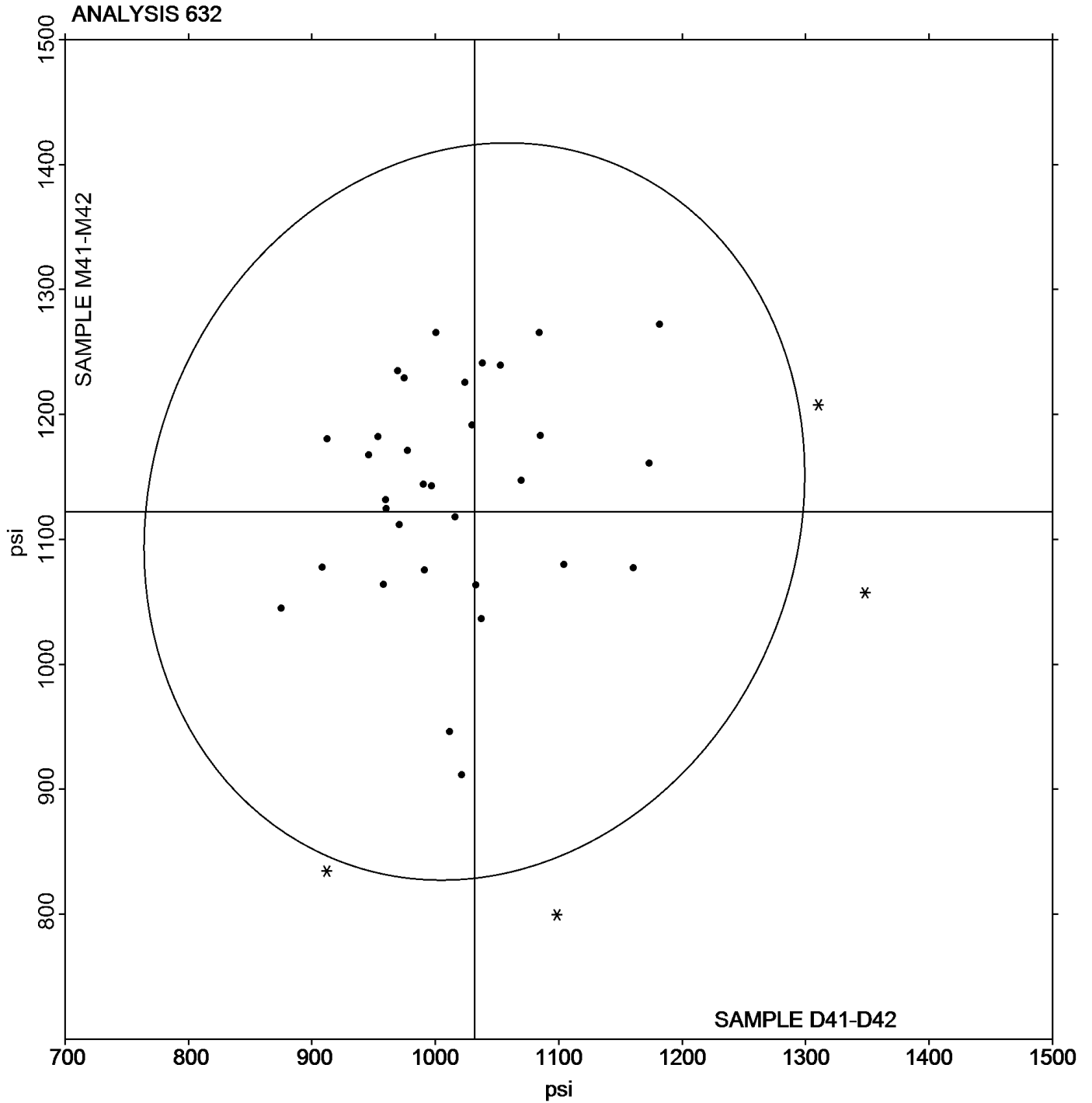
All samples : Polyisoprene compound, batch #1

Analysis 632

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

Grand Mean Sample D41-D42 = 1,031.62 psi

Grand Mean Sample M41-M42 = 1,122.36 psi



Analysis 633

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

WebCode	Data Flag	Sample D41-D42			Sample M41-M42			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3RFNX6		244.3	27.9	1.18	272.0	32.8	1.65	ZZ
4RV6VJ		205.5	-10.9	-0.46	255.5	16.3	0.82	ZZ
6H3DJB		244.7	28.3	1.20	246.7	7.4	0.37	ZZ
7GKL97		223.0	6.6	0.28	228.0	-11.2	-0.56	ZZ
8NGXLE		221.2	4.8	0.20	269.6	30.3	1.53	ZZ
94ATTY		217.1	0.6	0.03	230.7	-8.6	-0.43	ZZ
964GA9		199.5	-17.0	-0.72	259.0	19.7	0.99	ZZ
A38KZ6	*	293.3	76.8	3.26	232.2	-7.0	-0.35	ZZ
AE4QU4		198.0	-18.5	-0.78	239.3	0.1	0.00	ZZ
AH36GT		251.0	34.6	1.47	201.0	-38.2	-1.92	ZZ
B38X6D		215.9	-0.6	-0.02	247.3	8.1	0.41	ZZ
CBYU87		193.9	-22.5	-0.96	231.8	-7.4	-0.37	ZZ
CXW4P8		227.0	10.6	0.45	245.1	5.9	0.30	ZZ
EJ6JXA		208.1	-8.3	-0.35	235.6	-3.6	-0.18	ZZ
F8KEHX		223.0	6.6	0.28	226.5	-12.7	-0.64	ZZ
HTHETR		232.5	16.1	0.68	263.0	23.8	1.20	ZZ
KVXNV	*	197.5	-18.9	-0.80	178.5	-60.7	-3.05	ZZ
KYUJAG		196.0	-20.4	-0.87	243.5	4.3	0.22	ZZ
L7C6ZZ		198.7	-17.7	-0.75	230.6	-8.6	-0.43	ZZ
LMV6MP		246.5	30.1	1.28	225.0	-14.2	-0.72	ZZ
MQDMH		213.2	-3.2	-0.14	251.6	12.4	0.63	ZZ
MUC28P		238.2	21.8	0.92	240.3	1.0	0.05	ZZ
NDAEKX		199.0	-17.4	-0.74	200.5	-38.7	-1.95	ZZ
QFJDPM		211.5	-4.9	-0.21	234.5	-4.7	-0.24	ZZ
QTQNUN		208.5	-7.9	-0.34	238.5	-0.7	-0.04	ZZ
REMMT8		198.7	-17.7	-0.75	250.9	11.7	0.59	ZZ
RND692		225.5	9.1	0.39	255.3	16.1	0.81	ZZ
RYTWVP		185.5	-30.9	-1.31	221.5	-17.7	-0.89	ZZ
TFD22H		187.5	-28.9	-1.23	246.0	6.8	0.34	ZZ
TTKVAL		212.9	-3.5	-0.15	260.7	21.5	1.08	ZZ
UAPK2C		228.7	12.3	0.52	206.8	-32.4	-1.63	ZZ
UPEPA7		260.7	44.2	1.88	245.2	5.9	0.30	ZZ
UTK7PP		198.0	-18.5	-0.78	258.2	19.0	0.95	ZZ
VGJAVL		190.5	-25.9	-1.10	250.2	10.9	0.55	ZZ
XLPFVP		191.0	-25.4	-1.08	246.5	7.3	0.37	ZZ
ZCUE6P		205.5	-10.9	-0.46	244.5	5.3	0.27	ZZ

Analysis 633

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

Summary Statistics

Grand Means

216.43 psi

239.22 psi

Std Dev Btwn Labs

23.57 psi

19.88 psi

Statistics based on 36 of 36 reporting participants

Summary Statistics in SI Units

Grand Means

1.4922 MPa

1.65 MPa

Std Dev Btwn Labs

0.1625 MPa

0.14 MPa

Statistics based on 36 of 36 reporting participants

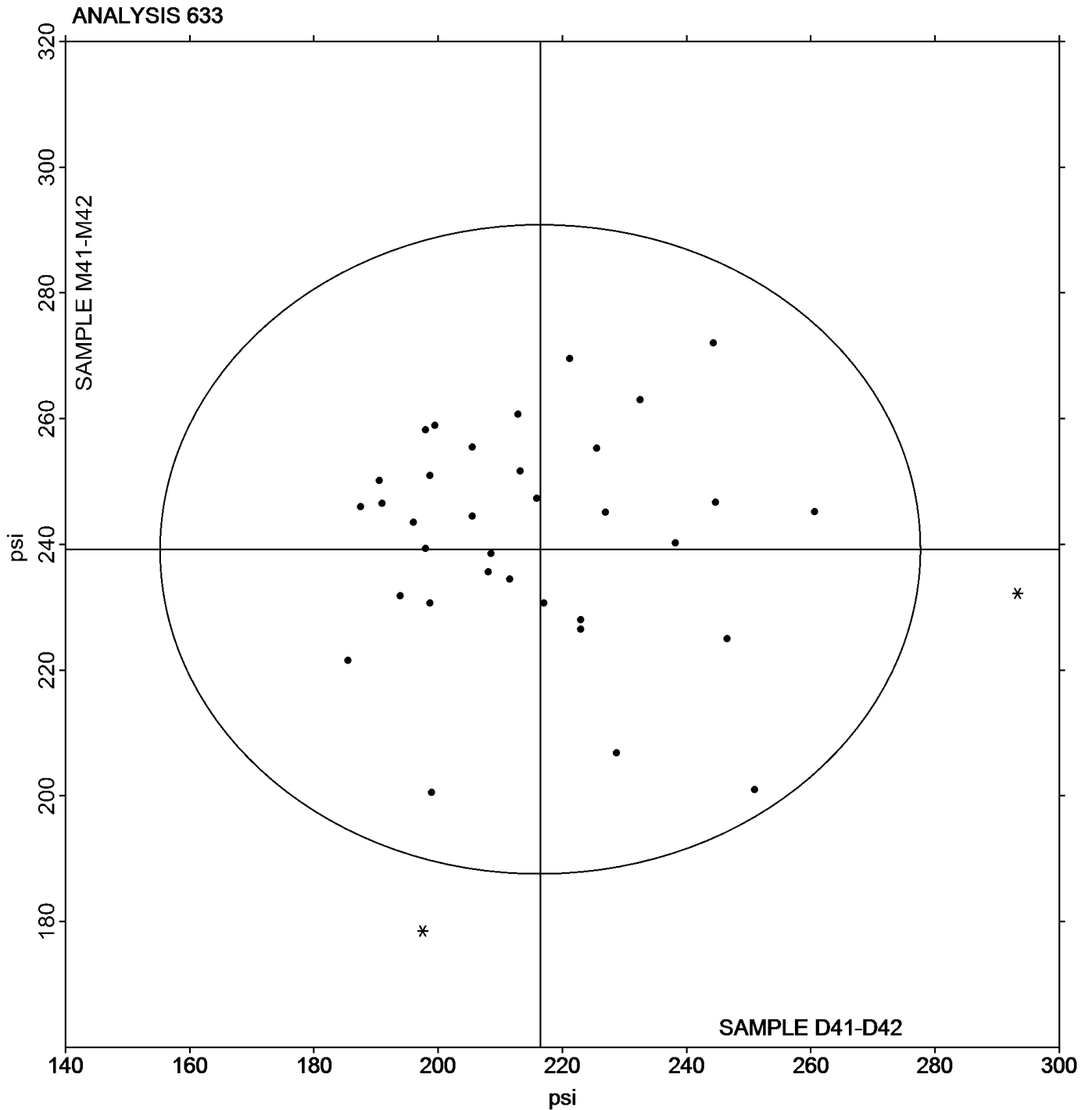
All samples : Polyisoprene compound, batch #1

Analysis 633

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

Grand Mean Sample D41-D42 = 216.43 psi

Grand Mean Sample M41-M42 = 239.22 psi



Rubber Interlaboratory Testing Program

Analysis 660

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

WebCode	Data Flag	Sample V41-V42			Sample V43-V44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		45.43	-1.07	-0.86	52.70	-2.08	-1.30	MR
3RFNX6		47.58	1.08	0.87	55.78	1.01	0.63	MR
6H3DJB		46.46	-0.05	-0.04	55.89	1.11	0.70	TV
8NGXLE		46.38	-0.12	-0.10	54.63	-0.14	-0.09	XX
964GA9		47.37	0.86	0.69	55.77	0.99	0.62	MR
A38KZ6		47.17	0.66	0.53	54.42	-0.36	-0.23	MR
AE4QU4		45.87	-0.64	-0.51	54.23	-0.54	-0.34	MR
AKRBY6		46.40	-0.10	-0.08	55.57	0.79	0.49	MR
AVTUHK		47.52	1.01	0.81	56.20	1.42	0.89	MR
B38X6D		46.28	-0.22	-0.18	54.91	0.13	0.08	MR
CEF3TK		44.68	-1.82	-1.46	52.75	-2.03	-1.27	MR
CXW4P8		47.07	0.56	0.45	55.65	0.87	0.55	MR
D3GTGV	*	43.30	-3.20	-2.57	50.10	-4.68	-2.93	MR
F8KEHX		48.32	1.81	1.45	57.03	2.26	1.41	MR
H42WLX		48.57	2.06	1.66	57.33	2.56	1.60	MR
HTHETR		46.13	-0.37	-0.30	53.38	-1.39	-0.87	MR
KGBNU		45.20	-1.30	-1.05	52.62	-2.16	-1.35	MR
KPUK6P		47.82	1.31	1.05	56.27	1.49	0.93	MR
KYUJAG	X	46.72	0.21	0.17	52.23	-2.54	-1.59	MR
L6Z9TA		46.20	-0.30	-0.24	54.82	0.04	0.02	MR
L7C6ZZ		46.68	0.18	0.14	55.65	0.87	0.55	MR
LMV6MP		46.72	0.21	0.17	55.32	0.54	0.34	MR
MUC28P		44.67	-1.84	-1.48	52.87	-1.91	-1.20	MR
MY8VZK		46.65	0.15	0.12	55.38	0.61	0.38	MR
PWDNVE		45.73	-0.77	-0.62	54.33	-0.45	-0.28	MR
QFJDPM		45.52	-0.98	-0.79	53.61	-1.16	-0.73	XX
REMMT8		46.60	0.10	0.08	54.43	-0.34	-0.22	MR
RXGZPK		45.85	-0.65	-0.53	53.55	-1.23	-0.77	MR
TBLTGN		47.18	0.68	0.55	56.12	1.34	0.84	MR
TTKVAL		44.81	-1.69	-1.36	52.72	-2.06	-1.29	TV
U9AKK9		45.88	-0.62	-0.50	54.95	0.17	0.11	MR
UAPK2C	*	50.07	3.56	2.86	58.42	3.64	2.28	TV
UPEPA7		46.45	-0.05	-0.04	53.80	-0.98	-0.61	MR
UTK7PP	X	51.55	5.04	4.05	60.69	5.91	3.70	TV
VBVKFH		47.93	1.42	1.14	56.37	1.59	1.00	MR
W98DTZ		46.20	-0.30	-0.24	54.30	-0.48	-0.30	MR
ZCUE6P		46.98	0.47	0.38	55.21	0.43	0.27	MR
ZEGX7M		46.50	0.00	0.00	54.90	0.12	0.08	TV

Analysis 660

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

		Summary Statistics	
Grand Means	46.504 ML 1 + 4	54.777	ML 1 + 4
Stnd Dev Btwn Labs	1.246 ML 1 + 4	1.598	ML 1 + 4
Statistics based on 36 of 38 reporting participants			

Samples V41-V42: SBR & V43-V44: Butyl

Comments on assigned Data Flags for Test #660

KYUJAG (X) - Inconsistency in testing between Sample groups.

UTK7PP (X) - Data for all Samples are high. Inconsistency in testing within Sample group V43-V44.

Instrument Code Listing

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

Instruments:

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

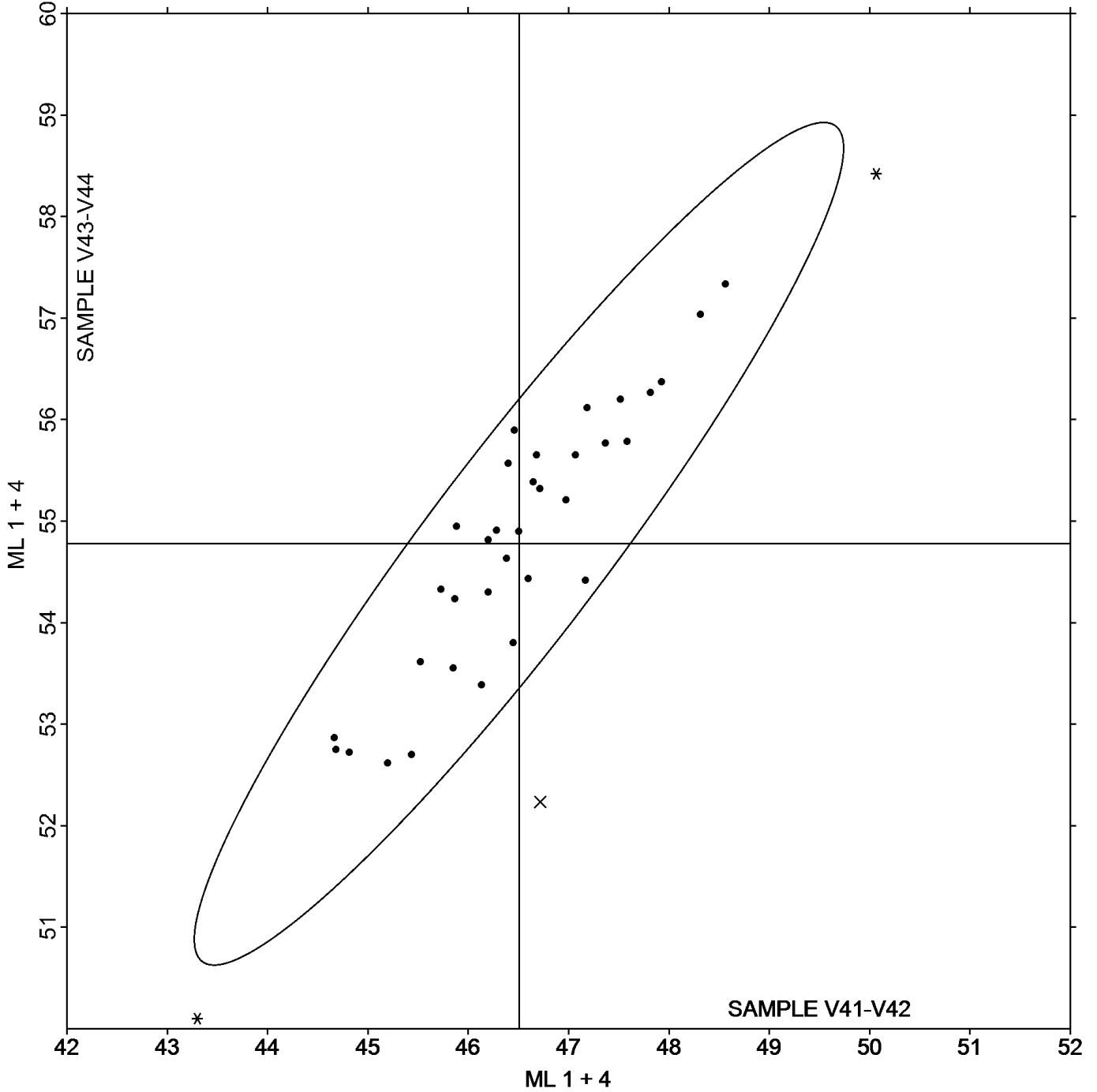
Analysis 660

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

Grand Mean Sample V41-V42 = 46.504 ML 1 + 4

Grand Mean Sample V43-V44 = 54.777 ML 1 + 4

ANALYSIS 660



Analysis 661

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

WebCode	Data Flag	Sample V41-V42			Sample V43-V44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		45.43	-1.09	-0.85	50.12	-1.91	-1.41	MR
3RFNX6		47.58	1.06	0.83	53.07	1.04	0.77	MR
6H3DJB		46.46	-0.07	-0.05	53.21	1.18	0.87	XX
8NGXLE		46.38	-0.14	-0.11	53.07	1.04	0.77	XX
964GA9		47.37	0.84	0.66	52.83	0.81	0.59	MR
A38KZ6		47.17	0.64	0.50	51.57	-0.46	-0.34	MR
AE4QU4		45.87	-0.66	-0.52	51.75	-0.28	-0.20	MR
AKRBY6		46.40	-0.13	-0.10	52.78	0.76	0.56	MR
AVTUHK		47.52	0.99	0.78	52.57	0.54	0.40	MR
B38X6D		46.28	-0.24	-0.19	52.17	0.14	0.10	MR
CEF3TK		44.68	-1.84	-1.44	50.20	-1.83	-1.35	MR
CXW4P8		47.07	0.54	0.42	52.47	0.44	0.32	MR
D3GTGV	*	43.30	-3.23	-2.52	49.80	-2.23	-1.64	XX
F8KEHX		48.32	1.79	1.40	54.58	2.56	1.88	MR
H42WLX		48.57	2.04	1.60	52.68	0.66	0.48	MR
HTHETR		46.13	-0.39	-0.31	51.37	-0.66	-0.49	MR
KGBNU		45.20	-1.33	-1.04	50.00	-2.03	-1.49	MR
KPUK6P		47.82	1.29	1.01	53.02	0.99	0.73	MR
KYUJAG		46.72	0.19	0.15	52.23	0.21	0.15	MR
L6Z9TA		46.20	-0.33	-0.25	51.60	-0.43	-0.31	MR
L7C6ZZ		46.68	0.16	0.12	52.70	0.67	0.50	MR
LMV6MP		46.72	0.19	0.15	52.58	0.56	0.41	MR
MUC28P		44.67	-1.86	-1.45	50.32	-1.71	-1.26	MR
PWDNVE		45.73	-0.80	-0.62	51.67	-0.35	-0.26	MR
QFJDPM		45.52	-1.00	-0.78	50.23	-1.80	-1.32	XX
REMMT8		46.60	0.07	0.06	51.75	-0.28	-0.20	MR
TBLTGN		47.18	0.66	0.51	53.35	1.32	0.98	MR
TTKVAL		44.81	-1.71	-1.34	49.29	-2.74	-2.02	TV
U9AKK9		45.88	-0.64	-0.50	52.35	0.32	0.24	MR
UAPK2C	*	50.07	3.54	2.77	55.46	3.43	2.53	TV
UPEPA7		46.45	-0.08	-0.06	50.95	-1.08	-0.79	XX
UTK7PP	X	51.55	5.02	3.93	60.91	8.89	6.55	TV
VBVKFH		47.93	1.40	1.10	53.02	1.00	0.73	XX
W98DTZ		46.20	-0.33	-0.25	51.80	-0.23	-0.17	MR
ZCUE6P		46.98	0.45	0.35	52.35	0.33	0.24	MR
ZEGX7M	X	46.50	-0.02	-0.02	55.23	3.20	2.36	TV

Analysis 661

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

		Summary Statistics	
Grand Means	46.526 ML 1 + 8	52.026 ML 1 + 8	
Std Dev Btwn Labs	1.278 ML 1 + 8	1.357 ML 1 + 8	
Statistics based on 34 of 36 reporting participants			

Please refer to the sample information provided for Analysis 660.

Comments on assigned Data Flags for Test #661

UTK7PP (X) - Data for all Samples are high. Possible systematic error. Inconsistency in testing within Sample group V43-V44.

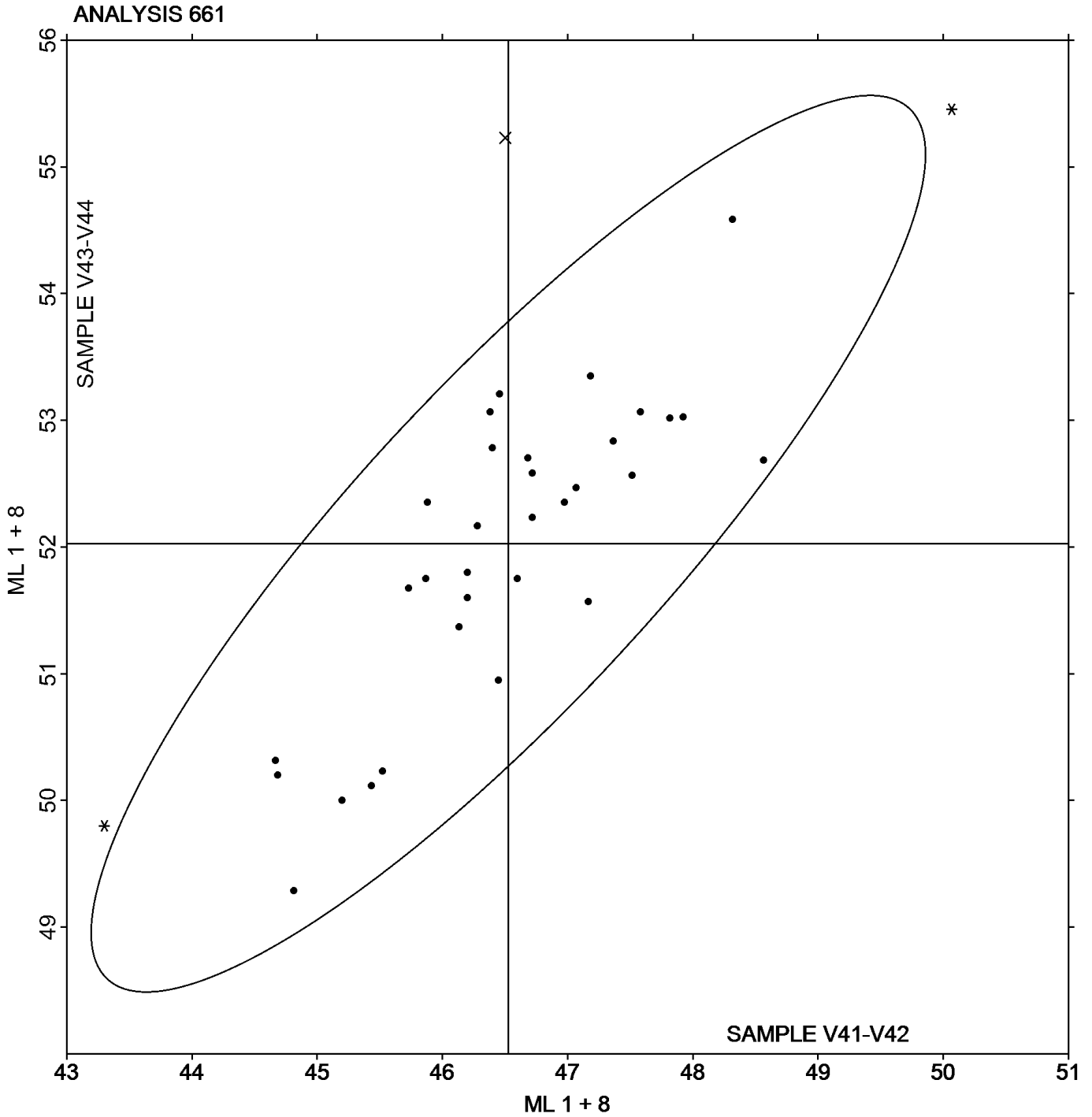
ZEGX7M (X) - Inconsistency in testing between Sample groups.

Analysis 661

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

Grand Mean Sample V41-V42 = 46.526 ML 1 + 8

Grand Mean Sample V43-V44 = 52.026 ML 1 + 8



Analysis 662

Mooney Stress Relaxation: t80 (seconds)

WebCode	Data Flag	Sample V41-V42			Sample V43-V44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3RFNX6		10.67	-1.37	-0.48	7.187	-0.421	-0.41	MR
964GA9	M	No data reported for this sample			6.783	-0.824	-0.80	MR
A38KZ6		16.65	4.61	1.61	8.187	0.579	0.56	XX
AE4QU4		11.17	-0.87	-0.30	7.333	-0.274	-0.27	MR
KYUJAG		11.12	-0.91	-0.32	7.200	-0.407	-0.40	MR
L6Z9TA		11.40	-0.64	-0.22	7.200	-0.407	-0.40	MR
L7C6ZZ		8.86	-3.18	-1.11	6.553	-1.054	-1.03	MR
LMV6MP		10.81	-1.22	-0.43	7.363	-0.244	-0.24	MR
RXGZPK		11.50	-0.54	-0.19	7.800	0.193	0.19	MR
U9AKK9		9.08	-2.96	-1.03	6.552	-1.056	-1.03	MR
UAPK2C	X	3,848.30	3,836.27	1,342.70	1,379.100	1,371.493	1,337.08	TV
UPEPA7		11.16	-0.88	-0.31	6.890	-0.717	-0.70	MR
W98DTZ	*	11.05	-0.99	-0.35	10.160	2.553	2.49	MR
ZCUE6P		14.19	2.15	0.75	7.352	-0.256	-0.25	MR
ZEGX7M		18.81	6.77	2.37	9.120	1.513	1.47	TV

Summary Statistics

Grand Means

12.035 seconds

7.6074 seconds

Std Dev Btwn Labs

2.857 seconds

1.0257 seconds

Statistics based on 13 of 15 reporting participants

Samples V41-V42: SBR & V43-V44: Butyl

Comments on assigned Data Flags for Test #662

964GA9 (M) - Data not reported for Sample group V41-V42.

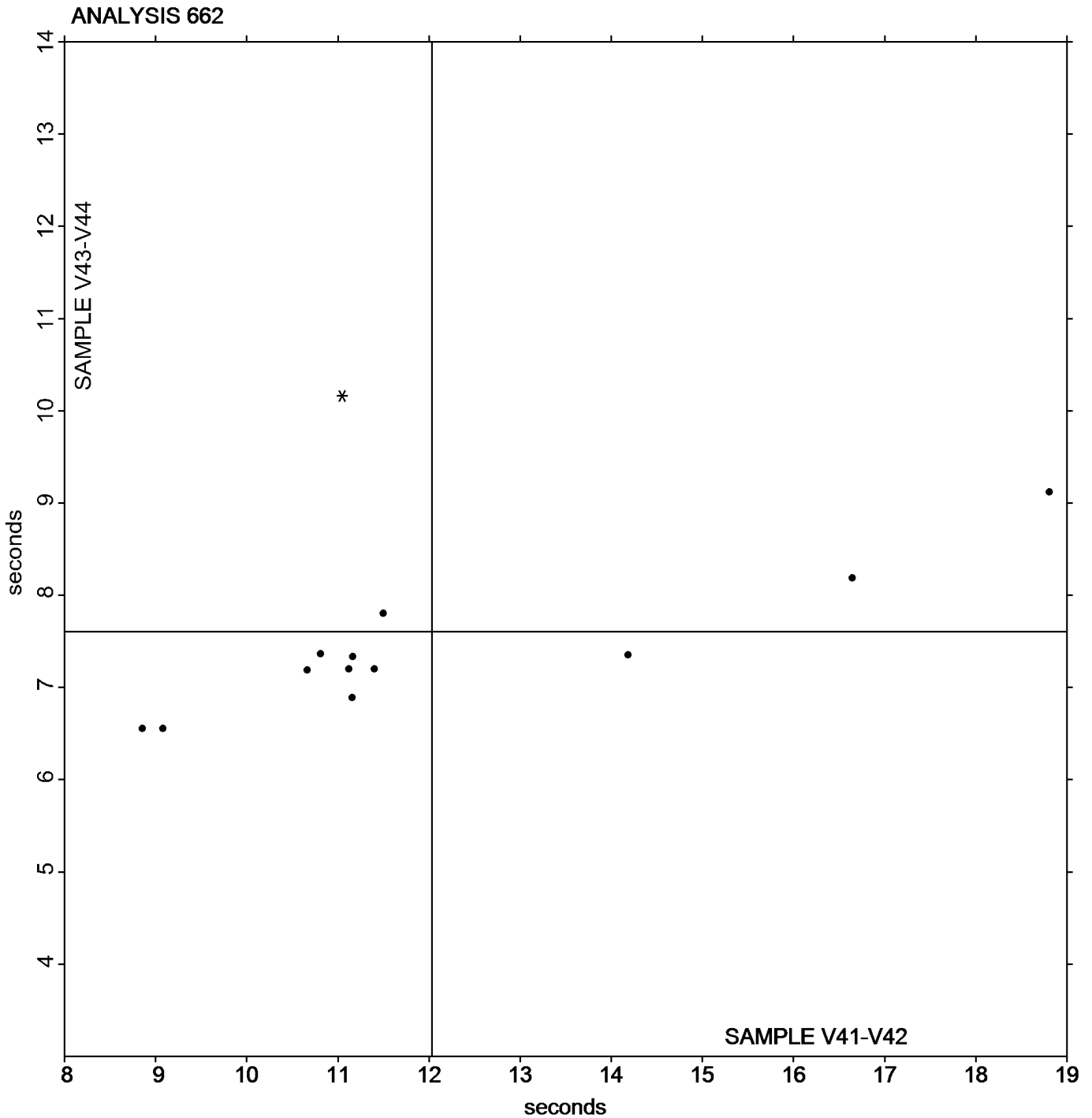
UAPK2C (X) - Extreme data.

Analysis 662

Mooney Stress Relaxation: t80 (seconds)

Grand Mean Sample V41-V42 = 12.035 seconds

Grand Mean Sample V43-V44 = 7.6074 seconds



Analysis 663

Mooney Stress Relaxation: X30 (percent)

WebCode	Data Flag	Sample V41-V42			Sample V43-V44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3RFNX6		86.51	0.88	0.31	92.12	0.08	0.07	MR
964GA9	M	No data reported for this sample			744.55	652.51	628.91	MR
A38KZ6		83.25	-2.39	-0.85	89.98	-2.06	-1.98	XX
AE4QU4		86.70	1.06	0.38	92.60	0.56	0.54	MR
KYUJAG		86.48	0.85	0.30	92.12	0.08	0.08	MR
L6Z9TA		86.25	0.61	0.22	92.13	0.09	0.09	MR
L7C6ZZ		87.67	2.04	0.72	91.71	-0.33	-0.32	MR
LMV6MP		86.77	1.13	0.40	91.89	-0.15	-0.15	MR
U9AKK9		88.23	2.60	0.92	93.89	1.85	1.78	MR
UAPK2C	X	73.65	-11.98	-4.26	82.62	-9.42	-9.08	TV
UPEPA7		86.58	0.94	0.34	92.94	0.90	0.87	MR
W98DTZ		86.52	0.88	0.31	92.48	0.44	0.43	MR
ZCUE6P		85.03	-0.60	-0.21	92.22	0.18	0.18	MR
ZEGX7M		77.63	-8.00	-2.85	90.40	-1.64	-1.58	TV

Summary Statistics	
Grand Means	
85.636 percent	92.039 percent
Std Dev Btwn Labs	
2.811 percent	1.038 percent
Statistics based on 12 of 14 reporting participants	

Samples V41-V42: SBR & V43-V44: Butyl

Comments on assigned Data Flags for Test #663

964GA9 (M) - Data not reported for Sample group V41-V42.

UAPK2C (X) - Extreme data.

A38KZ6 - Data appear to be reported as percent decay and not X30. Data corrected by CTS.

KYUJAG - Data appear to be reported as percent decay and not X30. Data corrected by CTS.

LMV6MP - Data appear to be reported as percent decay and not X30. Data corrected by CTS.

U9AKK9 - Data appear to be reported as percent decay and not X30. Data corrected by CTS.

UPEPA7 - Data appear to be reported as percent decay and not X30. Data corrected by CTS.

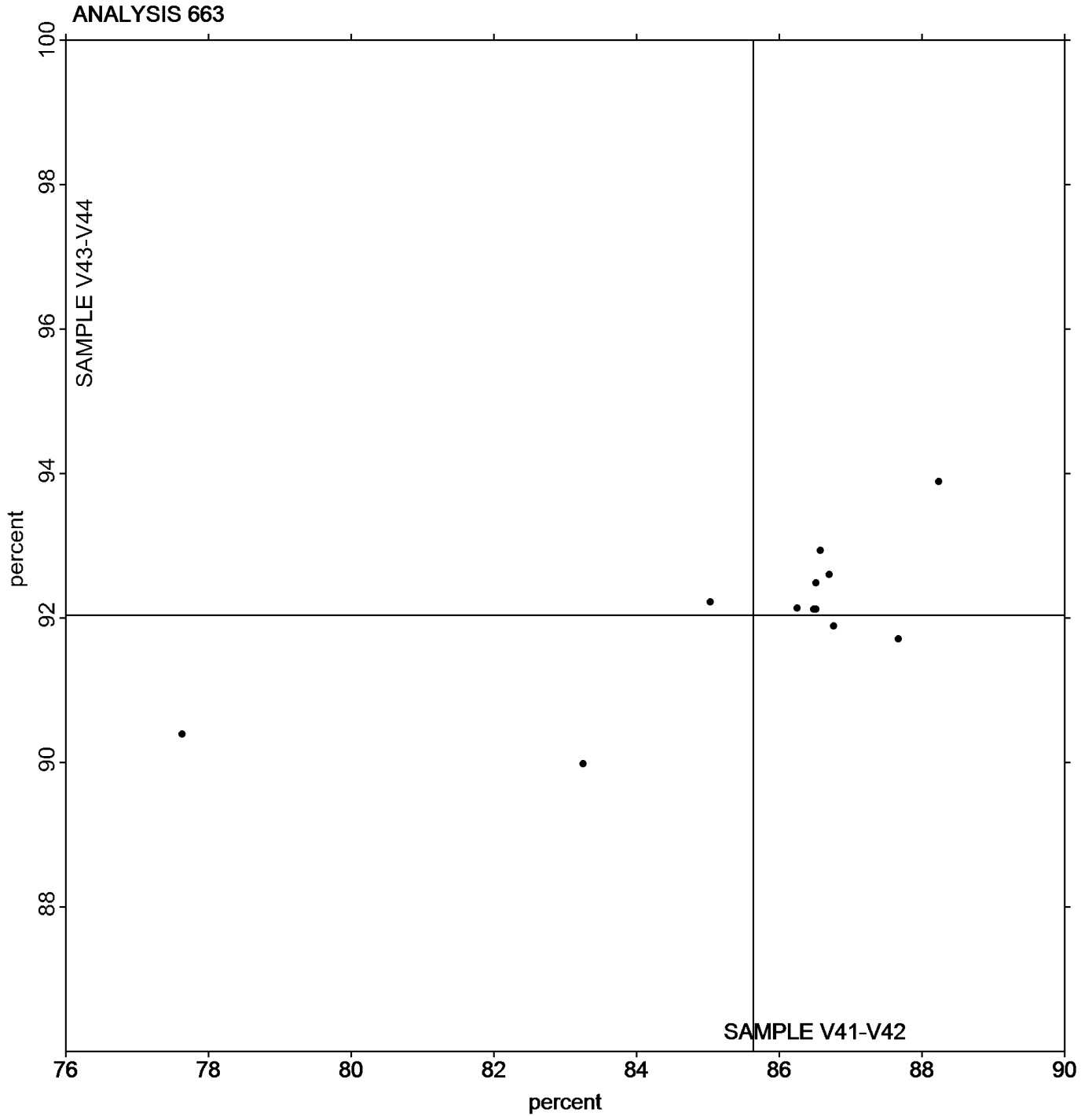
W98DTZ - Data appear to be reported as percent decay and not X30. Data corrected by CTS.

Analysis 663

Mooney Stress Relaxation: X30 (percent)

Grand Mean Sample V41-V42 = 85.636 percent

Grand Mean Sample V43-V44 = 92.039 percent



Analysis 664

Mooney Stress Relaxation: Area under curve (M-s)

WebCode	Data Flag	Sample V41-V42			Sample V43-V44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3RFNX6		692.9	-8.5	-0.10	472.9	-20.4	-0.17	MR
A38KZ6	X	0.3	-701.1	-8.01	0.5	-492.8	-4.21	XX
AE4QU4		657.2	-44.3	-0.51	439.5	-53.8	-0.46	XX
KYUJAG		683.8	-17.6	-0.20	466.3	-27.0	-0.23	MR
L6Z9TA		687.5	-14.0	-0.16	462.4	-30.9	-0.26	MR
L7C6ZZ		629.7	-71.8	-0.82	510.9	17.6	0.15	MR
LMV6MP		664.5	-36.9	-0.42	482.3	-11.0	-0.09	MR
U9AKK9		576.3	-125.2	-1.43	359.9	-133.4	-1.14	MR
UAPK2C		836.8	135.3	1.55	828.0	334.7	2.86	TV
UPEPA7		672.1	-29.4	-0.34	410.0	-83.3	-0.71	MR
W98DTZ		673.6	-27.8	-0.32	442.0	-51.3	-0.44	MR
ZCUE6P		748.4	46.9	0.54	479.0	-14.3	-0.12	MR
ZEGX7M		894.9	193.4	2.21	566.5	73.2	0.63	TV

Summary Statistics

Grand Means

701.46 M-s

493.32 M-s

Std Dev Btwn Labs

87.53 M-s

116.92 M-s

Statistics based on 12 of 13 reporting participants

Samples V41-V42: SBR & V43-V44: Butyl

Comments on assigned Data Flags for Test #664

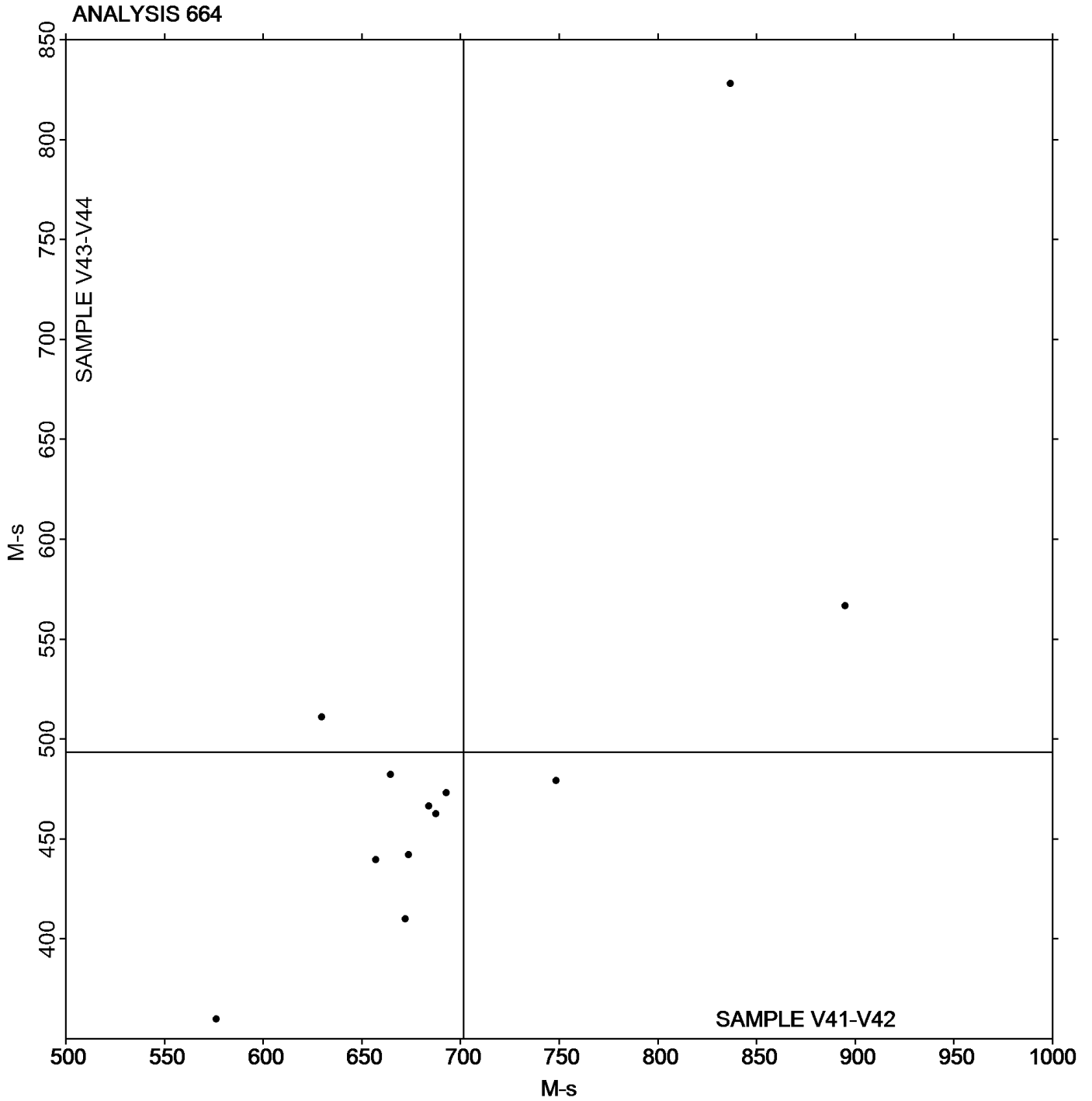
A38KZ6 (X) - Extreme data.

Analysis 664

Mooney Stress Relaxation: Area under curve (M-s)

Grand Mean Sample V41-V42 = 701.46 M-s

Grand Mean Sample V43-V44 = 493.32 M-s



Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Z41-Z42			Sample Z43-Z44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		1.905	-0.126	-1.16	1.685	-0.006	-0.02	ZZ
A38KZ6		2.185	0.154	1.43	2.042	0.350	0.92	ZZ
AKRBY6		1.972	-0.059	-0.55	1.657	-0.035	-0.09	ZZ
CBYU87		2.007	-0.024	-0.22	1.610	-0.081	-0.21	ZZ
CEF3TK		2.220	0.189	1.75	2.137	0.445	1.17	ZZ
CXW4P8		2.052	0.021	0.19	1.375	-0.316	-0.83	ZZ
HTHETR		1.932	-0.099	-0.92	0.987	-0.705	-1.84	ZZ
PWDNVE		1.933	-0.098	-0.90	1.173	-0.518	-1.36	ZZ
UAPK2C		2.150	0.119	1.10	2.085	0.394	1.03	ZZ
VBVKFH		1.977	-0.054	-0.50	1.933	0.242	0.63	ZZ
ZCUE6P		2.008	-0.023	-0.21	1.920	0.229	0.60	ZZ

Summary Statistics			
Grand Means	2.0309 minutes	1.6912 minutes	
Std Dev Btwn Labs	0.1081 minutes	0.3821 minutes	
Statistics based on 11 of 11 reporting participants			

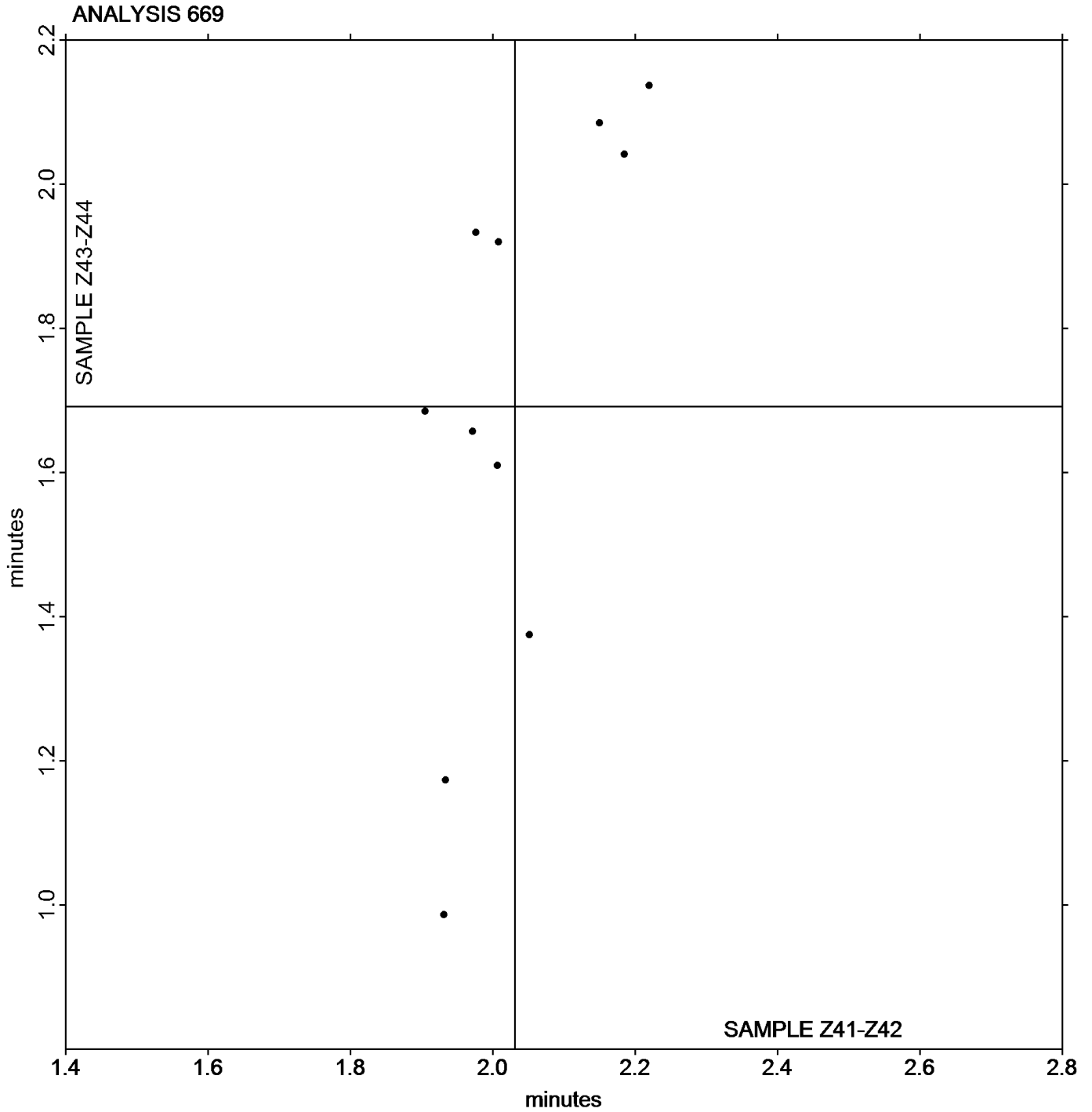
Samples Z41-Z42: EPDM compound #1 & Z43-Z44: EPDM compound #2

Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample Z41-Z42 = 2.0309 minutes

Grand Mean Sample Z43-Z44 = 1.6912 minutes



Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Z41-Z42			Sample Z43-Z44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		1.318	-0.138	-1.51	1.468	0.011	0.02	ZZ
A38KZ6		1.525	0.068	0.75	1.918	0.461	0.89	ZZ
AKRBY6		1.385	-0.072	-0.78	1.483	0.026	0.05	ZZ
CBYU87		1.467	0.010	0.11	1.445	-0.012	-0.02	ZZ
CEF3TK		1.642	0.185	2.02	2.008	0.551	1.06	ZZ
CXW4P8		1.445	-0.012	-0.13	0.648	-0.809	-1.56	ZZ
HTHETR		1.400	-0.057	-0.62	0.863	-0.594	-1.15	ZZ
PWDNVE		1.375	-0.082	-0.89	0.635	-0.822	-1.59	ZZ
UAPK2C		1.555	0.098	1.07	1.958	0.501	0.97	ZZ
VBVKFH		1.437	-0.020	-0.22	1.793	0.336	0.65	ZZ
ZCUE6P		1.477	0.020	0.22	1.810	0.353	0.68	ZZ

Summary Statistics

Grand Means

1.4568 minutes

1.4574 minutes

Std Dev Btwn Labs

0.0915 minutes

0.5185 minutes

Statistics based on 11 of 11 reporting participants

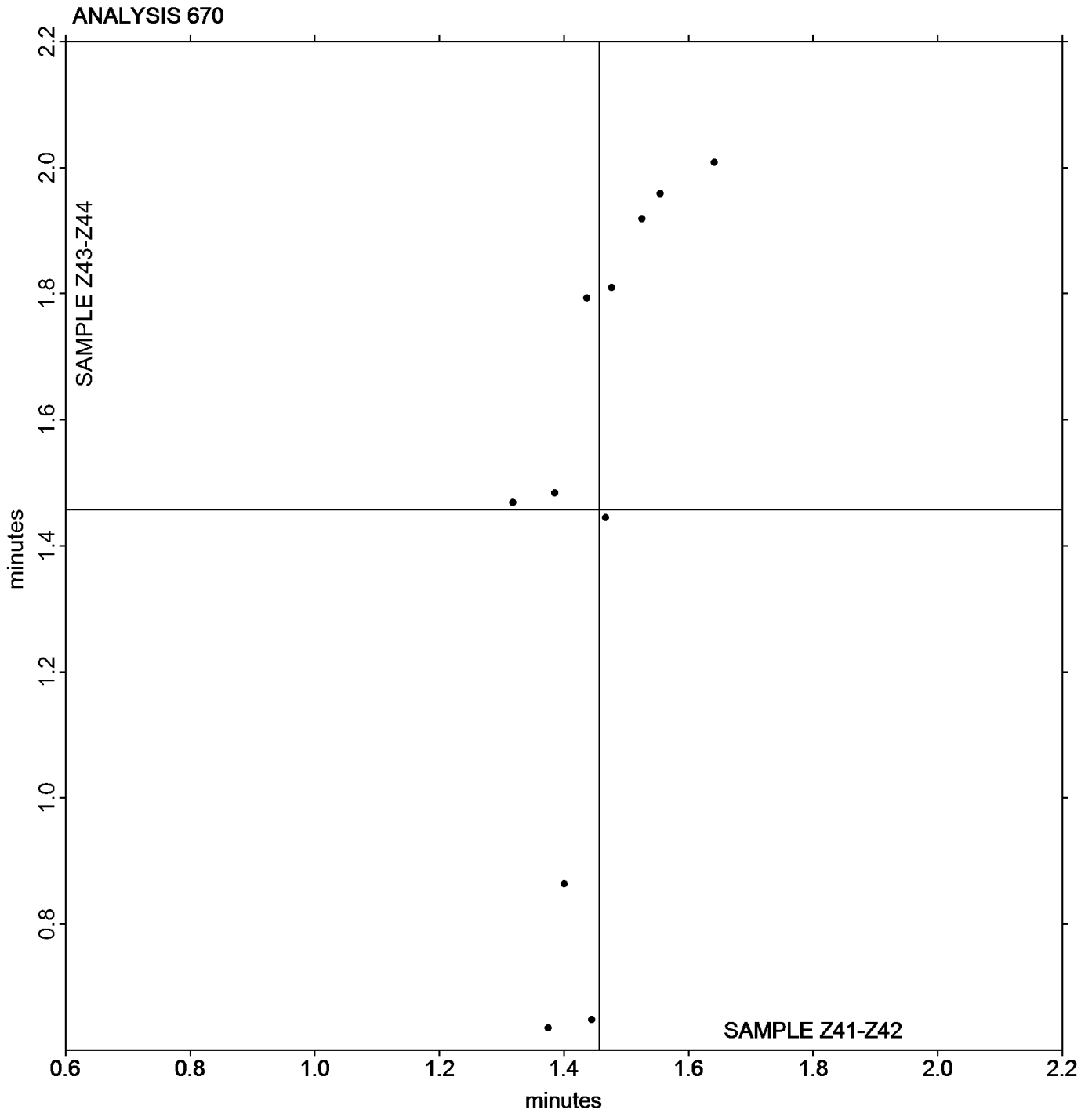
Samples Z41-Z42: EPDM compound #1 & Z43-Z44: EPDM compound #2

Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

Grand Mean Sample Z41-Z42 = 1.4568 minutes

Grand Mean Sample Z43-Z44 = 1.4574 minutes



Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Z41-Z42			Sample Z43-Z44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		4.005	-0.070	-0.37	3.047	-0.097	-0.37	ZZ
A38KZ6		4.345	0.270	1.41	3.258	0.115	0.44	ZZ
AKRBY6		4.022	-0.054	-0.28	2.885	-0.259	-0.99	ZZ
CBYU87		3.922	-0.154	-0.81	2.872	-0.272	-1.05	ZZ
CEF3TK		4.287	0.211	1.11	3.473	0.330	1.27	ZZ
CXW4P8		4.213	0.138	0.72	2.937	-0.207	-0.80	ZZ
HTHETR		3.907	-0.169	-0.88	3.060	-0.084	-0.32	ZZ
PWDNVE		3.857	-0.219	-1.15	2.942	-0.202	-0.78	ZZ
UAPK2C		4.365	0.290	1.52	3.690	0.546	2.10	ZZ
VBVKFH		3.893	-0.182	-0.95	3.148	0.005	0.02	ZZ
ZCUE6P		4.015	-0.060	-0.32	3.270	0.126	0.48	ZZ

Summary Statistics	
Grand Means	4.0755 minutes
	3.1438 minutes
Std Dev Btwn Labs	0.1910 minutes
	0.2602 minutes
Statistics based on 11 of 11 reporting participants	

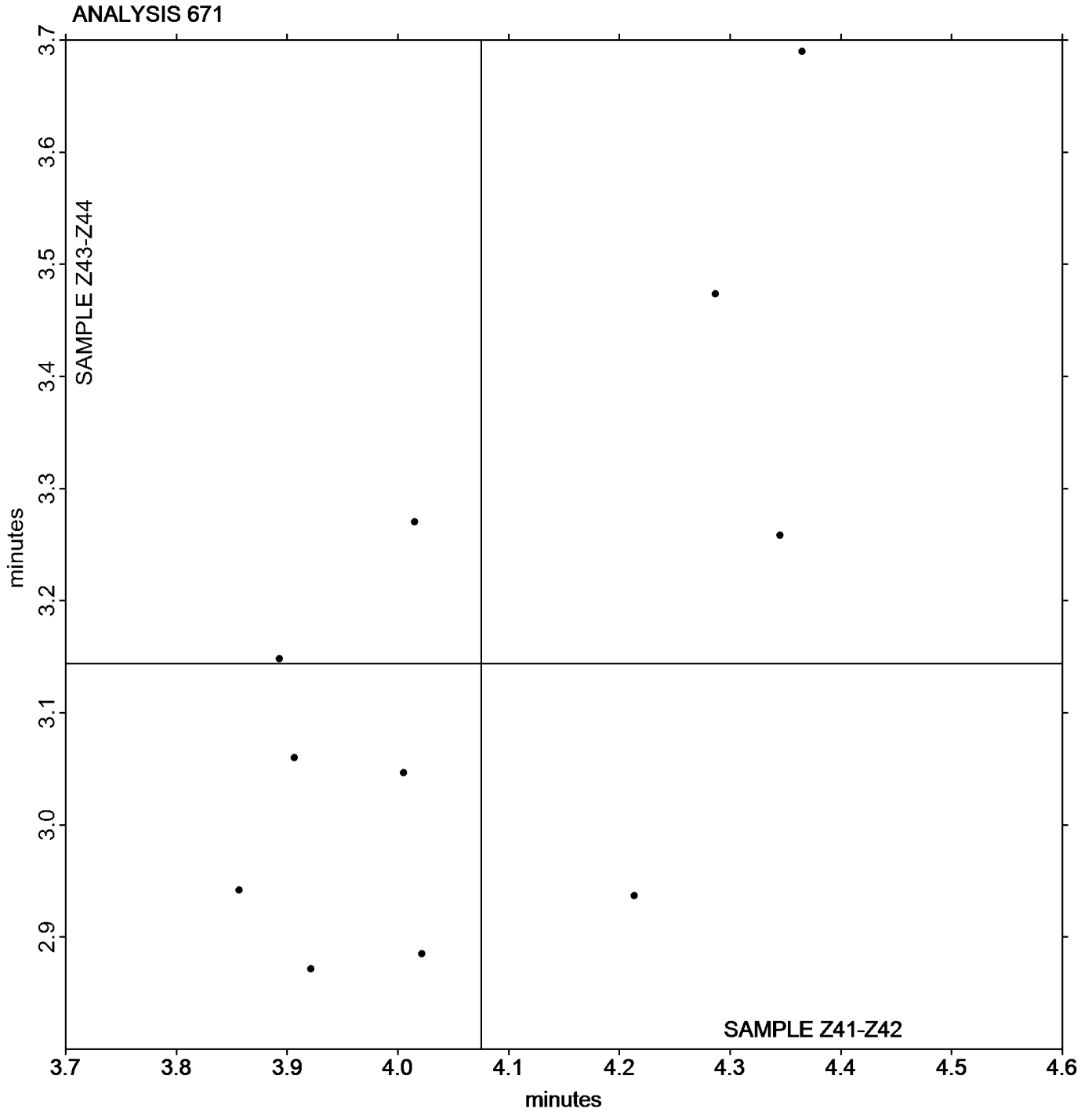
Samples Z41-Z42: EPDM compound #1 & Z43-Z44: EPDM compound #2

Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample Z41-Z42 = 4.0755 minutes

Grand Mean Sample Z43-Z44 = 3.1438 minutes



Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Z41-Z42			Sample Z43-Z44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		14.45	0.21	0.31	10.58	-0.45	-0.27	ZZ
A38KZ6		14.26	0.02	0.03	14.30	3.27	1.99	ZZ
AKRBY6		13.91	-0.33	-0.48	10.11	-0.92	-0.56	ZZ
CBYU87		13.02	-1.22	-1.80	9.62	-1.41	-0.86	ZZ
CEF3TK		14.00	-0.24	-0.35	10.85	-0.18	-0.11	ZZ
CXW4P8		14.72	0.49	0.71	8.21	-2.82	-1.72	ZZ
HTHETR		14.35	0.11	0.16	11.87	0.84	0.51	ZZ
PWDNVE		14.11	-0.13	-0.19	10.70	-0.33	-0.20	ZZ
UAPK2C		15.76	1.53	2.24	13.12	2.09	1.27	ZZ
VBVKFH		13.67	-0.57	-0.84	10.80	-0.23	-0.14	ZZ
ZCUE6P		14.38	0.14	0.20	11.18	0.15	0.09	ZZ

Summary Statistics

Grand Means

14.238 minutes

11.029 minutes

Std Dev Btwn Labs

0.681 minutes

1.643 minutes

Statistics based on 11 of 11 reporting participants

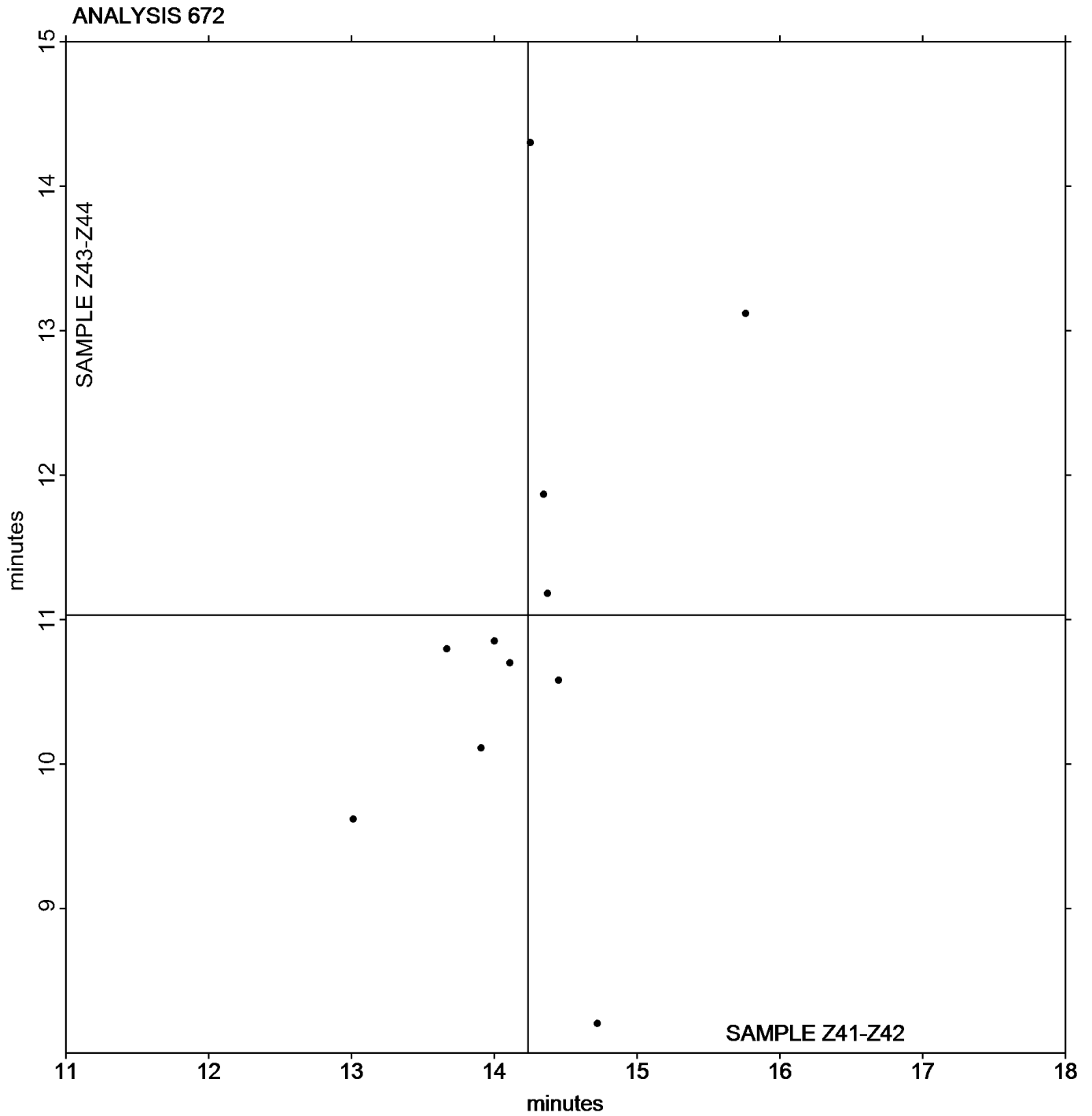
Samples Z41-Z42: EPDM compound #1 & Z43-Z44: EPDM compound #2

Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Z41-Z42 = 14.238 minutes

Grand Mean Sample Z43-Z44 = 11.029 minutes



Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Z41-Z42			Sample Z43-Z44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		5.967	0.626	1.47	27.76	1.72	0.57	ZZ
A38KZ6		5.373	0.033	0.08	26.79	0.75	0.25	ZZ
AKRBY6		5.000	-0.341	-0.80	24.17	-1.87	-0.62	ZZ
CBYU87		5.535	0.194	0.46	24.13	-1.91	-0.63	ZZ
CEF3TK		5.560	0.219	0.51	27.64	1.60	0.53	ZZ
CXW4P8		5.068	-0.272	-0.64	25.28	-0.76	-0.25	ZZ
HTHETR		4.715	-0.626	-1.47	23.21	-2.83	-0.94	ZZ
PWDNVE		4.917	-0.424	-0.99	21.96	-4.08	-1.36	ZZ
UAPK2C		6.090	0.749	1.76	33.18	7.14	2.38	ZZ
VBVKFH		5.308	-0.032	-0.08	26.83	0.79	0.26	ZZ
ZCUE6P		5.215	-0.126	-0.29	25.48	-0.56	-0.19	ZZ

Summary Statistics			
Grand Means	5.3408 lbf.in	26.039 lbf.in	
Std Dev Btwn Labs	0.4265 lbf.in	3.007 lbf.in	
Statistics based on 11 of 11 reporting participants			

Summary Statistics in SI Units			
Grand Means	6.0342 dN.m	29.420 dN.m	
Std Dev Btwn Labs	0.4818 dN.m	3.398 dN.m	
Statistics based on 11 of 11 reporting participants			

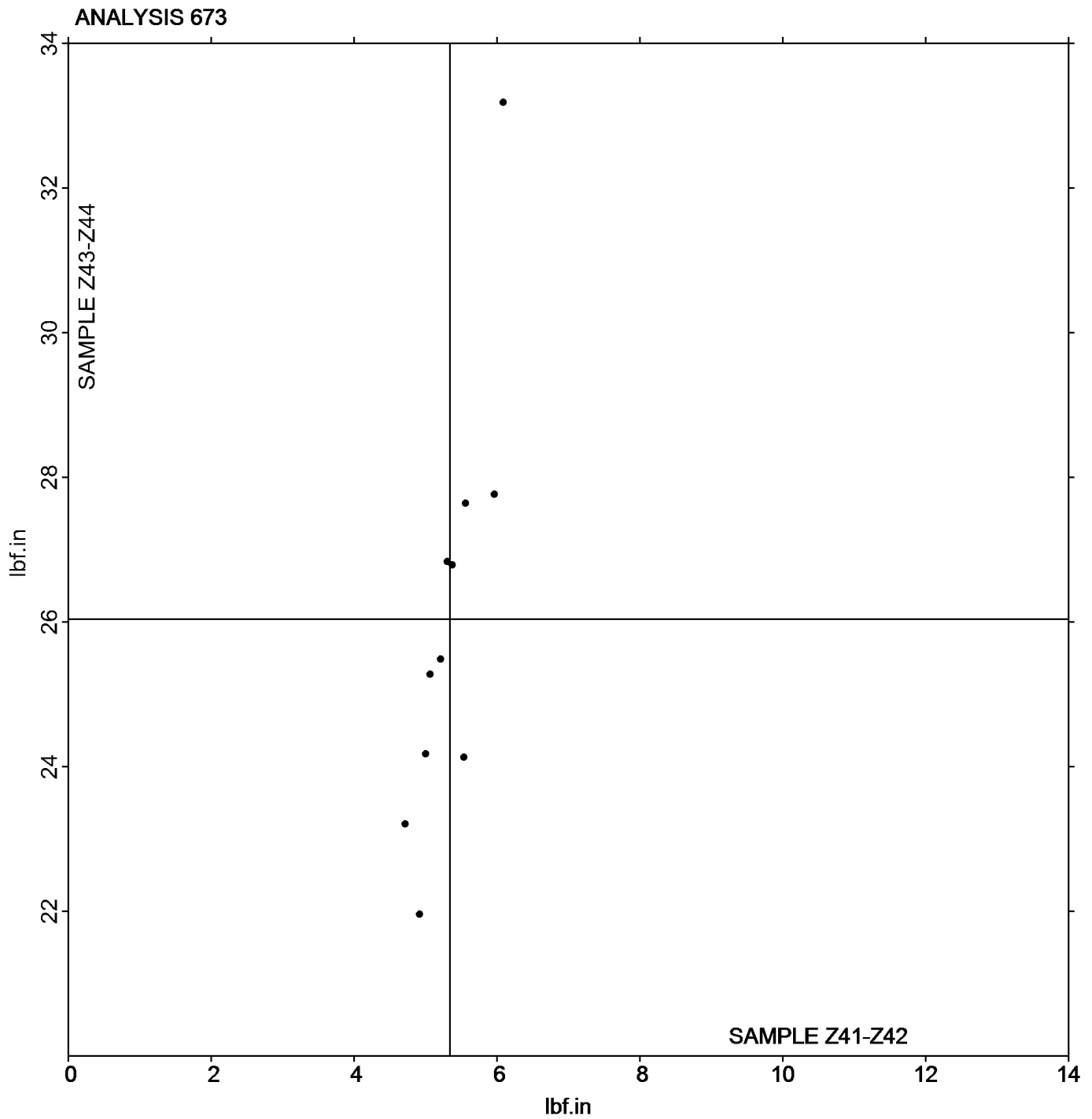
Samples Z41-Z42: EPDM compound #1 & Z43-Z44: EPDM compound #2

Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Z41-Z42 = 5.3408 lbf.in

Grand Mean Sample Z43-Z44 = 26.039 lbf.in



Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Z41-Z42			Sample Z43-Z44			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		46.10	5.15	2.02	49.27	5.34	1.60	ZZ
A38KZ6		41.90	0.95	0.37	47.66	3.73	1.12	ZZ
AKRBY6		43.08	2.13	0.83	42.39	-1.54	-0.46	ZZ
CBYU87		39.25	-1.70	-0.67	40.43	-3.51	-1.05	ZZ
CEF3TK		38.95	-2.00	-0.78	42.02	-1.91	-0.57	ZZ
CXW4P8		43.82	2.87	1.12	48.13	4.20	1.26	ZZ
HTHETR		38.94	-2.01	-0.79	42.47	-1.46	-0.44	ZZ
PWDNVE		40.08	-0.87	-0.34	43.68	-0.25	-0.08	ZZ
UAPK2C		41.26	0.31	0.12	45.81	1.88	0.56	ZZ
VBVKFH		39.47	-1.48	-0.58	42.41	-1.52	-0.46	ZZ
ZCUE6P		37.63	-3.33	-1.30	38.97	-4.97	-1.49	ZZ

Summary Statistics	
Grand Means	40.953 lbf.in 43.931 lbf.in
Std Dev Btwn Labs	2.553 lbf.in 3.333 lbf.in
Statistics based on 11 of 11 reporting participants	

Summary Statistics in SI Units	
Grand Means	46.270 dN.m 49.635 dN.m
Std Dev Btwn Labs	2.885 dN.m 3.766 dN.m
Statistics based on 11 of 11 reporting participants	

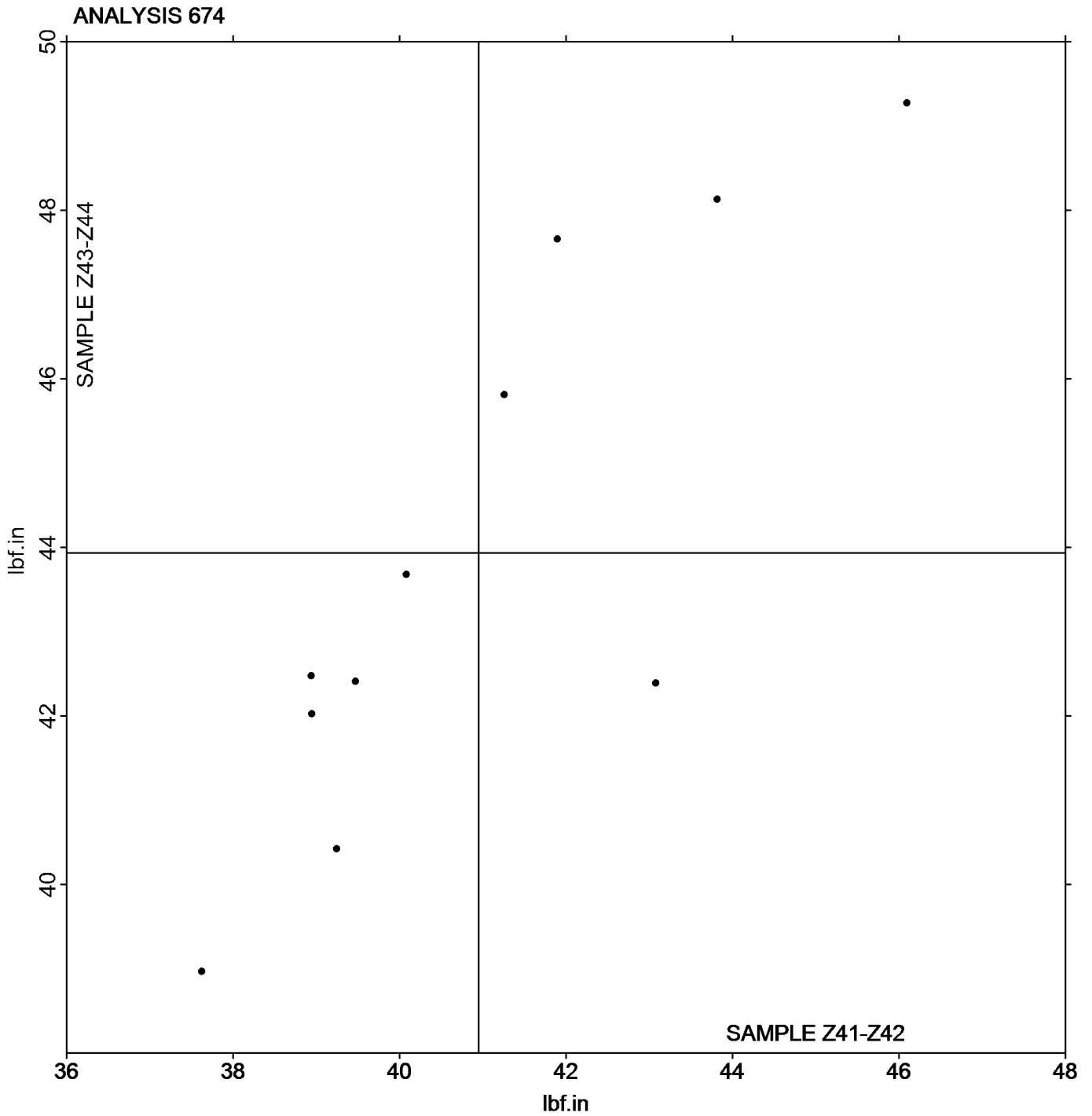
Samples Z41-Z42: EPDM compound #1 & Z43-Z44: EPDM compound #2

Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Z41-Z42 = 40.953 lbf.in

Grand Mean Sample Z43-Z44 = 43.931 lbf.in



Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Z45-Z46			Sample Z47-Z48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		0.7350	-0.2335	-2.02	0.7650	-0.1807	-1.66	MC
3RFNX6		1.0117	0.0432	0.37	0.9950	0.0493	0.45	MD
4RV6VJ		0.9950	0.0265	0.23	0.9417	-0.0040	-0.04	MC
6DMXXQ		1.0617	0.0932	0.81	0.8833	-0.0624	-0.57	MC
7GKL97		1.0639	0.0954	0.82	1.0445	0.0988	0.91	MC
8NGXLE		0.7533	-0.2151	-1.86	0.8667	-0.0790	-0.73	XX
AKRBY6		1.0800	0.1115	0.96	1.0133	0.0676	0.62	MC
B38X6D		0.9933	0.0249	0.21	0.9933	0.0476	0.44	MD
CEF3TK		1.0517	0.0832	0.72	1.0367	0.0910	0.84	MC
EERHUQ		1.0517	0.0832	0.72	0.9483	0.0026	0.02	MC
EJ6JXA		0.8917	-0.0768	-0.66	0.8217	-0.1240	-1.14	MC
F8KEHX		0.9483	-0.0201	-0.17	0.9667	0.0210	0.19	TP
HL24FQ		0.8917	-0.0768	-0.66	0.9233	-0.0224	-0.21	MC
KPUK6P		1.0450	0.0765	0.66	1.0367	0.0910	0.84	MC
KYUJAG		0.8017	-0.1668	-1.44	0.8700	-0.0757	-0.70	MC
L7C6ZZ		0.9883	0.0199	0.17	0.9467	0.0010	0.01	MC
LMV6MP		1.0700	0.1015	0.88	1.0217	0.0760	0.70	MC
MQDMH		1.0500	0.0816	0.70	1.1334	0.1877	1.73	MC
MUC28P		1.1133	0.1449	1.25	1.0700	0.1243	1.14	MC
MY8VZK		1.0550	0.0865	0.75	0.9600	0.0143	0.13	XX
PWDNVE		1.0167	0.0482	0.42	0.9617	0.0160	0.15	MC
QFJDPM	*	0.7433	-0.2251	-1.95	0.6267	-0.3190	-2.94	MC
REMMT8	X	0.8633	-0.1051	-0.91	0.5083	-0.4374	-4.03	MC
RYTWVP		0.9917	0.0232	0.20	0.9550	0.0093	0.09	TP
TBLTGN		0.7750	-0.1935	-1.67	0.7783	-0.1674	-1.54	MC
TTKVAL		1.0450	0.0765	0.66	0.9900	0.0443	0.41	MC
UPEPA7		0.9867	0.0182	0.16	1.0233	0.0776	0.72	MC
UTK7PP		0.7917	-0.1768	-1.53	0.8133	-0.1324	-1.22	MD
VBVKFH		0.9533	-0.0151	-0.13	0.9167	-0.0290	-0.27	MC
W98DTZ		1.1083	0.1399	1.21	1.1133	0.1676	1.54	MC
X92BMT		0.9900	0.0215	0.19	0.9550	0.0093	0.09	MC

Summary Statistics	
Grand Means	0.96846 minutes
Std Dev Btwn Labs	0.11574 minutes
	0.94571 minutes
	0.10856 minutes
Statistics based on 30 of 31 reporting participants	

Samples Z45-Z46: EPDM compound, batch #1 & Z47-Z48: EPDM compound, batch #2

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

Comments on assigned Data Flags for Test #684

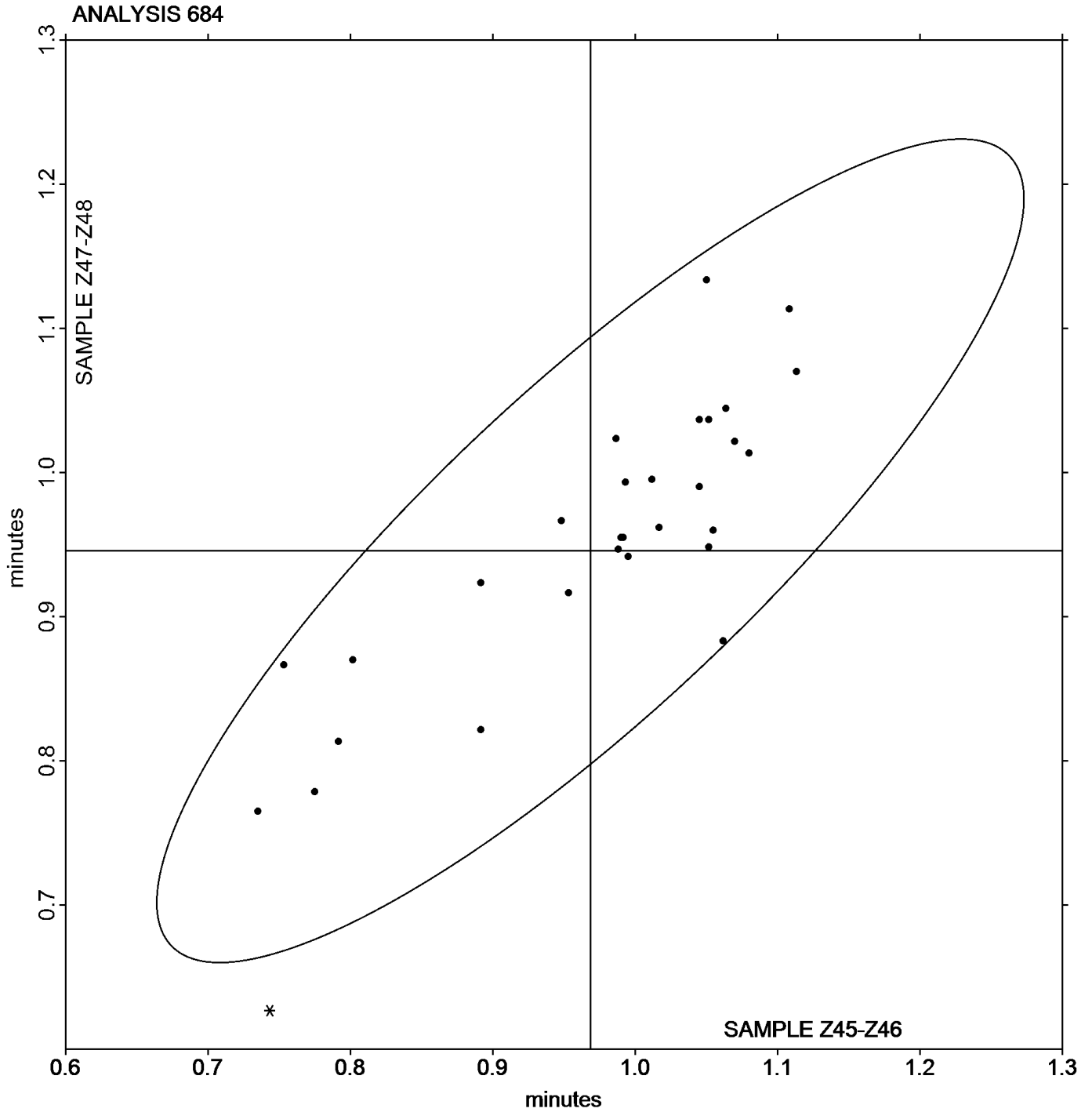
REMMT8 (X) - Inconsistency in testing between Sample groups. Data for Sample group Z47-Z48 are low.
Inconsistency in testing within both Sample groups.

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample Z45-Z46 = 0.96846 minutes

Grand Mean Sample Z47-Z48 = 0.94571 minutes



Rubber Interlaboratory Testing Program

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Z45-Z46			Sample Z47-Z48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		0.6850	-0.3124	-2.27	0.7300	-0.2330	-1.66	MC
3RFNX6		1.0550	0.0576	0.42	1.0317	0.0686	0.49	MD
4RV6VJ		0.9999	0.0025	0.02	0.9185	-0.0445	-0.32	MC
6DMXXQ		1.1250	0.1276	0.93	0.9033	-0.0597	-0.43	MC
7GKL97		1.1084	0.1110	0.81	1.0722	0.1092	0.78	MC
8NGXLE		0.7450	-0.2524	-1.84	0.8517	-0.1114	-0.79	XX
AE4QU4		0.9912	-0.0062	-0.05	0.8783	-0.0847	-0.60	MC
AKRBY6		1.1067	0.1093	0.79	1.0283	0.0653	0.46	MC
B38X6D		1.0067	0.0093	0.07	1.0033	0.0403	0.29	MD
BK7ZZV	*	0.9995	0.0021	0.02	1.1800	0.2170	1.54	MC
CEF3TK		1.0900	0.0926	0.67	1.0667	0.1036	0.74	MC
EERHUQ		1.0817	0.0843	0.61	0.9633	0.0003	0.00	MC
EJ6JXA		0.9183	-0.0791	-0.57	0.8333	-0.1297	-0.92	MC
F8KEHX		1.0000	0.0026	0.02	1.0133	0.0503	0.36	TP
HL24FQ		0.8583	-0.1391	-1.01	0.8800	-0.0830	-0.59	MC
KPUK6P		1.0967	0.0993	0.72	1.0850	0.1220	0.87	MC
KYUJAG		1.0300	0.0326	0.24	1.0150	0.0520	0.37	MC
L7C6ZZ		0.9550	-0.0424	-0.31	0.9050	-0.0580	-0.41	MC
LMV6MP		1.1183	0.1209	0.88	1.0433	0.0803	0.57	MC
MQDMH		1.1361	0.1387	1.01	1.1889	0.2259	1.61	MC
MUC28P		1.1567	0.1593	1.16	1.1000	0.1370	0.98	XX
MY8VZK		1.0783	0.0809	0.59	0.9567	-0.0064	-0.05	XX
PWDNVE		1.0400	0.0426	0.31	0.9733	0.0103	0.07	MC
QFJDPM		0.7600	-0.2374	-1.73	0.6333	-0.3297	-2.35	MC
REMMT8	X	0.8417	-0.1557	-1.13	0.4900	-0.4730	-3.37	MC
RXGZPK		1.0950	0.0976	0.71	1.1150	0.1520	1.08	MC
RYTWVP		1.0467	0.0493	0.36	0.9933	0.0303	0.22	TP
TBLTGN		0.7300	-0.2674	-1.94	0.7283	-0.2347	-1.67	MC
TTKVAL		1.1283	0.1309	0.95	1.0567	0.0936	0.67	MC
U9AKK9		0.8967	-0.1007	-0.73	0.7550	-0.2080	-1.48	MC
UPEPA7		0.9683	-0.0291	-0.21	1.0300	0.0670	0.48	MC
UTK7PP		0.7267	-0.2707	-1.97	0.7283	-0.2347	-1.67	MD
VBVKFH		0.9450	-0.0524	-0.38	0.9000	-0.0630	-0.45	MC
W98DTZ		1.2283	0.2309	1.68	1.2167	0.2536	1.81	MC
X92BMT		1.0050	0.0076	0.06	0.9650	0.0020	0.01	MC

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

		Summary Statistics	
Grand Means	0.99740 minutes	0.96303 minutes	
Std Dev Btwn Labs	0.13754 minutes	0.14046 minutes	
Statistics based on 34 of 35 reporting participants			

Samples Z45-Z46: EPDM compound, batch #1 & Z47-Z48: EPDM compound, batch #2

Comments on assigned Data Flags for Test #685

REMMT8 (X) - Inconsistency in testing between Sample groups. Data for Sample group Z47-Z48 are low.
Inconsistency in testing within both Sample groups.

Instrument Code Listing

685 MDR Vulcanization-Scorch Time, Ts1 (minutes)

Instruments:

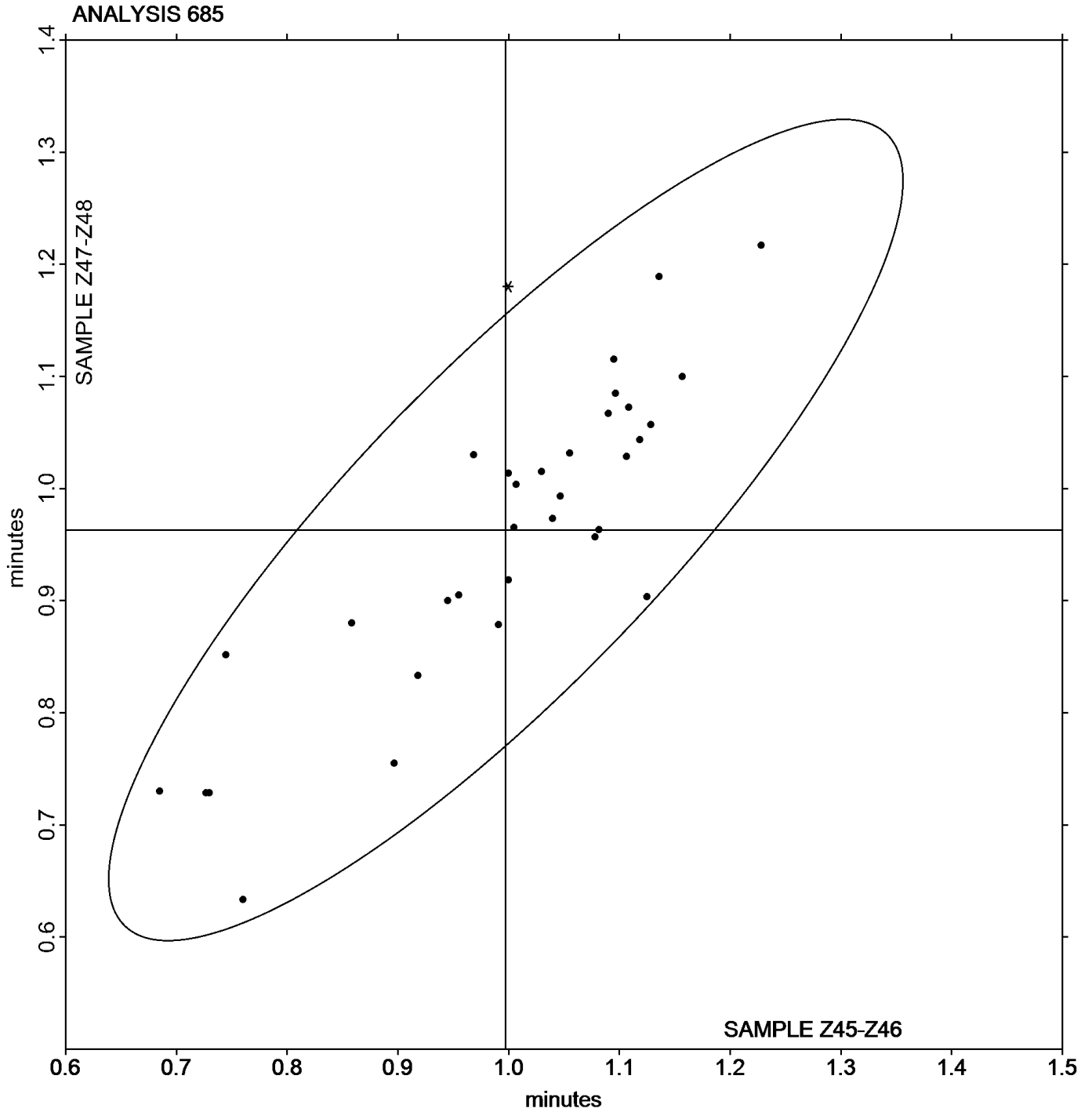
(MC) Alpha Technologies [Monsanto] MDR 2000 or 2000E (MD) Alpha Tech. Rubber Process Analyzer (RPA 2000)
 (MP) Alpha Technologies [Monsanto] MDR 2000P (TP) Tech Pro MDR model MDPT
 (XX) Instrument model not specified by lab

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

Grand Mean Sample Z45-Z46 = 0.99740 minutes

Grand Mean Sample Z47-Z48 = 0.96303 minutes



Rubber Interlaboratory Testing Program

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Z45-Z46			Sample Z47-Z48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		2.068	-0.084	-1.43	2.098	-0.049	-0.73	MC
3RFNX6		2.175	0.023	0.39	2.203	0.056	0.82	MD
4RV6VJ		2.102	-0.050	-0.86	2.067	-0.081	-1.20	MC
6DMXXQ		2.203	0.051	0.87	2.198	0.051	0.75	MC
7GKL97		2.194	0.042	0.72	2.211	0.064	0.94	MC
8NGXLE		2.077	-0.075	-1.29	2.140	-0.008	-0.11	XX
AE4QU4		2.207	0.055	0.93	2.196	0.048	0.71	MC
AKRBY6		2.203	0.051	0.87	2.157	0.009	0.13	MC
B38X6D	*	2.197	0.045	0.76	2.288	0.141	2.08	MD
BK7ZZV		2.223	0.071	1.21	2.235	0.087	1.29	MC
CEF3TK		2.243	0.091	1.56	2.250	0.102	1.51	MC
EERHUQ		2.185	0.033	0.56	2.150	0.002	0.04	MC
EJ6JXA		2.140	-0.012	-0.21	2.098	-0.049	-0.73	MC
F8KEHX		2.130	-0.022	-0.38	2.135	-0.013	-0.19	TP
HL24FQ		2.190	0.038	0.65	2.222	0.074	1.09	MC
KPUK6P		2.140	-0.012	-0.21	2.142	-0.006	-0.09	MC
KYUJAG		2.020	-0.132	-2.25	2.023	-0.124	-1.84	MC
L7C6ZZ		2.107	-0.045	-0.77	2.108	-0.039	-0.58	MC
LMV6MP		2.170	0.018	0.31	2.140	-0.008	-0.11	MC
MQDMH		2.186	0.034	0.58	2.194	0.047	0.69	MC
MUC28P		2.152	0.000	-0.01	2.127	-0.021	-0.31	XX
MY8VZK		2.085	-0.067	-1.14	2.022	-0.126	-1.86	MC
PWDNVE		2.152	0.000	-0.01	2.123	-0.024	-0.36	MC
QFJDPM		2.062	-0.090	-1.54	2.045	-0.103	-1.52	MC
REMMT8	X	1.643	-0.509	-8.68	1.780	-0.368	-5.44	MC
RXGZPK		2.207	0.055	0.93	2.213	0.066	0.97	MC
RYTWVP		2.017	-0.135	-2.31	2.018	-0.129	-1.91	TP
TBLTGN		2.195	0.043	0.73	2.140	-0.008	-0.11	MC
TTKVAL		2.188	0.036	0.62	2.145	-0.003	-0.04	MC
U9AKK9		2.132	-0.020	-0.35	2.108	-0.039	-0.58	MC
UPEPA7		2.212	0.060	1.02	2.223	0.076	1.12	MC
UTK7PP	X	1.823	-0.329	-5.61	1.848	-0.299	-4.43	MD
VBVKFH		2.147	-0.005	-0.09	2.132	-0.016	-0.24	MC
W98DTZ		2.197	0.045	0.76	2.202	0.054	0.80	MC
X92BMT		2.115	-0.037	-0.63	2.117	-0.031	-0.46	MC

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

		Summary Statistics	
Grand Means	2.1521 minutes		2.1476 minutes
Std Dev Btwn Labs	0.0586 minutes		0.0676 minutes
Statistics based on 33 of 35 reporting participants			

Samples Z45-Z46: EPDM compound, batch #1 & Z47-Z48: EPDM compound, batch #2

Comments on assigned Data Flags for Test #686

REMMT8 (X) - Data for all Samples are low. Possible systematic error. Inconsistency in testing within both Sample groups.

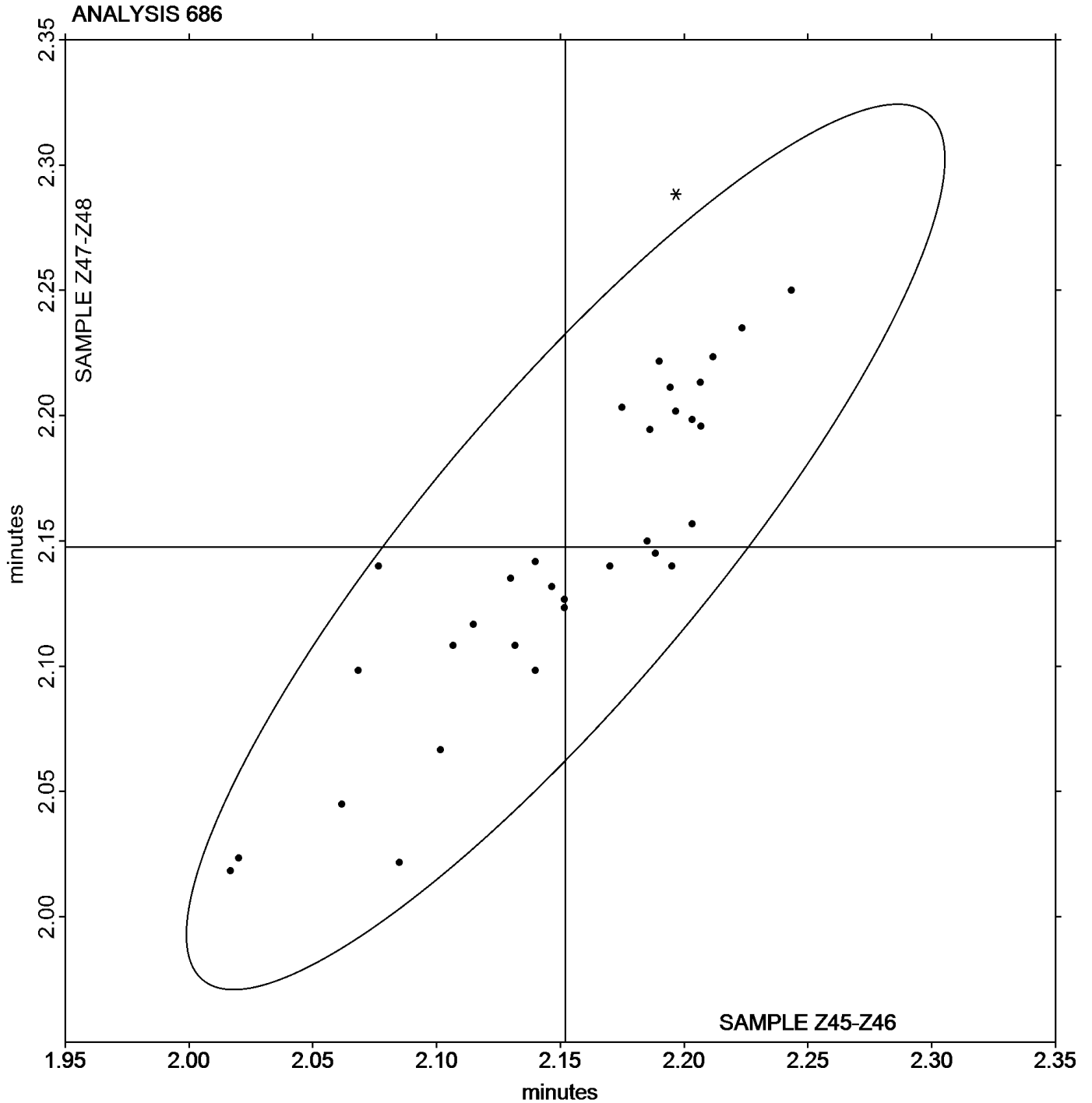
UTK7PP (X) - Data for all Samples are low. Possible systematic error.

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample Z45-Z46 = 2.1521 minutes

Grand Mean Sample Z47-Z48 = 2.1476 minutes



Rubber Interlaboratory Testing Program

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Z45-Z46			Sample Z47-Z48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		4.897	-0.050	-0.19	4.612	-0.211	-0.69	MC
3RFNX6		4.700	-0.247	-0.92	4.788	-0.034	-0.11	MD
4RV6VJ		5.127	0.179	0.67	5.005	0.183	0.60	MC
6DMXXQ		5.200	0.253	0.94	5.037	0.214	0.70	MC
7GKL97		4.883	-0.064	-0.24	4.867	0.045	0.15	MC
8NGXLE		5.003	0.056	0.21	4.887	0.064	0.21	XX
AE4QU4		5.163	0.216	0.80	4.997	0.174	0.57	MC
AKRBY6		4.907	-0.040	-0.15	4.913	0.091	0.30	MC
B38X6D		4.893	-0.054	-0.20	5.085	0.263	0.86	MD
BK7ZZV		5.105	0.158	0.59	4.997	0.174	0.57	MC
CEF3TK		4.927	-0.020	-0.08	4.803	-0.019	-0.06	MC
EERHUQ		5.350	0.403	1.50	5.035	0.213	0.69	MC
EJ6JXA		4.687	-0.260	-0.97	4.465	-0.357	-1.17	MC
F8KEHX		4.942	-0.005	-0.02	4.918	0.096	0.31	TP
HL24FQ	X	8.517	3.570	13.29	4.913	0.091	0.30	MC
KPUK6P		5.078	0.131	0.49	4.960	0.138	0.45	MC
KYUJAG		4.857	-0.090	-0.34	4.860	0.038	0.12	MC
L7C6ZZ		4.930	-0.017	-0.06	4.633	-0.189	-0.62	MC
LMV6MP		5.210	0.263	0.98	5.132	0.309	1.01	MC
MQDMH		5.031	0.084	0.31	4.983	0.161	0.53	MC
MUC28P		5.020	0.073	0.27	4.977	0.154	0.50	XX
MY8VZK		4.762	-0.185	-0.69	4.358	-0.464	-1.51	XX
PWDNVE		4.870	-0.077	-0.29	4.630	-0.192	-0.63	MC
QFJDPM		4.857	-0.090	-0.34	4.683	-0.139	-0.45	MC
REMMT8		4.395	-0.552	-2.05	4.075	-0.747	-2.44	MC
RXGZPK		4.807	-0.140	-0.52	4.927	0.104	0.34	MC
RYTWVP		4.385	-0.562	-2.09	4.385	-0.437	-1.43	TP
TBLTGN		5.112	0.165	0.61	4.752	-0.071	-0.23	MC
TTKVAL		5.373	0.426	1.59	5.260	0.438	1.43	MC
U9AKK9		4.920	-0.027	-0.10	4.687	-0.136	-0.44	MP
UPEPA7		5.318	0.371	1.38	5.328	0.506	1.65	MC
UTK7PP		4.275	-0.672	-2.50	4.122	-0.701	-2.29	MD
VBVKFH		4.963	0.016	0.06	4.685	-0.137	-0.45	MC
W98DTZ		5.480	0.533	1.98	5.457	0.634	2.07	MC
X92BMT		4.777	-0.170	-0.63	4.653	-0.169	-0.55	MC

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

		Summary Statistics	
Grand Means	4.9471 minutes		4.8222 minutes
Std Dev Btwn Labs	0.2687 minutes		0.3063 minutes
Statistics based on 34 of 35 reporting participants			

Samples Z45-Z46: EPDM compound, batch #1 & Z47-Z48: EPDM compound, batch #2

Comments on assigned Data Flags for Test #687

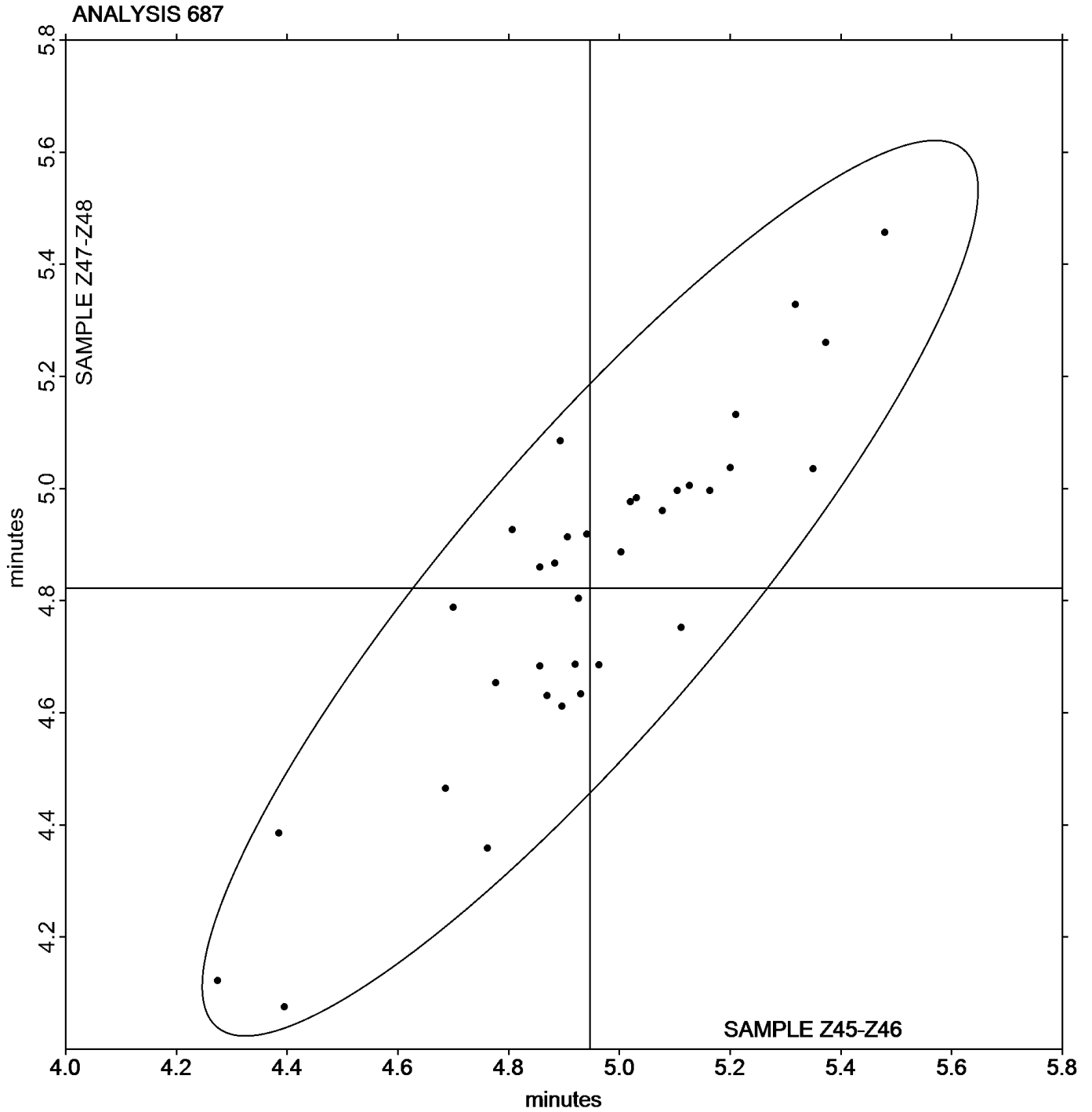
HL24FQ (X) - Extreme data for Sample group Z45-Z46.

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Z45-Z46 = 4.9471 minutes

Grand Mean Sample Z47-Z48 = 4.8222 minutes



Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Z45-Z46			Sample Z47-Z48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		6.577	-0.270	-0.47	6.375	0.018	0.03	MC
3RFNX6		6.611	-0.236	-0.41	6.114	-0.244	-0.42	MD
4RV6VJ		7.073	0.226	0.39	6.527	0.170	0.29	MC
6DMXXQ		6.222	-0.625	-1.08	5.660	-0.697	-1.19	MC
7GKL97		7.390	0.543	0.94	6.737	0.379	0.65	MC
8NGXLE		5.818	-1.029	-1.78	5.585	-0.772	-1.32	XX
AE4QU4		6.597	-0.250	-0.43	5.998	-0.360	-0.61	MC
AKRBY6		7.042	0.195	0.34	6.067	-0.291	-0.50	MC
B38X6D		6.941	0.093	0.16	6.391	0.034	0.06	MD
BK7ZZV		7.373	0.526	0.91	7.027	0.669	1.14	MC
CEF3TK		6.537	-0.310	-0.54	6.005	-0.352	-0.60	MC
EERHUQ		6.715	-0.132	-0.23	6.148	-0.209	-0.36	MC
EJ6JXA		7.147	0.300	0.52	6.062	-0.296	-0.51	MC
F8KEHX		6.422	-0.425	-0.74	6.472	0.114	0.20	TP
HL24FQ		6.047	-0.800	-1.38	5.638	-0.719	-1.23	MC
KPUK6P		7.723	0.876	1.52	7.332	0.974	1.67	MC
KYUJAG	X	10.307	3.460	5.98	9.515	3.158	5.40	MC
L7C6ZZ		6.508	-0.339	-0.59	5.619	-0.739	-1.26	MC
LMV6MP		7.497	0.650	1.12	6.942	0.584	1.00	MC
MQDMH		7.315	0.468	0.81	7.248	0.891	1.52	MC
MUC28P		8.196	1.349	2.33	7.227	0.869	1.49	XX
MY8VZK		7.405	0.558	0.97	6.635	0.278	0.47	XX
PWDNVE		6.563	-0.284	-0.49	6.023	-0.334	-0.57	MC
QFJDPM		6.302	-0.545	-0.94	5.740	-0.617	-1.06	MC
REMMT8		6.654	-0.193	-0.33	6.939	0.582	0.99	MC
RXGZPK		7.625	0.778	1.35	7.137	0.779	1.33	MC
RYTWVP		6.668	-0.179	-0.31	6.190	-0.167	-0.29	TP
TBLTGN		5.942	-0.905	-1.57	5.500	-0.857	-1.47	MC
TTKVAL		6.763	-0.084	-0.14	6.583	0.226	0.39	MC
U9AKK9		6.340	-0.507	-0.88	5.595	-0.762	-1.30	MP
UPEPA7		6.347	-0.500	-0.87	6.532	0.174	0.30	MC
UTK7PP		6.719	-0.128	-0.22	6.064	-0.294	-0.50	MD
VBVKFH		6.540	-0.307	-0.53	6.010	-0.347	-0.59	MC
W98DTZ		8.060	1.213	2.10	7.767	1.409	2.41	MC
X92BMT		7.123	0.276	0.48	6.267	-0.091	-0.16	MC

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

Summary Statistics

Grand Means

6.8471 lbf.in

6.3575 lbf.in

Std Dev Btwn Labs

0.5783 lbf.in

0.5849 lbf.in

Statistics based on 34 of 35 reporting participants

Summary Statistics in SI Units

Grand Means

7.7361 dN.m

7.1830 dN.m

Std Dev Btwn Labs

0.6533 dN.m

0.6609 dN.m

Statistics based on 34 of 35 reporting participants

Samples Z45-Z46: EPDM compound, batch #1 & Z47-Z48: EPDM compound, batch #2

Comments on assigned Data Flags for Test #688

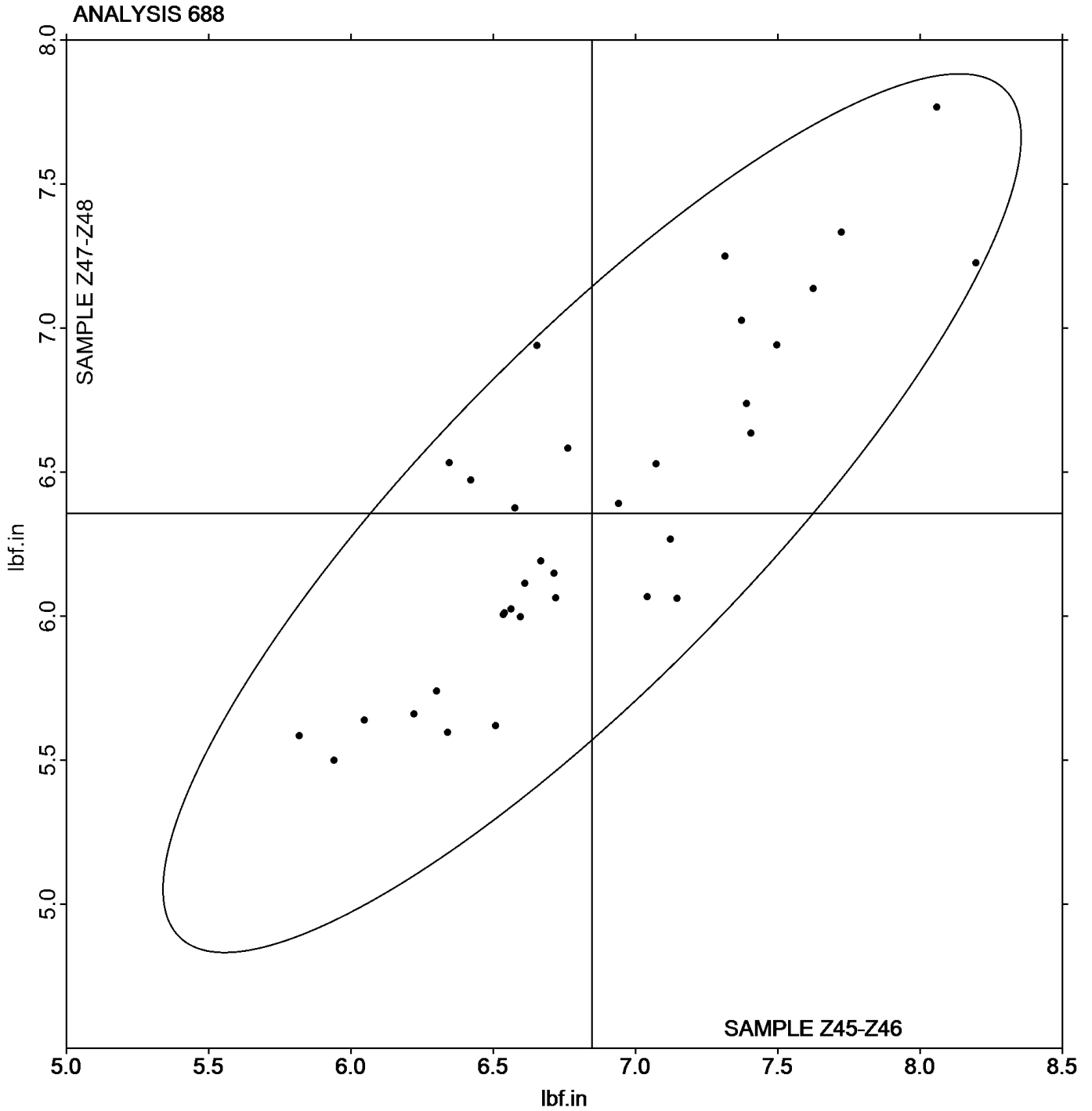
KYUJAG (X) - Data for all Samples are high. Possible systematic error. Inconsistency in testing within both Sample groups.

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Z45-Z46 = 6.8471 lbf.in

Grand Mean Sample Z47-Z48 = 6.3575 lbf.in



Analysis 689

MDR Vulcanization: Maximum Torque (Ibf.in)

WebCode	Data Flag	Sample Z45-Z46			Sample Z47-Z48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2Y3UH8		17.21	1.14	1.69	16.79	0.89	1.60	MC
3RFNX6		15.84	-0.22	-0.33	15.50	-0.40	-0.72	MD
4RV6VJ		15.63	-0.44	-0.65	15.87	-0.03	-0.06	MC
6DMXXQ		14.78	-1.29	-1.90	15.08	-0.82	-1.48	MC
7GKL97		16.46	0.39	0.58	16.08	0.18	0.32	MC
8NGXLE		15.95	-0.11	-0.16	15.97	0.07	0.12	XX
AE4QU4		15.95	-0.11	-0.16	15.96	0.06	0.11	MC
AKRBY6		16.27	0.21	0.30	15.80	-0.10	-0.18	MC
B38X6D		16.56	0.49	0.73	16.16	0.26	0.47	MD
BK7ZZV		15.26	-0.80	-1.18	14.97	-0.93	-1.66	MC
CEF3TK		15.58	-0.49	-0.72	15.21	-0.69	-1.23	MC
EERHUQ		16.53	0.47	0.69	16.33	0.44	0.78	MC
EJ6JXA		16.53	0.46	0.69	15.97	0.07	0.13	MC
F8KEHX		15.21	-0.85	-1.26	15.37	-0.53	-0.95	TP
HL24FQ		16.81	0.75	1.10	16.69	0.79	1.41	MC
KPUK6P		16.23	0.17	0.25	16.12	0.22	0.39	MC
KYUJAG	X	19.47	3.41	5.03	19.35	3.45	6.19	MC
L7C6ZZ		16.15	0.09	0.13	15.71	-0.18	-0.33	MC
LMV6MP		16.16	0.09	0.14	16.27	0.37	0.66	MC
MQDMH		15.41	-0.66	-0.97	15.80	-0.10	-0.17	MC
MUC28P		15.93	-0.13	-0.19	15.37	-0.53	-0.95	XX
MY8VZK		15.61	-0.45	-0.66	15.51	-0.39	-0.69	XX
PWDNVE		15.95	-0.11	-0.16	15.76	-0.14	-0.25	MC
QFJDPM		15.82	-0.24	-0.36	15.52	-0.38	-0.69	MC
REMMT8		16.87	0.81	1.19	16.57	0.67	1.21	MC
RXGZPK		16.73	0.66	0.98	16.34	0.44	0.78	MC
RYTWVP		15.25	-0.82	-1.21	15.21	-0.69	-1.23	TP
TBLTGN		16.52	0.45	0.67	16.34	0.44	0.80	MC
TTKVAL		14.76	-1.30	-1.92	14.95	-0.95	-1.69	MC
U9AKK9		16.37	0.30	0.45	16.19	0.29	0.53	MP
UPEPA7		15.81	-0.25	-0.37	16.17	0.27	0.49	MC
UTK7PP		17.54	1.48	2.18	17.25	1.35	2.43	MD
VBVKFH		16.80	0.73	1.08	16.52	0.62	1.12	MC
W98DTZ		14.99	-1.08	-1.59	15.10	-0.80	-1.43	MC
X92BMT		16.70	0.64	0.94	16.11	0.21	0.38	MC

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

Summary Statistics

Grand Means

16.064 lbf.in

15.899 lbf.in

Std Dev Btwn Labs

0.677 lbf.in

0.558 lbf.in

Statistics based on 34 of 35 reporting participants

Summary Statistics in SI Units

Grand Means

18.149 dN.m

17.963 dN.m

Std Dev Btwn Labs

0.765 dN.m

0.631 dN.m

Statistics based on 34 of 35 reporting participants

Samples Z45-Z46: EPDM compound, batch #1 & Z47-Z48: EPDM compound, batch #2

Comments on assigned Data Flags for Test #689

KYUJAG (X) - Data for all Samples are high. Possible systematic error.

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Z45-Z46 = 16.064 lbf.in

Grand Mean Sample Z47-Z48 = 15.899 lbf.in

