

Rubber Interlaboratory Testing Program

Summary Report #145- 3rd Qtr 2005

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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, wine 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 55 countries, currently participate in the CTS programs.

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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 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 #.**
6. **Data for two samples (or two tests) appeared to be switched by the lab.**

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 C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
128VPE		3,299.5	72.9	0.43	3,277.5	47.6	0.30
1A4MA1		3,252.5	25.9	0.15	3,152.5	-77.4	-0.48
1U9BA8		3,266.5	39.9	0.24	3,410.5	180.6	1.13
1VD7AE		3,619.0	392.4	2.33	3,522.5	292.6	1.83
2HF51C		3,246.0	19.4	0.12	3,318.0	88.1	0.55
2K7KTJ		3,221.0	-5.6	-0.03	3,157.5	-72.4	-0.45
2KZELG		3,250.0	23.4	0.14	3,350.5	120.6	0.75
3B9W97		3,027.7	-198.9	-1.18	3,088.6	-141.3	-0.88
3KDG53	X	3,283.5	56.9	0.34	2,080.0	-1,149.9	-7.20
3MCDAH		3,238.5	11.9	0.07	3,235.0	5.1	0.03
3MMMWV		3,354.8	128.2	0.76	3,439.3	209.3	1.31
41EU1P		3,060.3	-166.2	-0.99	3,190.9	-39.1	-0.24
45QLU8		3,009.6	-217.0	-1.29	3,053.1	-176.9	-1.11
4C4AG6		3,291.5	64.9	0.39	3,279.0	49.1	0.31
4NJTZD		3,290.2	63.7	0.38	3,180.0	-50.0	-0.31
52AQ9L		3,038.6	-188.0	-1.11	3,132.8	-97.1	-0.61
5GQPHR		3,250.0	23.4	0.14	3,203.0	-26.9	-0.17
5PTGWB		3,556.0	329.4	1.95	3,489.0	259.1	1.62
5QZ6Y5		2,897.2	-329.4	-1.95	2,924.0	-305.9	-1.91
5R7FHV	X	3,454.5	227.9	1.35	3,241.0	11.1	0.07
6FTZTP		3,355.0	128.4	0.76	3,264.5	34.6	0.22
6HFN7G		2,944.3	-282.3	-1.67	3,042.9	-187.0	-1.17
6UM82P		3,288.0	61.5	0.36	3,330.1	100.2	0.63
6USXJ1		3,088.0	-138.6	-0.82	3,083.5	-146.4	-0.92
7FAZD3		3,207.5	-19.1	-0.11	3,230.0	0.1	0.00
7K8VC6		3,269.0	42.4	0.25	3,334.0	104.1	0.65
7ZYVV9	*	2,800.5	-426.1	-2.53	2,881.5	-348.4	-2.18
8GXVCD		3,352.5	125.9	0.75	3,380.5	150.6	0.94
8N5VW6		3,334.0	107.4	0.64	3,359.5	129.6	0.81
97GA3K		3,456.0	229.4	1.36	3,304.5	74.6	0.47
98UTD3		3,517.8	291.2	1.73	3,433.3	203.4	1.27
AJ1WGK		3,250.3	23.7	0.14	3,188.4	-41.6	-0.26
APMRCL		3,422.5	195.9	1.16	3,307.0	77.1	0.48
AR9ZZP		3,198.5	-28.1	-0.17	3,118.5	-111.4	-0.70
ARXM3H		3,293.5	66.9	0.40	3,286.5	56.6	0.35

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
AS7C16		3,332.5	105.9	0.63	3,292.0	62.1	0.39
BPGXWX		3,141.5	-85.1	-0.50	3,137.0	-92.9	-0.58
C1L1MN		3,116.0	-110.6	-0.66	3,144.5	-85.4	-0.53
C5XGNS		3,251.5	24.9	0.15	3,278.5	48.6	0.30
C6VE66		3,190.5	-36.1	-0.21	3,308.0	78.1	0.49
CFE5M2		3,226.4	-0.2	0.00	3,183.6	-46.3	-0.29
CLAQ1W		3,354.5	127.9	0.76	3,364.0	134.1	0.84
CTW58W		3,118.0	-108.6	-0.64	3,154.0	-75.9	-0.48
CUELEG		3,241.0	14.4	0.09	3,300.0	70.1	0.44
DDH7MS		3,142.0	-84.6	-0.50	3,138.0	-91.9	-0.58
DJ8MBW		3,313.5	86.9	0.52	3,377.0	147.1	0.92
DTD3SQ		2,921.0	-305.6	-1.81	3,007.0	-222.9	-1.40
DYL8AY		3,048.5	-178.1	-1.06	3,083.0	-146.9	-0.92
E5TD6Q		3,012.5	-214.1	-1.27	3,049.5	-180.4	-1.13
EMVX61		3,209.0	-17.6	-0.10	3,250.0	20.1	0.13
F8BNWW		2,971.5	-255.1	-1.51	2,996.0	-233.9	-1.46
FBNL5W		3,133.6	-93.0	-0.55	3,106.8	-123.2	-0.77
FEL6X6		3,470.5	243.9	1.45	3,522.0	292.1	1.83
FL983C	X	2,720.8	-505.8	-3.00	2,658.7	-571.3	-3.58
FVLX27		3,290.0	63.4	0.38	3,315.0	85.1	0.53
FYC8J8		3,154.6	-72.0	-0.43	3,241.6	11.7	0.07
G34UWT		3,479.5	252.9	1.50	3,391.0	161.1	1.01
GRXW7J		3,410.5	183.9	1.09	3,429.5	199.6	1.25
GWP4QS		3,345.0	118.4	0.70	3,441.0	211.1	1.32
H1NNMS	X	2,661.0	-565.6	-3.35	2,649.5	-580.4	-3.63
HJ5UZN		3,580.5	353.9	2.10	3,611.5	381.6	2.39
HLDLE4		3,213.5	-13.1	-0.08	3,269.0	39.1	0.24
HU5Q11		3,130.4	-96.2	-0.57	3,205.0	-25.0	-0.16
J961ZU		3,273.5	46.9	0.28	3,255.0	25.1	0.16
JUSBSJ		3,053.0	-173.6	-1.03	2,983.5	-246.4	-1.54
JYAGMD		3,074.5	-152.1	-0.90	3,159.5	-70.4	-0.44
K3JGKL		3,186.0	-40.6	-0.24	3,226.5	-3.4	-0.02
KB9U2X		3,310.8	84.2	0.50	3,323.0	93.0	0.58
KLJGMN		3,270.0	43.4	0.26	3,267.5	37.6	0.24
KNQXVA		3,038.6	-188.0	-1.11	3,060.3	-169.6	-1.06

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KSRLGH		3,493.5	266.9	1.58	3,478.8	248.8	1.56
KXVWH4		3,220.0	-6.6	-0.04	3,166.0	-63.9	-0.40
LEZ7UN		2,992.9	-233.7	-1.39	3,029.9	-200.1	-1.25
LT6MFC		3,331.0	104.4	0.62	3,274.0	44.1	0.28
LY2L2G		3,039.5	-187.1	-1.11	3,080.0	-149.9	-0.94
MWJS7A		3,287.6	61.1	0.36	3,381.8	151.9	0.95
N1SEEM	*	2,922.5	-304.0	-1.80	2,850.0	-379.9	-2.38
N5BN25		3,071.5	-155.1	-0.92	3,011.0	-218.9	-1.37
NJREHD		3,422.0	195.4	1.16	3,393.5	163.6	1.02
NXKEWN		3,305.3	78.7	0.47	3,152.7	-77.3	-0.48
P17FV6		3,198.7	-27.9	-0.17	3,171.9	-58.1	-0.36
P3YKQ9		3,238.5	11.9	0.07	3,281.0	51.1	0.32
P4GETH		3,248.0	21.4	0.13	3,179.5	-50.4	-0.32
PCEENA		3,431.5	204.9	1.22	3,466.5	236.6	1.48
PNJG3E		3,190.1	-36.4	-0.22	3,233.6	3.7	0.02
PR9282		3,211.5	-15.1	-0.09	3,233.5	3.6	0.02
Q4A8Q6		3,142.0	-84.6	-0.50	3,066.0	-163.9	-1.03
QKD8G7	*	3,641.2	414.6	2.46	3,506.0	276.1	1.73
QUD5YJ		3,292.5	65.9	0.39	3,334.0	104.1	0.65
QVBUBL		3,145.0	-81.6	-0.48	3,084.5	-145.4	-0.91
QXVFQA		3,098.8	-127.8	-0.76	3,014.6	-215.3	-1.35
R2PILK		3,140.5	-86.1	-0.51	3,166.0	-63.9	-0.40
R31NZA		3,327.9	101.4	0.60	3,339.5	109.6	0.69
RHGRQT		3,231.5	4.9	0.03	3,259.0	29.1	0.18
RSERN7		2,998.5	-228.1	-1.35	2,974.5	-255.4	-1.60
S6NZV7		3,254.5	27.9	0.17	3,268.0	38.1	0.24
S95K9R		3,342.5	115.9	0.69	3,299.5	69.6	0.44
SMXTFM		3,246.5	19.9	0.12	3,266.0	36.1	0.23
SNTGQ2		2,959.9	-266.7	-1.58	2,977.6	-252.4	-1.58
SR69GE		3,079.2	-147.4	-0.87	2,994.3	-235.6	-1.47
SVWXUH		3,177.1	-49.5	-0.29	3,140.8	-89.1	-0.56
T27VSZ		3,185.5	-41.1	-0.24	3,167.0	-62.9	-0.39
TD5AS1		3,037.0	-189.6	-1.12	2,968.5	-261.4	-1.64
TF9N52		3,589.5	362.9	2.15	3,552.5	322.6	2.02
TZY1LH		3,255.0	28.4	0.17	3,296.0	66.1	0.41

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UBZ1EP		2,887.0	-339.6	-2.01	2,932.7	-297.2	-1.86
UCSZFV		3,385.0	158.4	0.94	3,399.5	169.6	1.06
UJ223S		3,228.6	2.0	0.01	3,262.7	32.7	0.20
UJLWWJ		3,493.8	267.2	1.58	3,571.2	341.2	2.14
UKPSX8		3,031.3	-195.2	-1.16	3,045.1	-184.8	-1.16
V9H31X		3,211.0	-15.6	-0.09	3,329.5	99.6	0.62
VZ76XN		3,159.5	-67.1	-0.40	3,171.0	-58.9	-0.37
WEJ3XD		3,265.0	38.4	0.23	3,310.0	80.1	0.50
WFPW3Y		3,104.5	-122.1	-0.72	3,078.5	-151.4	-0.95
WT27CK		3,244.8	18.2	0.11	3,204.5	-25.4	-0.16
XHVBLA		3,356.8	130.2	0.77	3,401.2	171.3	1.07
XMJ2EM		3,143.7	-82.8	-0.49	3,128.5	-101.4	-0.63
XUMLZB		3,382.0	155.4	0.92	3,328.0	98.1	0.61
YDM6QY		3,485.5	258.9	1.54	3,429.5	199.6	1.25
YUCUVA		3,237.3	10.7	0.06	3,335.9	106.0	0.66
YY8NUF	*	2,871.8	-354.8	-2.10	3,033.5	-196.4	-1.23
ZAWHJB		3,583.0	356.4	2.11	3,555.0	325.1	2.03
ZG4DMM		3,212.5	-14.1	-0.08	3,181.0	-48.9	-0.31
ZLBVSJ	*	3,341.3	114.7	0.68	3,171.5	-58.4	-0.37
ZPF37R		3,090.0	-136.6	-0.81	3,077.0	-152.9	-0.96

Summary Statistics

Grand Means

3,226.56 psi

3,229.93 psi

Std Dev Btwn Labs

168.64 psi

159.77 psi

Statistics based on 121 of 125 reporting participants

Summary Statistics in SI Units

Grand Means

22.246 MPa

22.27 MPa

Std Dev Btwn Labs

1.163 MPa

1.10 MPa

Statistics based on 121 of 125 reporting participants

Samples C51-C52: Polyisoprene compound, batch #1 & C53-C54: Polyisoprene compound, batch #2

Analysis 605

Tensile Strength (psi)

Comments on assigned Data Flags for Test #605

3KDG53 (X) - Inconsistency in testing between Sample sets. Data for Sample sets C53-C54 are low.

5R7FHV (X) - Inconsistency in testing between Sample sets.

FL983C (X) - Data for all Samples are low. Possible Systematic Error.

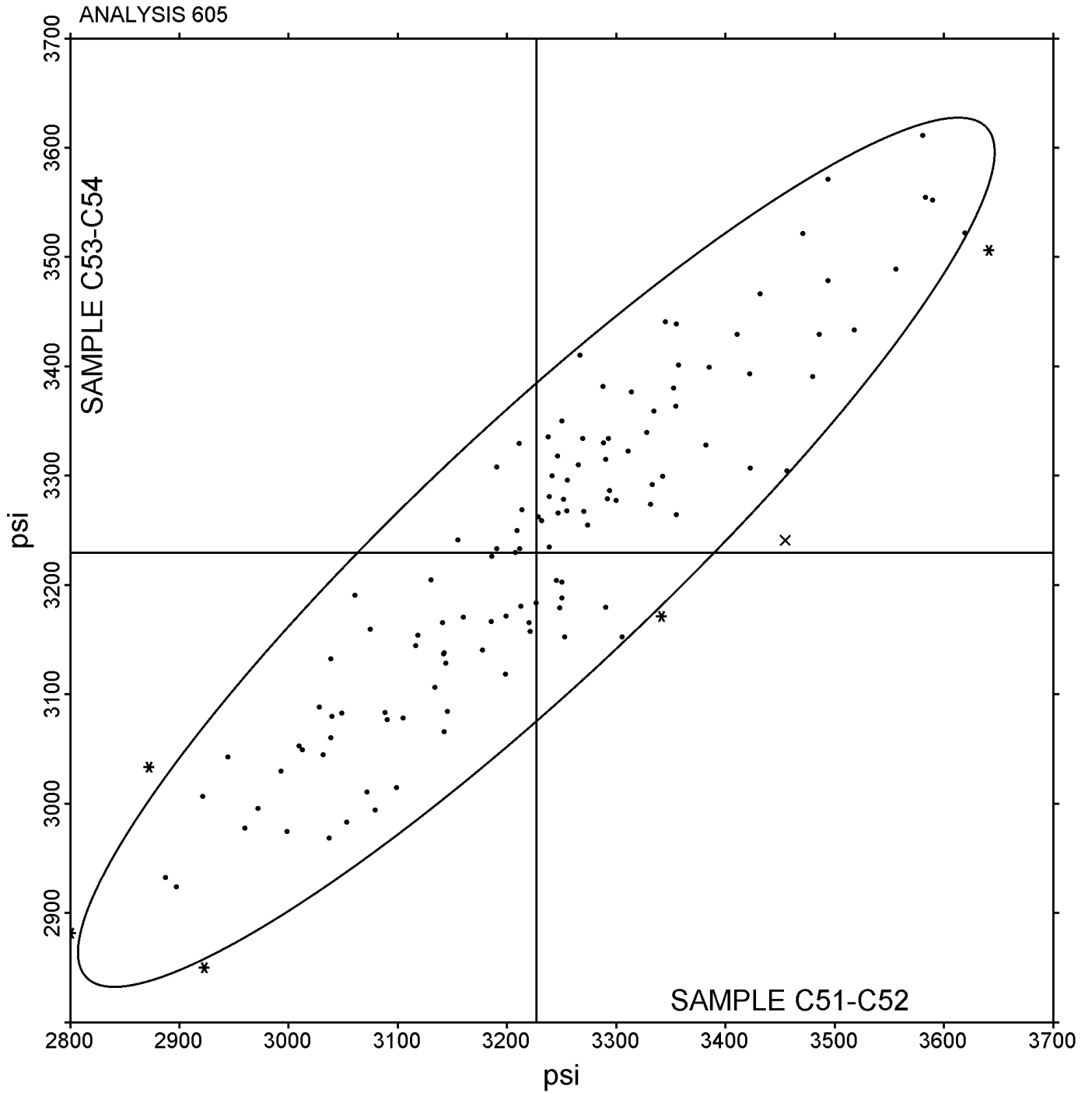
H1NNMS (X) - Data for all Samples are low. Possible Systematic Error.

Analysis 605

Tensile Strength (psi)

Grand Mean Sample C51-C52 = 3,226.56 psi

Grand Mean Sample C53-C54 = 3,229.93 psi



Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
112T23		587.5	25.1	1.26	575.0	13.3	0.61
11FYEE		566.0	3.6	0.18	552.5	-9.2	-0.42
1KJBDR		560.5	-1.9	-0.09	551.5	-10.2	-0.47
1ZB336		550.0	-12.4	-0.62	550.5	-11.2	-0.51
29BHQW		538.5	-23.9	-1.19	537.5	-24.2	-1.11
2LXD9Z		573.5	11.1	0.56	564.5	2.8	0.13
2TK1LH		576.0	13.6	0.68	585.0	23.3	1.07
2ZZ1EL		586.0	23.6	1.18	588.0	26.3	1.21
31ZRVP		565.0	2.6	0.13	576.5	14.8	0.68
36WZNS		554.5	-7.9	-0.39	548.0	-13.7	-0.63
37M22T		610.5	48.1	2.41	607.5	45.8	2.10
3B84EK	X	457.5	-104.9	-5.25	459.0	-102.7	-4.71
3D9PY9		580.0	17.6	0.88	600.0	38.3	1.76
3DZ2X1		548.0	-14.4	-0.72	544.5	-17.2	-0.79
3FTCZK		529.5	-32.9	-1.65	525.5	-36.2	-1.66
3Q88TT		560.5	-1.9	-0.09	573.0	11.3	0.52
46CLJ1	*	592.2	29.8	1.49	566.1	4.4	0.20
4DHAVR		553.0	-9.4	-0.47	551.8	-9.9	-0.46
4GXE62		574.0	11.6	0.58	568.0	6.3	0.29
4V7UL6		578.0	15.6	0.78	577.0	15.3	0.70
5867B5		570.7	8.3	0.42	566.9	5.2	0.24
5MXK8W		583.0	20.6	1.03	584.5	22.8	1.05
64CHQH		550.5	-11.9	-0.59	549.0	-12.7	-0.58
6HLGXA		584.0	21.6	1.08	576.0	14.3	0.66
6K19AW		549.5	-12.9	-0.64	545.5	-16.2	-0.74
6PM1V1		546.0	-16.4	-0.82	556.5	-5.2	-0.24
6TH233		550.0	-12.4	-0.62	562.0	0.3	0.01
77VC53		544.0	-18.4	-0.92	534.0	-27.7	-1.27
7GDDCV	*	609.0	46.6	2.33	619.0	57.3	2.63
7HB17M		534.0	-28.4	-1.42	553.0	-8.7	-0.40
7TCJKA		547.0	-15.4	-0.77	544.0	-17.7	-0.81
82WDYR		574.0	11.6	0.58	577.0	15.3	0.70
8EXHY2		563.0	0.6	0.03	583.0	21.3	0.98
8P5TGE		565.0	2.6	0.13	570.5	8.8	0.40
8TT5R4		574.5	12.1	0.61	576.5	14.8	0.68

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
912UYQ		547.5	-14.9	-0.74	548.5	-13.2	-0.60
9493JC		577.0	14.6	0.73	582.0	20.3	0.93
9JK15V		574.5	12.1	0.61	571.5	9.8	0.45
9L415H		525.5	-36.9	-1.85	521.0	-40.7	-1.87
AJ9556		587.5	25.1	1.26	592.5	30.8	1.41
AJL774		575.0	12.6	0.63	576.5	14.8	0.68
B1SBXD		584.5	22.1	1.11	589.0	27.3	1.25
BCQ2WC		571.5	9.1	0.46	556.0	-5.7	-0.26
C9W798		580.0	17.6	0.88	580.5	18.8	0.86
CASXEZ		563.8	1.4	0.07	561.4	-0.3	-0.01
CDS3TD		591.0	28.6	1.43	573.5	11.8	0.54
CKM5R2		574.0	11.6	0.58	573.5	11.8	0.54
D2KQY7		575.5	13.1	0.66	578.0	16.3	0.75
D9YVCQ		567.0	4.6	0.23	564.5	2.8	0.13
DD6C7R		553.5	-8.9	-0.44	570.0	8.3	0.38
DDB4LM		553.0	-9.4	-0.47	557.5	-4.2	-0.19
DN53RD		570.1	7.7	0.39	571.8	10.1	0.46
DNCNVG		570.5	8.1	0.41	566.5	4.8	0.22
DVSGXW		577.0	14.6	0.73	587.5	25.8	1.18
E547KD		522.5	-39.9	-2.00	512.0	-49.7	-2.28
EBXZFP	X	573.9	11.5	0.57	423.0	-138.7	-6.36
EHWNRR		520.6	-41.8	-2.09	520.6	-41.1	-1.88
ETUZ4H		539.5	-22.9	-1.14	541.0	-20.7	-0.95
G9AX7A		519.4	-43.0	-2.15	515.2	-46.5	-2.13
GMATRZ		534.6	-27.8	-1.39	535.9	-25.8	-1.18
H5E16F		568.5	6.1	0.31	547.0	-14.7	-0.67
HBMD7Y		561.8	-0.6	-0.03	562.5	0.8	0.04
HFXLBG		557.5	-4.9	-0.24	569.5	7.8	0.36
HZTXN9		585.5	23.1	1.16	588.0	26.3	1.21
J8XYCP		565.5	3.1	0.16	554.5	-7.2	-0.33
JR7ZXB	X	654.0	91.6	4.59	665.5	103.8	4.76
JRNV3U	X	495.5	-66.9	-3.35	505.0	-56.7	-2.60
KBJTZG		562.5	0.1	0.01	560.0	-1.7	-0.08
KCUNEX		572.4	10.0	0.50	557.5	-4.2	-0.19
KD269M		577.5	15.1	0.76	575.0	13.3	0.61

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KHV5H9	X	666.5	104.1	5.21	738.5	176.8	8.11
KSKBBE		567.0	4.6	0.23	560.5	-1.2	-0.05
KXE6G6		588.0	25.6	1.28	589.5	27.8	1.27
KY5JQD		547.5	-14.9	-0.74	543.5	-18.2	-0.83
KY8KRK		556.5	-5.9	-0.29	552.0	-9.7	-0.44
L16WUP		534.8	-27.6	-1.38	539.5	-22.2	-1.02
LPYVK7		579.0	16.6	0.83	580.5	18.8	0.86
LU4SUH		543.5	-18.9	-0.94	552.0	-9.7	-0.44
NDYX23		560.5	-1.9	-0.09	566.5	4.8	0.22
NEASNV		539.1	-23.3	-1.17	542.8	-18.9	-0.87
NRG99G	X	485.5	-76.9	-3.85	490.5	-71.2	-3.26
NYJP6U		564.5	2.1	0.11	569.5	7.8	0.36
P5D8GB	*	517.5	-44.9	-2.25	501.0	-60.7	-2.78
PE8NW2		546.5	-15.9	-0.79	546.0	-15.7	-0.72
PJZXUX		590.5	28.1	1.41	577.0	15.3	0.70
PRHJQR		591.0	28.6	1.43	588.0	26.3	1.21
PYG7UJ		534.3	-28.1	-1.41	531.5	-30.2	-1.38
PYN2JM		558.5	-3.9	-0.19	571.5	9.8	0.45
Q3Z3JH		558.0	-4.4	-0.22	576.0	14.3	0.66
QF3R1S		579.0	16.6	0.83	575.5	13.8	0.63
QS3R9J		550.0	-12.4	-0.62	545.0	-16.7	-0.77
QX2ZV3		534.5	-27.9	-1.40	530.0	-31.7	-1.45
R7C9NH		573.0	10.6	0.53	581.5	19.8	0.91
SAS5NS		585.5	23.1	1.16	586.0	24.3	1.11
SPGHBE	*	546.5	-15.9	-0.79	521.5	-40.2	-1.84
SVJ57C		565.0	2.6	0.13	561.5	-0.2	-0.01
SWBN15	X	657.5	95.1	4.76	590.5	28.8	1.32
TYYK22		556.0	-6.4	-0.32	557.5	-4.2	-0.19
U4ZQ5Y		564.5	2.1	0.11	573.0	11.3	0.52
ULVDYG		560.5	-1.9	-0.09	554.0	-7.7	-0.35
V245GH		556.5	-5.9	-0.29	543.5	-18.2	-0.83
V8387V		558.5	-3.9	-0.19	569.5	7.8	0.36
VEU86E		555.5	-6.9	-0.34	548.5	-13.2	-0.60
VHKV28		541.0	-21.4	-1.07	550.0	-11.7	-0.54
VNHVJ8		546.5	-15.9	-0.79	553.0	-8.7	-0.40

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VT3VTE		567.5	5.1	0.26	568.0	6.3	0.29
W1Q79Z		544.5	-17.9	-0.89	547.0	-14.7	-0.67
W27TX3		545.0	-17.4	-0.87	557.5	-4.2	-0.19
W2N815		577.5	15.1	0.76	577.0	15.3	0.70
WAK81R		581.5	19.1	0.96	582.0	20.3	0.93
WDPJY5	X	503.0	-59.4	-2.97	484.5	-77.2	-3.54
WK8939	X	464.0	-98.4	-4.92	465.5	-96.2	-4.41
WKHDF5	X	864.0	301.6	15.09	827.0	265.3	12.16
X2DTVG		599.0	36.6	1.83	598.5	36.8	1.69
X4WZ4F		527.0	-35.4	-1.77	515.0	-46.7	-2.14
X58KVJ		603.5	41.1	2.06	590.0	28.3	1.30
YDJPL5		565.5	3.1	0.16	551.0	-10.7	-0.49
YGTJW9		578.0	15.6	0.78	575.0	13.3	0.61
YXN2VG		522.5	-39.9	-2.00	521.0	-40.7	-1.87
YYWRVM		587.5	25.1	1.26	586.0	24.3	1.11
ZC6JUL		547.4	-15.0	-0.75	555.6	-6.1	-0.28
ZNP9Q9	*	551.5	-10.9	-0.54	524.0	-37.7	-1.73
ZWZLWR		568.0	5.6	0.28	586.0	24.3	1.11

Summary Statistics

Grand Means

562.38 percent

561.69 percent

Std Dev Btwn Labs

19.98 percent

21.81 percent

Statistics based on 113 of 123 reporting participants

Samples C51-C52: Polyisoprene compound, batch #1 & C53-C54: Polyisoprene compound, batch #2

Analysis 606

Ultimate Elongation (percent)

Comments on assigned Data Flags for Test #606

3B84EK (X) - Data for all Samples are low.

EBXZFP (X) - Inconsistency in testing between Sample sets. Data for Sample sets C53-C54 are low.

JR7ZXB (X) - Data for all Samples are high.

JRNV3U (X) - Inconsistency in testing between Sample sets. Data for Sample sets C51-C52 are low.

KHV5H9 (X) - Data for all Samples are high.

NRG99G (X) - Data for all Samples are low.

SWBN15 (X) - Inconsistency in testing between Sample sets. Data for Sample sets C51-C52 are high.

WDPJY5 (X) - Data for all Samples are low. Possible Systematic Error.

WK8939 (X) - Data for all Samples are low.

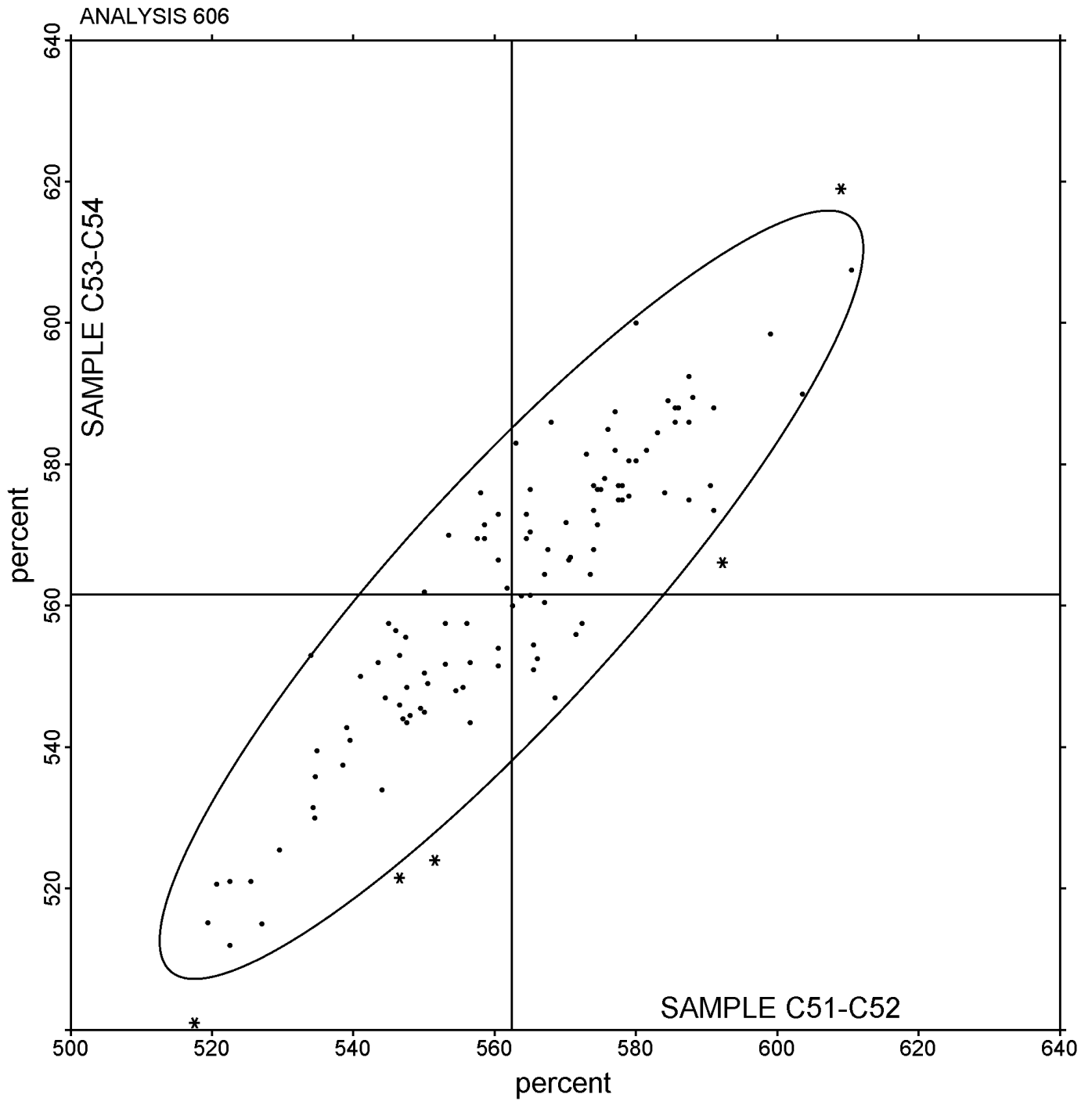
WKHDF5 (X) - Data for all Samples are high.

Analysis 606

Ultimate Elongation (percent)

Grand Mean Sample C51-C52 = 562.38 percent

Grand Mean Sample C53-C54 = 561.69 percent



Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
16KPQR		1,247.5	-16.3	-0.24	1,175.0	-88.1	-1.12
1A3FU2		1,288.5	24.7	0.36	1,272.0	8.9	0.11
1DD5SL		1,260.0	-3.8	-0.06	1,260.0	-3.1	-0.04
1JMW2F		1,311.5	47.7	0.70	1,273.0	9.9	0.13
1NFGUB		1,295.5	31.7	0.47	1,254.5	-8.6	-0.11
1QPEM7		1,326.0	62.2	0.92	1,266.0	2.9	0.04
1RN5TD		1,279.2	15.5	0.23	1,307.5	44.4	0.57
1Y4AJE		1,259.5	-4.3	-0.06	1,305.5	42.4	0.54
21SHJ8		1,142.2	-121.6	-1.79	1,168.3	-94.8	-1.21
2D5E37		1,214.5	-49.3	-0.72	1,211.5	-51.6	-0.66
2R3TGD		1,336.5	72.7	1.07	1,267.0	3.9	0.05
2XY9TR		1,337.5	73.7	1.08	1,336.5	73.4	0.94
2Z7G2P		1,182.1	-81.7	-1.20	1,196.6	-66.5	-0.85
31XL1E		1,204.5	-59.3	-0.87	1,292.0	28.9	0.37
3JLMG1		1,177.5	-86.3	-1.27	1,182.0	-81.1	-1.03
3L4HPB		1,193.0	-70.8	-1.04	1,109.5	-153.6	-1.96
3MB1RQ		1,254.6	-9.2	-0.13	1,197.3	-65.8	-0.84
3RNJYD		1,297.0	33.2	0.49	1,267.0	3.9	0.05
49W94M		1,183.7	-80.1	-1.18	1,167.0	-96.1	-1.23
4GWZW3		1,286.0	22.2	0.33	1,259.5	-3.6	-0.05
4NRNW9		1,281.8	18.0	0.26	1,184.5	-78.6	-1.00
5H3F6Z		1,216.0	-47.8	-0.70	1,199.0	-64.1	-0.82
5LK2XD		1,242.0	-21.8	-0.32	1,281.0	17.9	0.23
61KLRX		1,218.5	-45.3	-0.67	1,194.5	-68.6	-0.87
6CG62X		1,191.0	-72.8	-1.07	1,232.0	-31.1	-0.40
75XZCP	*	1,297.0	33.2	0.49	1,191.0	-72.1	-0.92
7DCP5V		1,243.0	-20.8	-0.31	1,262.6	-0.5	-0.01
7JAMWU		1,289.5	25.7	0.38	1,322.0	58.9	0.75
7R4E1M		1,142.5	-121.3	-1.78	1,094.0	-169.1	-2.16
7ZQLCS		1,246.6	-17.1	-0.25	1,279.2	16.1	0.21
7ZU8TH		1,239.0	-24.8	-0.36	1,236.0	-27.1	-0.35
873ZT4	*	1,421.5	157.7	2.32	1,481.5	218.4	2.79
878TSU		1,264.0	0.3	0.00	1,271.6	8.5	0.11
8N1LL9		1,386.5	122.7	1.81	1,405.5	142.4	1.82
8YW9AQ	*	1,426.5	162.7	2.39	1,469.5	206.4	2.63

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
A7R5ZR	X	923.5	-340.3	-5.00	1,015.0	-248.1	-3.16
AJR9BL		1,241.5	-22.3	-0.33	1,233.5	-29.6	-0.38
AT7KFX		1,161.8	-102.0	-1.50	1,150.2	-112.9	-1.44
AZZNU5	*	1,254.5	-9.3	-0.14	1,134.5	-128.6	-1.64
B2PUSJ		1,202.5	-61.3	-0.90	1,232.0	-31.1	-0.40
B5PB78		1,275.5	11.8	0.17	1,308.8	45.7	0.58
BAKTLP		1,155.5	-108.3	-1.59	1,173.0	-90.1	-1.15
BPPGVU		1,243.5	-20.3	-0.30	1,257.0	-6.1	-0.08
BQACY5		1,287.5	23.7	0.35	1,293.0	29.9	0.38
BQUCAK		1,254.5	-9.3	-0.14	1,301.0	37.9	0.48
BVFZP4	X	1,704.5	440.7	6.48	1,773.5	510.4	6.51
C34VU1		1,310.0	46.2	0.68	1,287.0	23.9	0.30
C6662L		1,353.5	89.7	1.32	1,350.5	87.4	1.11
CFCMHV	*	1,457.6	193.9	2.85	1,443.1	180.0	2.30
CFVDKE		1,179.5	-84.3	-1.24	1,157.0	-106.1	-1.35
CZL7BF		1,399.5	135.7	2.00	1,453.0	189.9	2.42
DL1WHX		1,183.5	-80.3	-1.18	1,153.0	-110.1	-1.40
DUB6X9		1,190.6	-73.2	-1.08	1,170.9	-92.2	-1.18
DYFTUC		1,212.5	-51.3	-0.75	1,223.0	-40.1	-0.51
E2GKZP		1,277.5	13.7	0.20	1,259.5	-3.6	-0.05
FGS7JG		1,255.5	-8.3	-0.12	1,300.5	37.4	0.48
FP2LFT	*	1,434.4	170.6	2.51	1,400.9	137.8	1.76
G4TTKK		1,335.0	71.2	1.05	1,348.5	85.4	1.09
GLF939		1,222.7	-41.1	-0.60	1,268.4	5.3	0.07
GZSVXN		1,360.3	96.5	1.42	1,343.9	80.8	1.03
HLAL7Z	X	1,147.4	-116.4	-1.71	1,276.8	13.7	0.18
HLX6YF		1,244.6	-19.2	-0.28	1,278.2	15.1	0.19
HU4G4G		1,287.8	24.0	0.35	1,281.5	18.4	0.23
HW7Q6C		1,308.0	44.2	0.65	1,297.0	33.9	0.43
JR1XN3		1,389.5	125.7	1.85	1,376.8	113.7	1.45
JW35VR		1,258.2	-5.5	-0.08	1,277.8	14.7	0.19
JX74D2		1,229.9	-33.8	-0.50	1,217.6	-45.5	-0.58
K46VF4		1,320.5	56.7	0.83	1,349.2	86.1	1.10
KHKMW8		1,143.5	-120.3	-1.77	1,172.0	-91.1	-1.16
KN27FQ		1,140.0	-123.7	-1.82	1,108.8	-154.3	-1.97

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KR4BYS		1,224.0	-39.8	-0.58	1,204.5	-58.6	-0.75
L3QFNB		1,341.5	77.7	1.14	1,339.0	75.9	0.97
LKKVBA		1,399.0	135.2	1.99	1,405.0	141.9	1.81
LQJZFH		1,241.8	-21.9	-0.32	1,274.8	11.7	0.15
NPU3U3		1,217.6	-46.2	-0.68	1,237.2	-25.9	-0.33
NQLPBZ	X	939.5	-324.3	-4.77	972.0	-291.1	-3.71
PGJX5Q		1,311.2	47.4	0.70	1,327.1	64.0	0.82
PHBKHL	*	1,162.5	-101.3	-1.49	1,250.0	-13.1	-0.17
PLRRNE		1,245.9	-17.9	-0.26	1,260.4	-2.7	-0.03
PMH481		1,211.5	-52.3	-0.77	1,222.0	-41.1	-0.52
Q6263N		1,231.0	-32.8	-0.48	1,257.0	-6.1	-0.08
QABX8D		1,276.5	12.7	0.19	1,278.0	14.9	0.19
QDFLZ2	X	969.5	-294.3	-4.33	963.0	-300.1	-3.83
QFEPXW		1,308.2	44.4	0.65	1,311.0	47.9	0.61
QL1CQ1		1,194.4	-69.4	-1.02	1,142.2	-120.9	-1.54
QTNQXK		1,173.5	-90.3	-1.33	1,225.5	-37.6	-0.48
QWF3W5		1,306.5	42.7	0.63	1,245.5	-17.6	-0.22
QXUTPN	X	1,348.9	85.1	1.25	1,482.3	219.2	2.80
RMRVDP		1,224.0	-39.8	-0.58	1,239.0	-24.1	-0.31
RU8FA7		1,200.0	-63.8	-0.94	1,178.0	-85.1	-1.09
RVTJGA	*	1,251.7	-12.1	-0.18	1,351.8	88.7	1.13
S3MZNA		1,316.5	52.7	0.78	1,270.0	6.9	0.09
SFVCZ7		1,380.2	116.4	1.71	1,356.3	93.2	1.19
TJ1K2M		1,197.5	-66.3	-0.97	1,239.0	-24.1	-0.31
TQ94T2		1,244.5	-19.2	-0.28	1,201.9	-61.2	-0.78
TZ6LHJ		1,319.5	55.7	0.82	1,302.0	38.9	0.50
U414KC		1,253.0	-10.8	-0.16	1,233.0	-30.1	-0.38
U9HQSE		1,357.6	93.8	1.38	1,405.4	142.3	1.82
UFNQLE		1,307.2	43.4	0.64	1,295.7	32.6	0.42
ULDQYW		1,275.5	11.7	0.17	1,285.0	21.9	0.28
UXB5ZX		1,196.5	-67.3	-0.99	1,129.0	-134.1	-1.71
V4NSYN		1,332.0	68.2	1.00	1,338.0	74.9	0.96
V7JITG		1,266.0	2.2	0.03	1,220.5	-42.6	-0.54
V9ZD8C		1,275.5	11.7	0.17	1,277.0	13.9	0.18
VQ67SZ		1,272.0	8.2	0.12	1,267.5	4.4	0.06

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VY9JHP		1,200.4	-63.4	-0.93	1,150.5	-112.6	-1.44
WBXE9A		1,237.5	-26.3	-0.39	1,217.5	-45.6	-0.58
XAY31B		1,256.5	-7.3	-0.11	1,271.0	7.9	0.10
XN2L9B		1,199.0	-64.8	-0.95	1,154.2	-108.9	-1.39
Y19TVG		1,302.5	38.7	0.57	1,353.0	89.9	1.15
Y9FYZ4		1,301.0	37.2	0.55	1,274.0	10.9	0.14
YB5D8S		1,211.5	-52.3	-0.77	1,268.5	5.4	0.07
YHGSCJ		1,320.5	56.7	0.83	1,381.0	117.9	1.50
ZE8HS7		1,274.0	10.2	0.15	1,335.5	72.4	0.92
ZJXNUL		1,221.5	-42.3	-0.62	1,245.5	-17.6	-0.22
ZRCNQ5		1,231.5	-32.3	-0.47	1,242.5	-20.6	-0.26
ZVQ4QH		1,254.0	-9.8	-0.14	1,269.5	6.4	0.08

Summary Statistics

Grand Means

1,263.76 psi

1,263.09 psi

Std Dev Btwn Labs

68.00 psi

78.40 psi

Statistics based on 111 of 117 reporting participants

Summary Statistics in SI Units

Grand Means

8.7132 MPa

8.71 MPa

Std Dev Btwn Labs

0.4688 MPa

0.54 MPa

Statistics based on 111 of 117 reporting participants

Samples C51-C52: Polyisoprene compound, batch #1 & C53-C54: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #607

A7R5ZR (X) - Data for all Samples are low.

BVFZP4 (X) - Data for all Samples are high.

HLAL7Z (X) - Inconsistency in testing between Sample sets.

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

QDFLZ2 (X) - Data for all Samples are low.

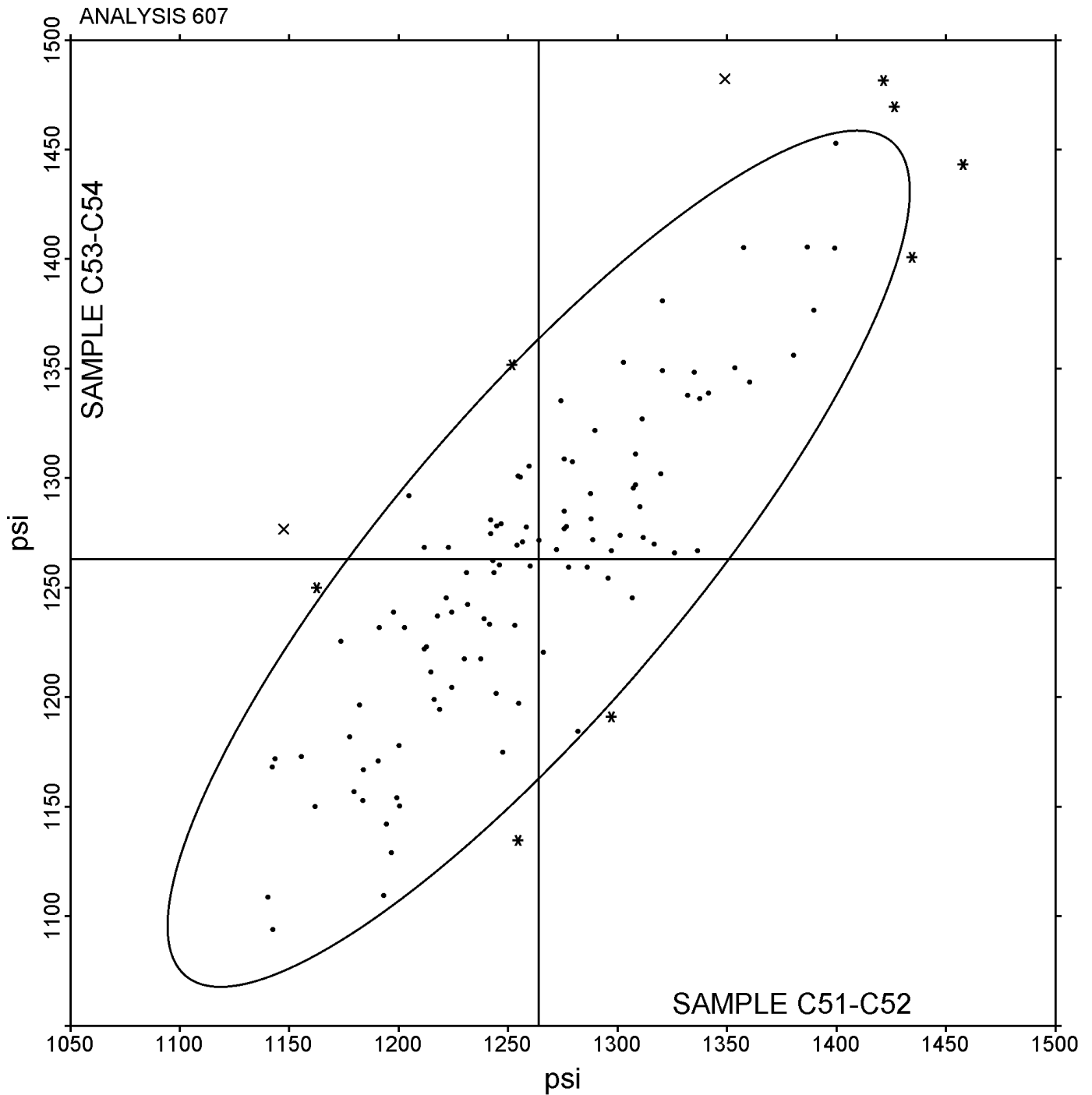
QXUTPN (X) - Inconsistency in testing between Sample sets. Data for Sample sets C53-C54 are high.

Analysis 607

Stress at 300% Elongation (psi)

Grand Mean Sample C51-C52 = 1,263.76 psi

Grand Mean Sample C53-C54 = 1,263.09 psi



Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1S5WE1		292.5	24.1	1.32	283.0	14.6	0.72
1WY3M5		246.0	-22.4	-1.23	248.0	-20.4	-1.00
1X1PNQ		281.8	13.4	0.73	285.2	16.8	0.83
2HAEMT		284.5	16.1	0.88	286.5	18.1	0.89
3FPDKB		260.7	-7.7	-0.42	258.8	-9.6	-0.47
3K25X4		273.0	4.6	0.25	260.5	-7.9	-0.39
3LX5ZE	*	287.9	19.5	1.07	311.8	43.5	2.14
3S7MY4		298.9	30.5	1.67	277.7	9.3	0.46
3VYANZ		265.0	-3.4	-0.18	269.0	0.6	0.03
3XDEQJ		264.5	-3.9	-0.21	259.5	-8.9	-0.44
417Y3Z		291.9	23.5	1.29	286.9	18.6	0.91
43JHBR		236.5	-31.9	-1.75	241.0	-27.4	-1.34
4816AN		253.0	-15.4	-0.84	257.5	-10.9	-0.53
4ZKML3		260.0	-8.4	-0.46	257.5	-10.9	-0.53
54X7BD		277.9	9.5	0.52	271.7	3.4	0.17
5MZT6K		246.6	-21.8	-1.19	259.6	-8.7	-0.43
66FLB6		268.8	0.4	0.02	242.5	-25.9	-1.27
74L2L5	X	336.5	68.1	3.73	318.5	50.1	2.46
76SF68	*	243.5	-24.9	-1.36	269.2	0.8	0.04
78SRUE	*	224.5	-43.9	-2.40	219.0	-49.4	-2.43
7DZRT4		271.5	3.1	0.17	275.0	6.6	0.33
7MNMME		253.0	-15.4	-0.84	258.0	-10.4	-0.51
8CP2MU		259.8	-8.6	-0.47	263.8	-4.6	-0.23
8CSUWJ		287.9	19.5	1.07	289.4	21.0	1.03
8GP22B		264.0	-4.4	-0.24	272.0	3.6	0.18
8M52M2		256.0	-12.4	-0.68	254.5	-13.8	-0.68
955BB3		265.0	-3.4	-0.18	263.0	-5.4	-0.26
9GB5TY		265.0	-3.4	-0.18	277.5	9.1	0.45
9XX94W		269.5	1.1	0.06	272.5	4.1	0.20
9Y548N		243.5	-24.9	-1.36	239.5	-28.9	-1.42
A56U9N		280.5	12.1	0.66	271.1	2.7	0.13
AEPTXF		291.5	23.1	1.27	275.5	7.1	0.35
AHY7RP		267.0	-1.4	-0.07	260.9	-7.5	-0.37
AQX5MR		258.9	-9.5	-0.52	266.9	-1.5	-0.07
B2Q4XW		259.0	-9.4	-0.51	257.5	-10.9	-0.53

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
B48Z3K		281.5	13.1	0.72	281.0	12.6	0.62
BH55ZV		267.0	-1.4	-0.07	267.5	-0.9	-0.04
BJHWZ8		268.5	0.1	0.01	260.0	-8.4	-0.41
C3WTP5		293.6	25.2	1.38	307.0	38.6	1.90
CU2T4G		248.5	-19.9	-1.09	258.0	-10.4	-0.51
CY91VJ		251.0	-17.4	-0.95	257.0	-11.4	-0.56
CZ1KM5		268.5	0.1	0.01	250.0	-18.4	-0.90
DFBYXC		258.9	-9.5	-0.52	240.0	-28.3	-1.39
DJU67V	*	291.5	23.1	1.27	314.0	45.6	2.24
DS4KYZ		278.0	9.6	0.53	272.0	3.6	0.18
EGGEHC		282.5	14.1	0.77	295.0	26.6	1.31
EMUHTC		296.0	27.6	1.51	293.0	24.6	1.21
EVAA41		270.0	1.6	0.09	270.0	1.6	0.08
EVWM8F		283.0	14.6	0.80	276.5	8.1	0.40
EXB7DN	*	267.5	-0.9	-0.05	236.5	-31.9	-1.57
EYLR5S		242.2	-26.1	-1.43	244.4	-24.0	-1.18
FKKYBG		265.5	-2.9	-0.16	258.5	-9.9	-0.48
FL3QNU		273.5	5.1	0.28	267.5	-0.9	-0.04
G3LG8Q		278.5	10.1	0.56	264.0	-4.4	-0.21
G4FTR4		295.0	26.6	1.46	309.0	40.6	2.00
G7JK2Q		260.0	-8.4	-0.46	257.0	-11.4	-0.56
HCGKNB		269.0	0.6	0.03	288.5	20.1	0.99
HDAY2X		263.0	-5.4	-0.29	260.0	-8.4	-0.41
HGLQK7		263.0	-5.4	-0.29	266.0	-2.4	-0.12
HSL5PU		271.9	3.6	0.20	285.0	16.6	0.82
J2DAF7		272.5	4.1	0.23	277.0	8.6	0.42
JF8424		282.0	13.6	0.75	282.5	14.1	0.69
JPZP1A		243.0	-25.4	-1.39	231.0	-37.4	-1.84
JRRAPC		276.3	7.9	0.43	257.4	-10.9	-0.54
JVNZ1A		297.5	29.1	1.60	276.5	8.1	0.40
JWPHT6		261.0	-7.4	-0.40	262.5	-5.9	-0.29
K4W7GE		304.6	36.2	1.98	304.6	36.2	1.78
K5GC8F	*	313.6	45.2	2.48	307.8	39.4	1.94
KSYK2P		240.8	-27.6	-1.51	235.0	-33.4	-1.64
KX18C1		241.5	-26.9	-1.47	246.0	-22.4	-1.10

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
LC6KZ7		271.2	2.9	0.16	280.7	12.3	0.60
LGT7EN		280.0	11.6	0.64	278.0	9.6	0.47
LK6E8X		239.3	-29.1	-1.59	239.3	-29.0	-1.43
LXEFX1	X	415.5	147.1	8.06	464.0	195.6	9.61
MB8EAU		273.5	5.1	0.28	281.0	12.6	0.62
MMKA14		253.5	-14.9	-0.81	264.0	-4.4	-0.21
MUYSE5		263.6	-4.8	-0.26	266.2	-2.2	-0.11
NCB95V	*	216.0	-52.4	-2.87	216.0	-52.4	-2.57
NTFKSK		266.5	-1.9	-0.10	251.0	-17.4	-0.85
P48JS5		283.0	14.6	0.80	257.5	-10.9	-0.53
PL7RRR	*	312.0	43.6	2.39	323.0	54.6	2.68
PY9H1R		282.5	14.1	0.77	275.5	7.1	0.35
Q2HT1C		307.5	39.1	2.14	318.0	49.6	2.44
QH56GW		268.0	-0.4	-0.02	281.3	12.9	0.63
QJ8ZPN		264.0	-4.4	-0.24	273.5	5.1	0.25
QVB2TZ		257.0	-11.4	-0.62	252.5	-15.9	-0.78
R11HWH		233.5	-34.9	-1.91	249.0	-19.4	-0.95
R89N3J		252.5	-15.9	-0.87	247.5	-20.9	-1.02
RLSER2		295.0	26.6	1.46	294.2	25.9	1.27
S945TA		261.5	-6.9	-0.38	247.0	-21.4	-1.05
SDMGJ5		260.0	-8.4	-0.46	270.0	1.6	0.08
SMZJTC		261.5	-6.9	-0.38	256.5	-11.9	-0.58
SST3SV		282.2	13.8	0.76	282.4	14.0	0.69
SWL41A		309.7	41.3	2.26	310.4	42.0	2.06
TFSZ29		273.0	4.6	0.25	279.0	10.6	0.52
TSY4NH		275.5	7.1	0.39	268.5	0.1	0.01
TZPVTX		254.8	-13.6	-0.74	251.4	-17.0	-0.84
UEATX1		263.1	-5.2	-0.29	248.9	-19.5	-0.96
UGRSM9		263.5	-4.9	-0.27	266.0	-2.4	-0.12
UMKSBK		269.2	0.8	0.05	276.4	8.0	0.39
UYCUK9		242.9	-25.4	-1.39	235.7	-32.7	-1.61
UYXKQ1		259.4	-8.9	-0.49	247.1	-21.2	-1.04
V2NXFT		283.0	14.6	0.80	287.0	18.6	0.92
W2R7DL		255.3	-13.1	-0.72	261.1	-7.3	-0.36
WBZQ2B		265.4	-2.9	-0.16	269.0	0.7	0.03

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
WCFA3S		249.5	-18.9	-1.03	240.5	-27.9	-1.37
WF3AHT		255.5	-12.9	-0.70	277.0	8.6	0.42
WXK8R5		249.5	-18.9	-1.04	266.9	-1.5	-0.07
XX4GA4		252.0	-16.4	-0.90	263.0	-5.4	-0.26
Y1AMR2		276.0	7.6	0.42	288.5	20.1	0.99
YG7B7B		261.0	-7.4	-0.40	273.5	5.1	0.25
YK5KH2		268.0	-0.4	-0.02	269.5	1.1	0.06
YP65HD		278.5	10.1	0.55	288.6	20.3	1.00
YRMQYK		272.5	4.1	0.23	275.0	6.6	0.33
Z4NNER		298.0	29.6	1.62	289.5	21.1	1.04
Z56WWE		259.0	-9.4	-0.51	237.0	-31.4	-1.54
ZCHSE3		259.0	-9.4	-0.51	266.0	-2.4	-0.12
ZMAJ5T		290.1	21.7	1.19	290.1	21.7	1.07
ZZS3F2		261.8	-6.6	-0.36	269.0	0.7	0.03

Summary Statistics			
Grand Means	268.36	psi	268.36
Std Dev Btwn Labs	18.25	psi	20.35
Statistics based on 117 of 119 reporting participants			

Summary Statistics in SI Units			
Grand Means	1.8503	MPa	1.85
Std Dev Btwn Labs	0.1258	MPa	0.14
Statistics based on 117 of 119 reporting participants			

Samples C51-C52: Polyisoprene compound, batch #1 & C53-C54: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #608

74L2L5 (X) - Inconsistency in testing between Sample sets. Data for Sample sets C51-C52 are high.

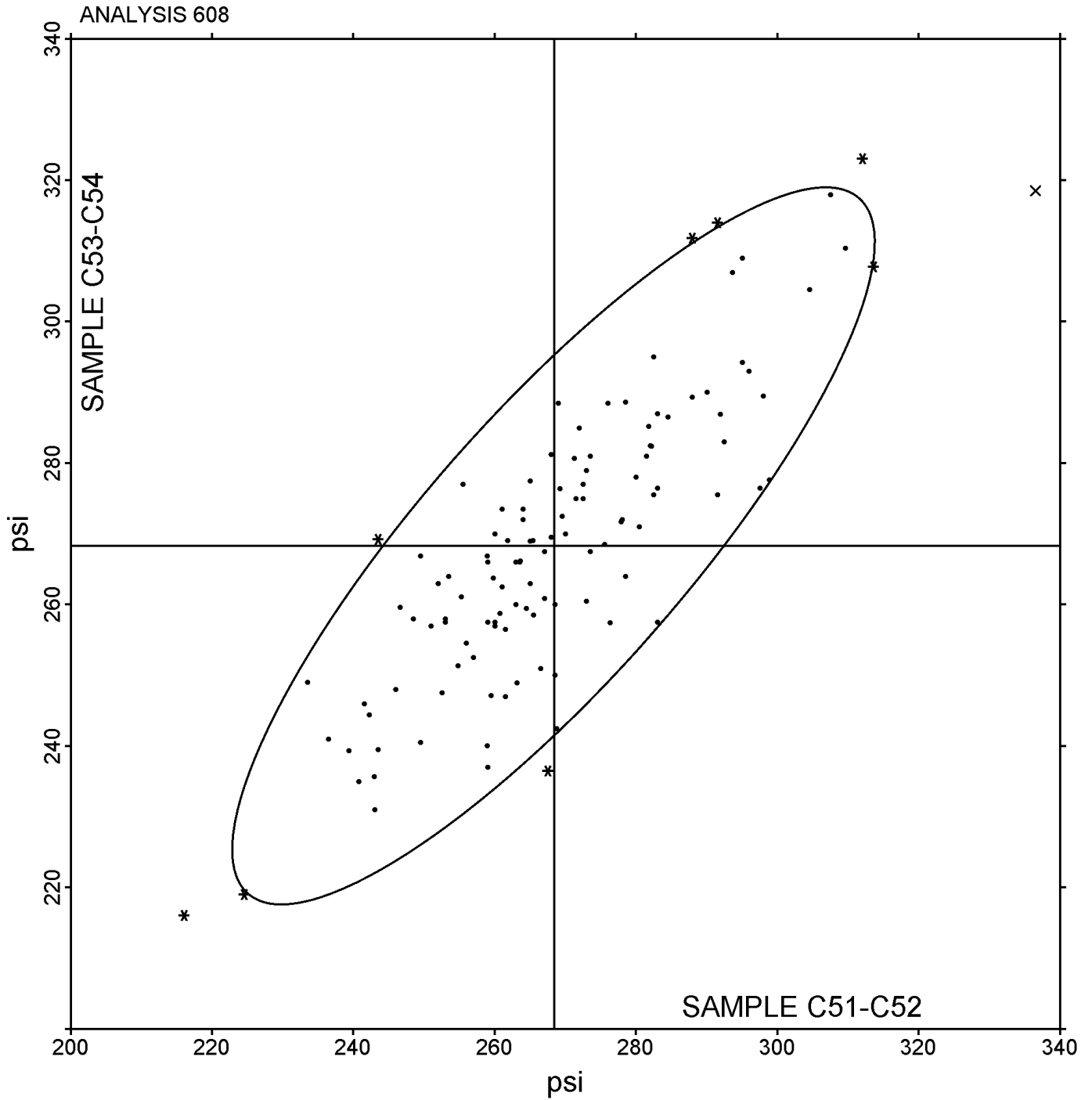
LXEFX1 (X) - Data for all Samples are high.

Analysis 608

Stress at 100% Elongation (psi)

Grand Mean Sample C51-C52 = 268.36 psi

Grand Mean Sample C53-C54 = 268.36 psi



Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1CQW8L		50.85	-1.77	-1.05	51.55	-1.05	-0.62
1D1D69		51.50	-1.12	-0.67	52.00	-0.60	-0.36
1HZNHW		54.50	1.88	1.12	54.50	1.90	1.12
1Q1JCM		51.50	-1.12	-0.67	52.00	-0.60	-0.36
1Q2SKU		55.95	3.33	1.98	55.95	3.35	1.98
25V5LA		51.00	-1.62	-0.97	50.50	-2.10	-1.24
2LYCHW		52.50	-0.12	-0.07	52.00	-0.60	-0.36
2TPEEF		53.70	1.08	0.64	54.15	1.55	0.91
317JZN		52.00	-0.62	-0.37	52.50	-0.10	-0.06
3APU51		53.50	0.88	0.52	53.50	0.90	0.53
3D2NSQ		52.25	-0.37	-0.22	51.95	-0.65	-0.38
3LZMTT		51.00	-1.62	-0.97	50.75	-1.85	-1.09
3NDS8G		51.10	-1.52	-0.91	50.85	-1.75	-1.03
3RXBYJ		52.50	-0.12	-0.07	51.95	-0.65	-0.38
3SWCC3		52.45	-0.17	-0.10	52.70	0.10	0.06
3VE1MW		53.00	0.38	0.22	53.00	0.40	0.24
3VQB9N		51.50	-1.12	-0.67	51.50	-1.10	-0.65
431K7V		54.50	1.88	1.12	54.50	1.90	1.12
448HX8		54.00	1.38	0.82	53.50	0.90	0.53
46VLMN		52.90	0.28	0.16	53.00	0.40	0.24
46ZETY		53.50	0.88	0.52	53.00	0.40	0.24
4EXJ37		52.30	-0.32	-0.19	52.50	-0.10	-0.06
4R1ERT		52.00	-0.62	-0.37	52.00	-0.60	-0.36
4S1GPV		52.50	-0.12	-0.07	52.50	-0.10	-0.06
54HB1X		54.50	1.88	1.12	54.50	1.90	1.12
598VYP		52.85	0.23	0.13	53.65	1.05	0.62
5JXYEW		52.00	-0.62	-0.37	52.00	-0.60	-0.36
5PX2T8		50.45	-2.17	-1.29	50.80	-1.80	-1.06
67GY9W		49.90	-2.72	-1.62	49.65	-2.95	-1.74
6E4SGT		51.50	-1.12	-0.67	51.50	-1.10	-0.65
7N3B7Z		56.00	3.38	2.01	56.00	3.40	2.01
7QB372		54.00	1.38	0.82	54.60	2.00	1.18
7YEWYN		50.30	-2.32	-1.38	49.95	-2.65	-1.57
8QNLJX		54.00	1.38	0.82	55.00	2.40	1.42
9344P4		51.50	-1.12	-0.67	52.50	-0.10	-0.06

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
9BXT88		56.10	3.48	2.07	55.85	3.25	1.92
9LKHD9		51.10	-1.52	-0.91	51.45	-1.15	-0.68
AGHAWZ		53.00	0.38	0.22	52.00	-0.60	-0.36
AH6HAL		51.50	-1.12	-0.67	51.00	-1.60	-0.95
AJD1WB		51.70	-0.92	-0.55	51.50	-1.10	-0.65
AJLZB6		54.00	1.38	0.82	55.00	2.40	1.42
BGB7YG		51.80	-0.82	-0.49	51.80	-0.80	-0.47
BHASW9		52.50	-0.12	-0.07	52.00	-0.60	-0.36
BQNVNZ	X	50.00	-2.62	-1.56	52.00	-0.60	-0.36
BYX8TV		53.00	0.38	0.22	53.00	0.40	0.24
C2TXLW		51.90	-0.72	-0.43	50.90	-1.70	-1.01
C5X5WW		54.00	1.38	0.82	54.00	1.40	0.83
CEY4GC		53.50	0.88	0.52	54.00	1.40	0.83
CKNR45		54.00	1.38	0.82	54.00	1.40	0.83
CL8PY5		52.50	-0.12	-0.07	53.00	0.40	0.24
D1WBJC		51.10	-1.52	-0.91	51.15	-1.45	-0.86
D6F7RK		51.50	-1.12	-0.67	51.80	-0.80	-0.47
DQLN1B		52.45	-0.17	-0.10	52.20	-0.40	-0.24
DYHJ3F		55.00	2.38	1.41	54.50	1.90	1.12
F2NWPB		52.55	-0.07	-0.04	52.40	-0.20	-0.12
F8KCRP		52.00	-0.62	-0.37	52.50	-0.10	-0.06
FU8TJT		51.60	-1.02	-0.61	51.70	-0.90	-0.53
G7PABZ		52.35	-0.27	-0.16	51.75	-0.85	-0.50
GCP4DT		54.00	1.38	0.82	54.00	1.40	0.83
GWXWD		52.50	-0.12	-0.07	52.00	-0.60	-0.36
GZ9ZC3	*	51.50	-1.12	-0.67	53.00	0.40	0.24
HJR3BG		53.50	0.88	0.52	54.00	1.40	0.83
HMSW3D		53.00	0.38	0.22	52.50	-0.10	-0.06
HVEDH3		50.95	-1.67	-1.00	50.95	-1.65	-0.98
KFTSZC		51.50	-1.12	-0.67	51.45	-1.15	-0.68
KK78KP		50.00	-2.62	-1.56	50.00	-2.60	-1.54
LLA2CA		53.50	0.88	0.52	53.50	0.90	0.53
M48R5W		50.15	-2.47	-1.47	50.10	-2.50	-1.48
M5GAZC		52.50	-0.12	-0.07	52.80	0.20	0.12
M7EVS8		52.50	-0.12	-0.07	52.80	0.20	0.12

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MC97PU		55.85	3.23	1.92	54.95	2.35	1.39
MJ4WNV		52.60	-0.02	-0.01	52.00	-0.60	-0.36
MJJUL8		52.00	-0.62	-0.37	52.25	-0.35	-0.21
MK8TGJ		51.60	-1.02	-0.61	51.35	-1.25	-0.74
MK9HXP	X	45.50	-7.12	-4.24	48.50	-4.10	-2.42
N1A8BQ		56.50	3.88	2.30	56.50	3.90	2.30
N378GL		55.00	2.38	1.41	55.00	2.40	1.42
NTR7QL		56.10	3.48	2.07	55.70	3.10	1.83
P4RZ2Y		55.45	2.83	1.68	54.95	2.35	1.39
P78X4R		52.00	-0.62	-0.37	52.00	-0.60	-0.36
PTF1MM		54.25	1.63	0.97	54.25	1.65	0.97
QE7H94		53.00	0.38	0.22	52.50	-0.10	-0.06
QFZATA		53.15	0.53	0.31	52.65	0.05	0.03
QGUEJG		52.20	-0.42	-0.25	52.30	-0.30	-0.18
QSKPJA		49.00	-3.62	-2.15	48.50	-4.10	-2.42
QZ7VNY		50.00	-2.62	-1.56	50.00	-2.60	-1.54
R29N86		51.50	-1.12	-0.67	51.20	-1.40	-0.83
R46XN9	*	51.50	-1.12	-0.67	53.00	0.40	0.24
R9Y5YW		51.70	-0.92	-0.55	51.40	-1.20	-0.71
RMRX16	*	57.00	4.38	2.60	56.50	3.90	2.30
RW6NZG		54.75	2.13	1.26	54.90	2.30	1.36
RYNKUF	X	14.00	-38.62	-22.97	14.00	-38.60	-22.80
S12PSW	*	51.50	-1.12	-0.67	53.00	0.40	0.24
SA9MX8		49.50	-3.12	-1.86	49.50	-3.10	-1.83
SCZFN2		53.00	0.38	0.22	53.00	0.40	0.24
SD84YV		50.10	-2.52	-1.50	49.40	-3.20	-1.89
SHWWFQ		53.50	0.88	0.52	54.00	1.40	0.83
SSRA49		55.00	2.38	1.41	55.00	2.40	1.42
TAF33Y		51.00	-1.62	-0.97	51.00	-1.60	-0.95
TFGKXA		54.00	1.38	0.82	54.00	1.40	0.83
TMJRFQ		56.00	3.38	2.01	55.50	2.90	1.71
TN4ARG	*	51.50	-1.12	-0.67	53.00	0.40	0.24
TVEVYD		51.00	-1.62	-0.97	51.00	-1.60	-0.95
TVTZ76		54.00	1.38	0.82	54.00	1.40	0.83
TW69W9		53.50	0.88	0.52	54.00	1.40	0.83

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TWBDTJ		52.45	-0.17	-0.10	52.75	0.15	0.09
TYJ2LP		53.65	1.03	0.61	53.25	0.65	0.38
UN3552		50.85	-1.77	-1.05	50.40	-2.20	-1.30
V5U7ZB		52.50	-0.12	-0.07	52.50	-0.10	-0.06
V7P3ZY		51.75	-0.87	-0.52	51.75	-0.85	-0.50
VF18TW		49.50	-3.12	-1.86	49.50	-3.10	-1.83
VQAKFU		56.00	3.38	2.01	56.00	3.40	2.01
VRLYYH		53.50	0.88	0.52	54.00	1.40	0.83
VUSBMB	*	54.00	1.38	0.82	52.50	-0.10	-0.06
W5A5WA		53.35	0.73	0.43	52.70	0.10	0.06
W6JB56		53.50	0.88	0.52	53.00	0.40	0.24
W8PY9E		49.50	-3.12	-1.86	50.00	-2.60	-1.54
WAW5ZM		53.00	0.38	0.22	53.00	0.40	0.24
X2DPLE		51.85	-0.77	-0.46	51.50	-1.10	-0.65
XGBQCW		52.50	-0.12	-0.07	51.50	-1.10	-0.65
Y86GVS		51.55	-1.07	-0.64	51.05	-1.55	-0.92
ZV9BBQ		49.50	-3.12	-1.86	49.00	-3.60	-2.13
ZXZ39Q		54.00	1.38	0.82	53.00	0.40	0.24
ZZ3HG8		51.50	-1.12	-0.67	52.00	-0.60	-0.36

Summary Statistics

Grand Means

52.624 Type A

52.602 Type A

Std Dev Btwn Labs

1.682 Type A

1.693 Type A

Statistics based on 121 of 124 reporting participants

Samples C51-C52: Polyisoprene compound, batch #1 & C53-C54: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #620

BQNVNZ (X) - Inconsistency in testing between Sample sets. Also inconsistency in testing within Sample sets C51-C52.

MK9HXP (X) - Inconsistency in testing between Sample sets. Data for Sample sets C51-C52 are low. Also inconsistency in testing within Sample sets.

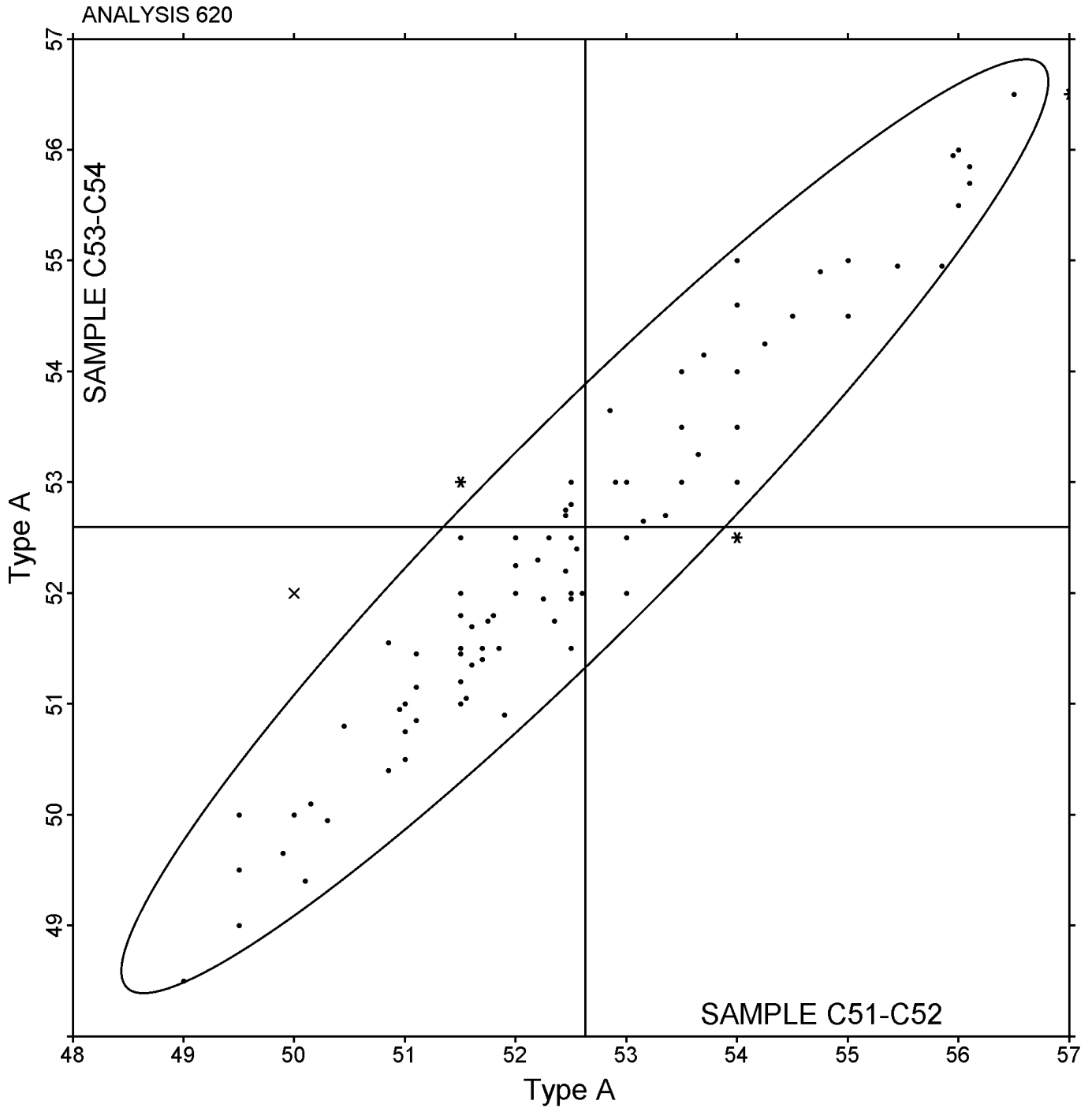
RYNKUF (X) - Data for all Samples are low.

Analysis 620

Hardness (Shore A/Type A)

Grand Mean Sample C51-C52 = 52.624 Type A

Grand Mean Sample C53-C54 = 52.602 Type A



Analysis 630

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

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1B46GU		3,291.5	77.6	0.43	3,052.5	163.2	0.97
1ZNG87		3,456.0	242.1	1.33	3,263.5	374.2	2.21
2UM6CE		3,356.8	142.9	0.79	2,879.8	-9.5	-0.06
3PVU3T		3,352.5	138.6	0.76	2,940.5	51.2	0.30
5BBNZK	X	3,479.5	265.6	1.46	1,985.6	-903.7	-5.35
5CMJGK		3,088.0	-125.9	-0.69	2,735.0	-154.3	-0.91
5N22JX		3,198.7	-15.2	-0.08	2,991.1	101.7	0.60
5XU2TV		3,048.5	-165.4	-0.91	2,937.0	47.7	0.28
67TTFW		3,130.4	-83.5	-0.46	2,889.1	-0.3	0.00
6A8CCL		3,009.6	-204.3	-1.12	2,748.5	-140.8	-0.83
6C2CCZ		3,038.6	-175.3	-0.96	2,792.0	-97.3	-0.58
6LLCHN		3,221.0	7.1	0.04	2,915.0	25.7	0.15
72FYXE		2,971.5	-242.4	-1.33	2,915.0	25.7	0.15
7ZN1J1		3,485.5	271.6	1.49	3,141.0	251.7	1.49
9228R2		2,800.5	-413.4	-2.27	2,548.0	-341.3	-2.02
95GCEM	*	2,720.8	-493.1	-2.71	2,564.5	-324.8	-1.92
9X7XX9		3,177.1	-36.8	-0.20	2,961.7	72.4	0.43
CQ7UWE		3,212.5	-1.4	-0.01	2,578.5	-310.8	-1.84
DJ4C23		3,288.0	74.2	0.41	2,781.1	-108.2	-0.64
DS9RPZ		3,287.6	73.8	0.41	3,082.5	193.2	1.14
EAKWLQ		3,354.8	140.9	0.77	2,912.7	23.4	0.14
FU68NF		3,517.8	303.9	1.67	3,051.6	162.2	0.96
GGMJYR	X	3,250.0	36.1	0.20	2,345.0	-544.3	-3.22
HNB3S4		3,186.0	-27.9	-0.15	2,708.6	-180.7	-1.07
JBRZVR		3,143.7	-70.1	-0.39	2,865.2	-24.1	-0.14
JMNEQJ		3,422.5	208.6	1.15	3,087.0	197.7	1.17
JU15XG		3,454.5	240.6	1.32	2,737.5	-151.8	-0.90
JURWNP		2,897.2	-316.7	-1.74	2,776.8	-112.6	-0.67
JZ8PXP		3,342.5	128.6	0.71	2,984.0	94.7	0.56
K7263X		2,959.9	-254.0	-1.40	2,889.1	-0.2	0.00
LQNX5V		3,331.0	117.1	0.64	2,899.5	10.2	0.06
NMR9DG		3,493.5	279.6	1.54	3,145.0	255.7	1.51
PEK186		3,209.0	-4.9	-0.03	2,658.0	-231.3	-1.37
PJ9RXX		3,250.3	36.4	0.20	2,993.1	103.7	0.61
RU9E83		3,270.0	56.1	0.31	2,995.0	105.7	0.63

Analysis 630

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

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
S5MS5G		3,248.0	34.1	0.19	3,052.0	162.7	0.96
S6AWH1		3,142.0	-71.9	-0.39	2,877.5	-11.8	-0.07
TAN3E1		3,250.0	36.1	0.20	3,072.0	182.7	1.08
WFVVNS		3,422.0	208.1	1.14	3,040.5	151.2	0.89
WPDEPS		3,207.5	-6.4	-0.03	2,739.0	-150.3	-0.89
X6DK43	*	3,355.0	141.1	0.78	2,575.5	-313.8	-1.86
XGJL9L		3,220.0	6.1	0.03	2,719.0	-170.3	-1.01
YJDKLJ		3,133.6	-80.3	-0.44	2,984.8	95.4	0.56
YYXEKD	X	3,269.0	55.1	0.30	2,082.0	-807.3	-4.78
ZPM5AM		3,037.0	-176.9	-0.97	2,866.5	-22.8	-0.14
ZXSTME		3,213.5	-0.4	0.00	2,895.0	5.7	0.03

Summary Statistics

Grand Means

3,213.86 psi

2,889.33 psi

Std Dev Btwn Labs

182.04 psi

169.03 psi

Statistics based on 43 of 46 reporting participants

Summary Statistics in SI Units

Grand Means

22.159 MPa

19.92 MPa

Std Dev Btwn Labs

1.255 MPa

1.17 MPa

Statistics based on 43 of 46 reporting participants

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #630

5BBNZK (X) - Inconsistency in testing between Sample sets. Data for Sample sets L51-L52 are low.

GGMJYR (X) - Inconsistency in testing between Sample sets. Also inconsistency in testing within Sample sets

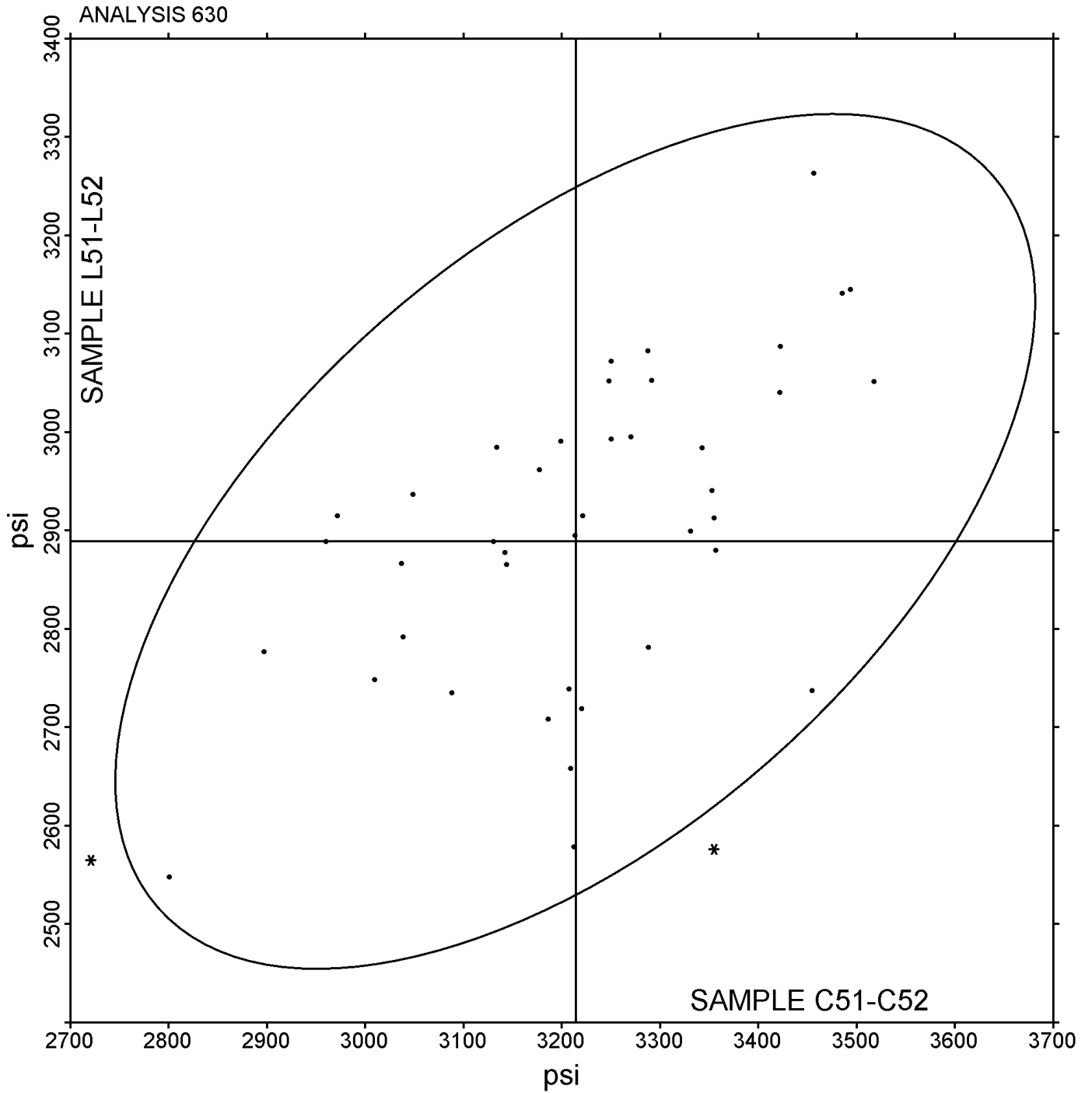
YYXEKD (X) - Inconsistency in testing between Sample sets. Data for Sample sets L51-L52 are low.

Analysis 630

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

Grand Mean Sample C51-C52 = 3,213.86 psi

Grand Mean Sample L51-L52 = 2,889.33 psi



Analysis 631

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

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1BVAJ8		547.0	-10.3	-0.40	535.5	-5.2	-0.21
1URFRM		567.0	9.7	0.38	554.0	13.3	0.55
33UQHR		519.4	-37.9	-1.46	509.0	-31.7	-1.31
3JGW3H		538.5	-18.8	-0.73	534.5	-6.2	-0.26
4FS9Z3	X	564.5	7.2	0.28	626.0	85.3	3.52
4NHFG6		570.1	12.8	0.50	571.0	30.2	1.25
5K3XED	X	657.5	100.2	3.88	573.0	32.3	1.33
5ZKEDH		577.5	20.2	0.78	539.0	-1.7	-0.07
778DPG		578.0	20.7	0.80	539.5	-1.2	-0.05
7JAPNM		586.0	28.7	1.11	584.5	43.8	1.81
9TD4SL		560.5	3.2	0.13	514.0	-26.7	-1.10
AXE6XJ		571.5	14.2	0.55	555.5	14.8	0.61
B1HRL9		581.5	24.2	0.94	550.5	9.8	0.40
D5EDRT		525.5	-31.8	-1.23	524.0	-16.7	-0.69
D86UME		579.0	21.7	0.84	554.5	13.8	0.57
DAKT2Q		574.0	16.7	0.65	534.0	-6.7	-0.28
DS2USG		587.5	30.2	1.17	571.5	30.8	1.27
DWE1A6		592.2	34.9	1.35	585.2	44.4	1.83
E7413C		556.5	-0.8	-0.03	517.5	-23.2	-0.96
FE8DDL		584.5	27.2	1.05	563.5	22.8	0.94
G18LBN		565.0	7.7	0.30	550.0	9.3	0.38
GYQTHV		539.1	-18.2	-0.70	519.9	-20.9	-0.86
HH6H2U		576.0	18.7	0.73	561.5	20.8	0.86
HL7MLD		577.0	19.7	0.76	558.5	17.8	0.73
JLD28M		544.0	-13.3	-0.51	540.5	-0.2	-0.01
JSQWCF		590.5	33.2	1.29	564.0	23.3	0.96
JVRHA4		522.5	-34.8	-1.34	518.5	-22.2	-0.92
K1NQV1		564.5	7.2	0.28	563.0	22.3	0.92
KZXGRP		495.5	-61.8	-2.39	494.0	-46.7	-1.93
L6NGD2		534.5	-22.8	-0.88	516.0	-24.7	-1.02
MJ89EB		529.5	-27.8	-1.07	534.0	-6.7	-0.28
MKLXSZ		577.5	20.2	0.78	560.0	19.3	0.80
N8DSVP		547.5	-9.8	-0.38	513.5	-27.2	-1.12
NKKPQG		553.0	-4.3	-0.16	549.3	8.5	0.35
P29TRK		548.0	-9.3	-0.36	544.0	3.3	0.14

Analysis 631

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

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PJVJ9W		539.5	-17.8	-0.69	516.0	-24.7	-1.02
PYTSZU	*	485.5	-71.8	-2.78	469.0	-71.7	-2.96
Q83W59		574.5	17.2	0.67	553.0	12.3	0.51
SX6APJ		527.0	-30.3	-1.17	537.0	-3.7	-0.15
TCP2QE	*	579.0	21.7	0.84	520.0	-20.7	-0.85
TJ2SL2		520.6	-36.6	-1.42	509.3	-31.5	-1.30
WNJBRK		554.5	-2.8	-0.11	544.5	3.8	0.16
WNVACX		572.4	15.1	0.58	558.7	18.0	0.74
X5KLAU		544.5	-12.8	-0.49	538.5	-2.2	-0.09
Y21FDC		587.5	30.2	1.17	548.0	7.3	0.30
ZU3MRW		574.0	16.7	0.65	573.5	32.8	1.35

Summary Statistics

Grand Means

557.25 percent

540.71 percent

Std Dev Btwn Labs

25.85 percent

24.23 percent

Statistics based on 44 of 46 reporting participants

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #631

4FS9Z3 (X) - Inconsistency in testing between Sample sets. Data for Sample sets L51-L52 are high.

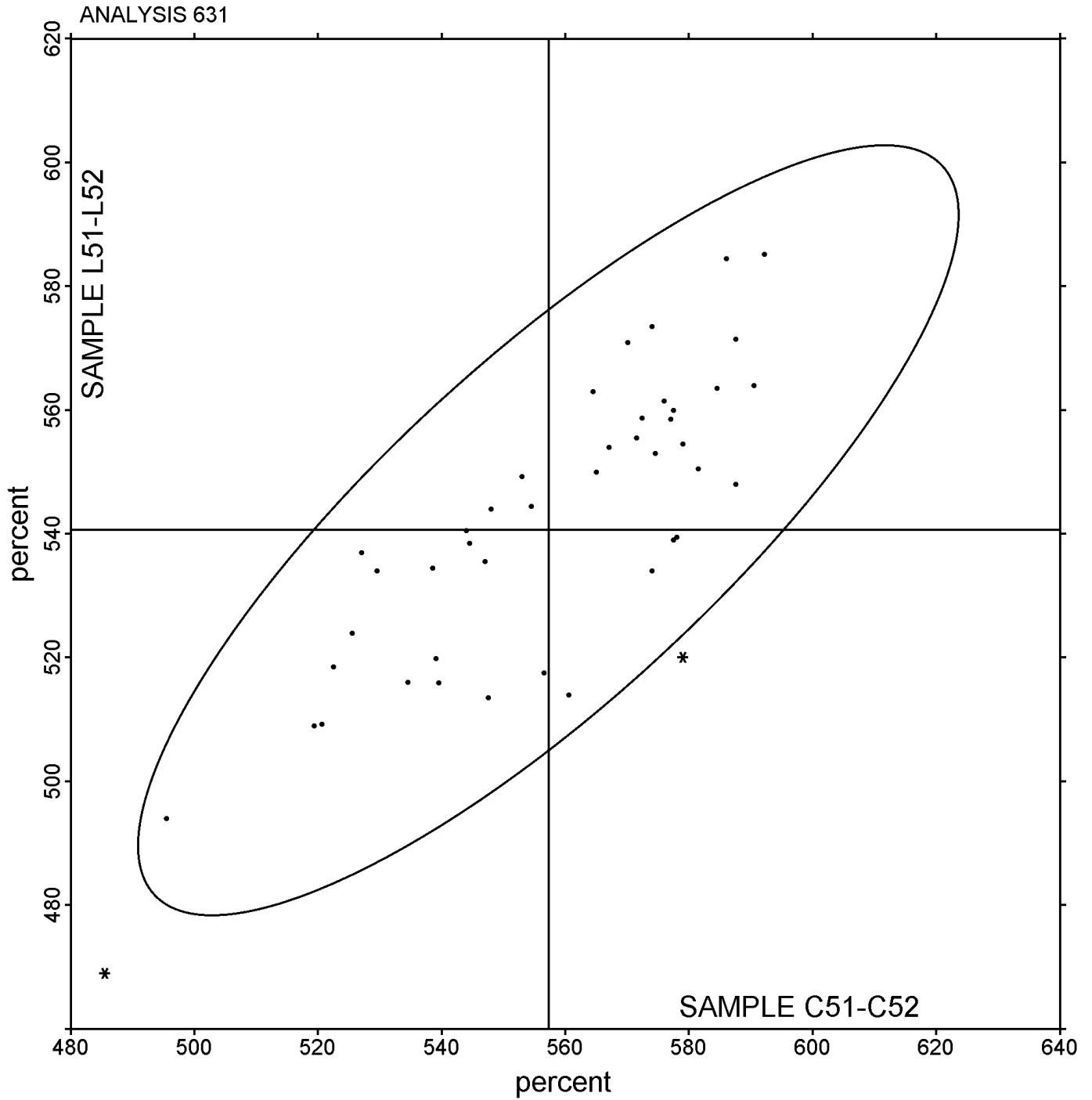
5K3XED (X) - Inconsistency in testing between Sample sets. Data for Sample sets C51-C52 are high.

Analysis 631

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

Grand Mean Sample C51-C52 = 557.25 percent

Grand Mean Sample L51-L52 = 540.71 percent



Analysis 632

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

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1AFXQ3		1,389.5	127.2	1.80	1,216.5	70.2	0.64
1XABH8		1,244.6	-17.7	-0.25	1,153.3	7.0	0.06
3X55CQ		1,183.7	-78.6	-1.11	1,088.0	-58.3	-0.53
3XPZ5A		1,218.5	-43.8	-0.62	1,301.0	154.7	1.40
6JXLUE		1,190.6	-71.7	-1.01	1,136.3	-10.0	-0.09
6MPPZ6		1,320.5	58.2	0.82	1,202.5	56.2	0.51
7RV753	*	1,457.6	195.3	2.76	1,370.6	224.3	2.03
9QE6LP		1,275.5	13.2	0.19	1,195.0	48.7	0.44
AE784U		1,353.5	91.2	1.29	1,217.5	71.2	0.64
AXXRK4		1,216.0	-46.3	-0.65	1,104.0	-42.3	-0.38
B4BC1H		1,254.5	-7.8	-0.11	1,091.0	-55.3	-0.50
CYPPA5	X	1,264.0	1.7	0.02	673.6	-472.7	-4.28
CZNEP1		1,237.5	-24.8	-0.35	1,122.5	-23.8	-0.22
DB8NQE	*	1,247.5	-14.8	-0.21	851.0	-295.3	-2.67
DG4XVS		1,142.2	-120.1	-1.70	1,057.3	-89.0	-0.81
DUBUXQ		1,194.4	-67.9	-0.96	1,035.6	-110.7	-1.00
EDQD81		1,320.5	58.2	0.82	1,123.6	-22.7	-0.21
EEXRH6		1,147.4	-114.9	-1.62	1,065.8	-80.5	-0.73
EFSXKC		1,326.0	63.7	0.90	1,249.0	102.7	0.93
EGZ8A8		1,277.5	15.2	0.21	1,230.0	83.7	0.76
EQEHVD		1,308.2	45.9	0.65	1,048.5	-97.8	-0.89
ET2VT9		1,307.2	44.9	0.63	1,260.4	114.0	1.03
F7BS9Q	*	1,311.5	49.2	0.70	928.0	-218.3	-1.98
FE44VR		1,162.5	-99.8	-1.41	984.5	-161.8	-1.46
GQWLW3		1,255.5	-6.8	-0.10	1,074.5	-71.8	-0.65
H9UDAB		1,360.3	98.0	1.38	1,296.8	150.4	1.36
HH4ED3		1,337.5	75.2	1.06	1,348.0	201.7	1.83
J8TDGR	X	1,421.5	159.2	2.25	806.0	-340.3	-3.08
K18BPP		1,179.5	-82.8	-1.17	1,056.0	-90.3	-0.82
K3KJ4U		1,399.0	136.7	1.93	1,284.0	137.7	1.25
KU3NTN		1,319.5	57.2	0.81	1,153.5	7.2	0.07
L7ZNN7		1,297.0	34.7	0.49	1,017.5	-128.8	-1.17
M4ZALH		1,242.0	-20.3	-0.29	1,237.0	90.7	0.82
P7YMXJ		1,279.2	16.9	0.24	1,187.9	41.6	0.38
S37N5K		1,217.6	-44.7	-0.63	1,073.3	-73.0	-0.66

Analysis 632

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

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
SCLD5E		1,241.8	-20.5	-0.29	1,246.1	99.8	0.90
SRVGZY		1,177.5	-84.8	-1.20	1,187.0	40.7	0.37
TT5ZYY		1,306.5	44.2	0.62	1,236.0	89.7	0.81
TWQB1H		1,193.0	-69.3	-0.98	1,115.5	-30.8	-0.28
UAP8HE		1,183.5	-78.8	-1.11	1,004.5	-141.8	-1.28
UK6VCS		1,259.5	-2.8	-0.04	1,163.0	16.7	0.15
WTK8Z9		1,287.5	25.2	0.36	1,210.0	63.7	0.58
X9KAUT		1,266.0	3.7	0.05	1,260.0	113.7	1.03
XEP28R		1,231.5	-30.8	-0.44	1,095.0	-51.3	-0.46
Z9G3BG		1,224.0	-38.3	-0.54	1,056.5	-89.8	-0.81
ZFSZGL		1,196.5	-65.8	-0.93	1,103.5	-42.8	-0.39

Summary Statistics

Grand Means

1,262.30 psi

1,146.30 psi

Std Dev Btwn Labs

70.75 psi

110.51 psi

Statistics based on 44 of 46 reporting participants

Summary Statistics in SI Units

Grand Means

8.7032 MPa

7.90 MPa

Std Dev Btwn Labs

0.4878 MPa

0.76 MPa

Statistics based on 44 of 46 reporting participants

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #632

CYPPA5 (X) - Data for Sample sets L51-L52 are low.

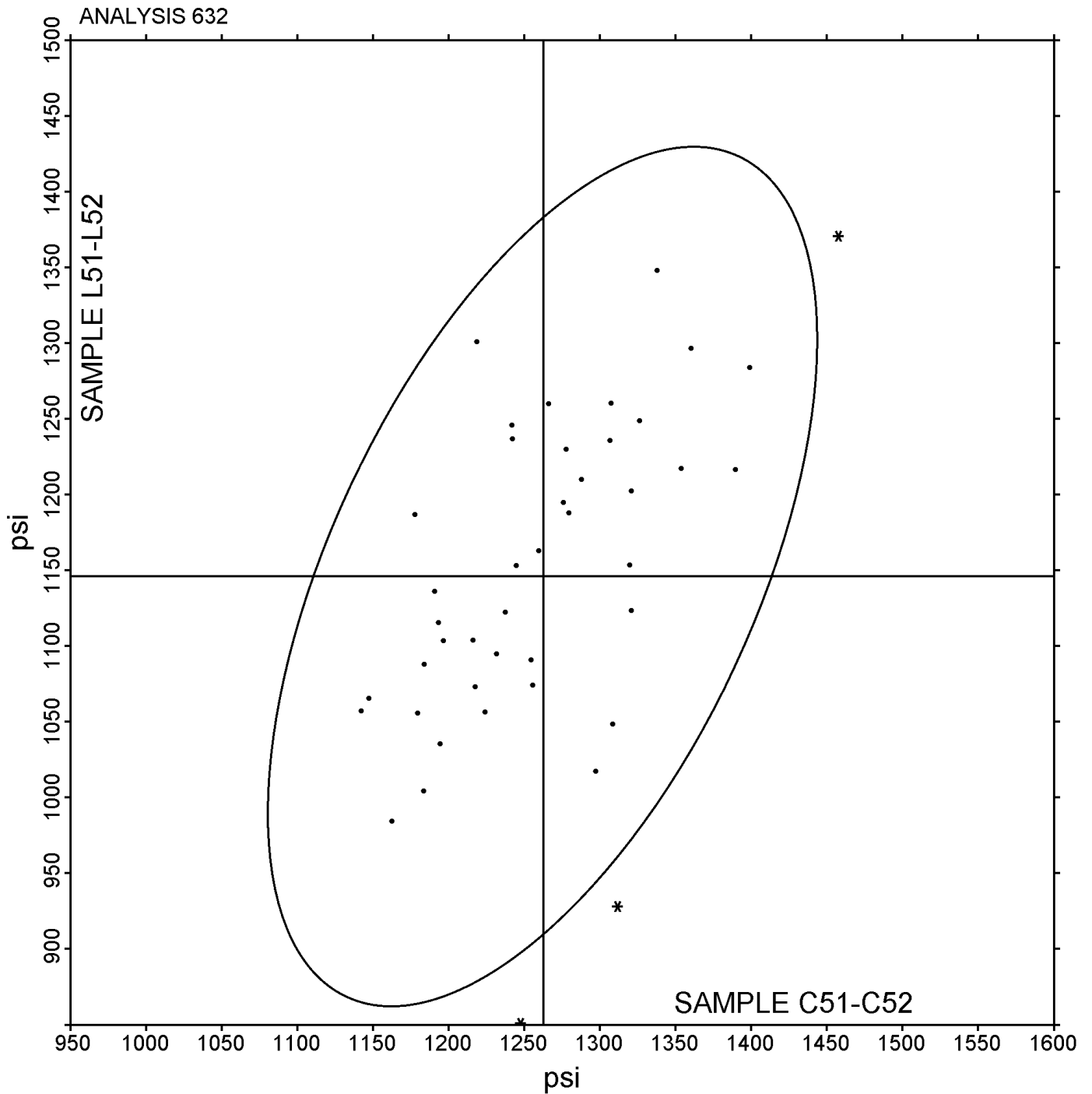
J8TDGR (X) - Data for Sample sets L51-L52 are low.

Analysis 632

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

Grand Mean Sample C51-C52 = 1,262.30 psi

Grand Mean Sample L51-L52 = 1,146.30 psi



Analysis 633

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

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2U4PFT		297.5	29.8	1.88	286.0	40.1	1.89
2VBKGR		269.2	1.5	0.09	237.5	-8.4	-0.39
3PTNME		249.5	-18.2	-1.15	237.5	-8.4	-0.39
3XPY78		259.0	-8.7	-0.55	268.0	22.1	1.04
4MMWF7	*	261.5	-6.2	-0.39	294.0	48.1	2.27
5K1GT2		281.5	13.8	0.87	244.5	-1.4	-0.06
5ZNB2G		283.0	15.3	0.96	266.5	20.6	0.97
6PUMCY		261.0	-6.7	-0.42	269.0	23.1	1.09
76Y3U4		260.0	-7.7	-0.49	220.5	-25.4	-1.20
7RQAN9	X	309.7	41.9	2.64	180.6	-65.3	-3.08
82ETFN	X	268.5	0.8	0.05	181.5	-64.4	-3.03
87A2ZY		261.5	-6.2	-0.39	243.0	-2.9	-0.13
8J4FYT		304.6	36.9	2.32	275.6	29.7	1.40
9KSQF1		273.5	5.8	0.36	226.5	-19.4	-0.91
A44AWK		282.0	14.3	0.90	269.0	23.1	1.09
A8LTHX		272.5	4.8	0.30	258.5	12.6	0.60
ANF7S2		243.5	-24.2	-1.53	222.0	-23.9	-1.12
AQDMEZ		293.6	25.9	1.63	249.3	3.4	0.16
B5K9XG		291.9	24.2	1.52	277.9	32.0	1.51
BCJL9R		277.9	10.2	0.64	259.6	13.8	0.65
DKK32U		263.6	-4.1	-0.26	251.4	5.5	0.26
EAGXBR	*	263.0	-4.7	-0.30	198.5	-47.4	-2.23
FMXZGT		268.0	0.3	0.02	248.8	2.9	0.14
HAVUPU		265.0	-2.7	-0.17	248.5	2.6	0.12
J8XUR1		296.0	28.3	1.78	262.5	16.6	0.78
JH9Z7Q		282.2	14.5	0.91	240.9	-4.9	-0.23
KUQTDN		264.0	-3.7	-0.23	239.0	-6.9	-0.32
KZJ7GG	X	291.5	23.8	1.50	168.0	-77.9	-3.67
L22P59		259.0	-8.7	-0.55	241.0	-4.9	-0.23
L8VQKZ		243.5	-24.3	-1.53	226.6	-19.3	-0.91
NV75R7		264.5	-3.2	-0.20	255.5	9.6	0.45
P5D44J		252.5	-15.2	-0.96	220.0	-25.9	-1.22
P6P98M		260.7	-7.0	-0.44	251.7	5.8	0.27
PVTJWL		267.0	-0.7	-0.05	249.3	3.4	0.16
QKQLNC		281.8	14.0	0.88	280.8	34.9	1.64

Analysis 633

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

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
SPRG9Z		254.8	-12.9	-0.82	235.5	-10.4	-0.49
UGG8G9		255.3	-12.5	-0.79	224.8	-21.0	-0.99
UUHDC7		269.0	1.3	0.08	233.5	-12.4	-0.58
VH2YQ8		240.8	-27.0	-1.70	224.8	-21.0	-0.99
VSKF9W		263.5	-4.2	-0.27	233.5	-12.4	-0.58
VVBGNH		260.0	-7.7	-0.49	240.0	-5.9	-0.28
VVJ3F9		271.9	4.2	0.27	251.6	5.8	0.27
WDH84U	X	336.5	68.8	4.34	333.0	87.1	4.11
WPZWW7		258.9	-8.8	-0.56	227.0	-18.9	-0.89
Y5A6C7		233.5	-34.2	-2.16	208.0	-37.9	-1.78
YXREQU		283.0	15.3	0.96	228.0	-17.9	-0.84

Summary Statistics

Grand Means

267.73 psi

245.86 psi

Std Dev Btwn Labs

15.86 psi

21.21 psi

Statistics based on 42 of 46 reporting participants

Summary Statistics in SI Units

Grand Means

1.8459 MPa

1.70 MPa

Std Dev Btwn Labs

0.1094 MPa

0.15 MPa

Statistics based on 42 of 46 reporting participants

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #633

7RQAN9 (X) - Data for Sample sets L51-L52 are low.

82ETFN (X) - Data for Sample sets L51-L52 are low.

KZJ7GG (X) - Data for Sample sets L51-L52 are low.

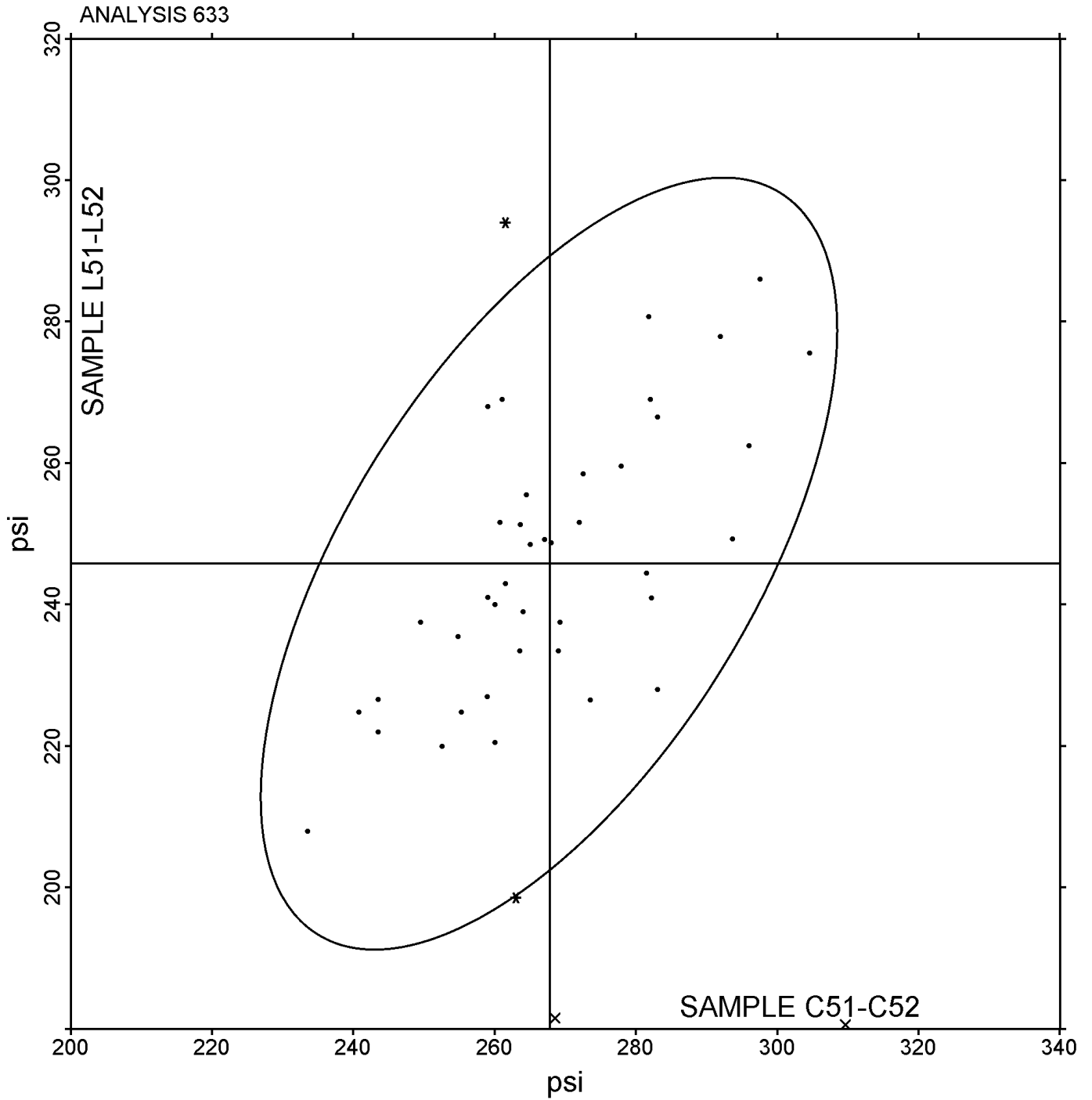
WDH84U (X) - Data for all Samples are high.

Analysis 633

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

Grand Mean Sample C51-C52 = 267.73 psi

Grand Mean Sample L51-L52 = 245.86 psi



Rubber Interlaboratory Testing Program

Analysis 660

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

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1SJM4F		47.15	-0.43	-0.77	73.47	-0.06	-0.07	MR
3MKYEL		47.37	-0.21	-0.38	73.62	0.09	0.11	MR
4G384X		47.20	-0.38	-0.68	72.55	-0.97	-1.21	MR
5SZMPD		47.90	0.32	0.57	73.33	-0.19	-0.24	MR
5X4A5A		47.75	0.17	0.30	73.90	0.38	0.47	MR
6QX19Z		47.40	-0.18	-0.32	74.30	0.78	0.96	TV
6RE7MJ		47.17	-0.41	-0.74	73.25	-0.27	-0.34	MR
6SQK6F		47.72	0.14	0.24	73.43	-0.09	-0.11	MR
84QZ2V		47.83	0.25	0.45	73.98	0.46	0.57	MR
A3FRA2		46.67	-0.91	-1.63	73.15	-0.37	-0.47	MR
A3KGS9		47.30	-0.28	-0.50	73.52	-0.01	-0.01	MR
A4G1QU		47.80	0.22	0.39	74.53	1.01	1.25	TV
ARZFS1		46.83	-0.75	-1.34	72.48	-1.04	-1.29	MR
BAS7B6		48.75	1.17	2.09	75.25	1.73	2.15	MR
BUHT6R	X	45.08	-2.50	-4.47	71.60	-1.93	-2.40	TV
C8SFM2		47.47	-0.11	-0.20	73.10	-0.42	-0.53	MR
D5EEM5		47.73	0.15	0.27	73.75	0.23	0.28	MM
DUTRLG		47.67	0.09	0.15	74.73	1.21	1.50	MR
EJ5YAR	M	48.17	0.59	1.05	No data reported for this sample			MP
EKV6E3		46.75	-0.83	-1.48	71.98	-1.54	-1.92	MR
F1BEBB		47.32	-0.26	-0.47	72.90	-0.62	-0.78	MR
JABKHQ		48.58	1.00	1.79	74.52	0.99	1.23	MM
JE8D9Z		47.88	0.30	0.54	73.20	-0.32	-0.40	MR
KGZPYG		46.83	-0.75	-1.34	72.48	-1.04	-1.29	MR
KVERCN	X	49.90	2.32	4.14	76.72	3.19	3.97	MM
L6DW6F	*	48.47	0.89	1.58	75.85	2.33	2.89	MR
LFJ6RY		47.70	0.12	0.21	73.12	-0.41	-0.51	MR
MDTYXN		46.57	-1.02	-1.81	72.23	-1.30	-1.61	MR
MW9YAW		48.40	0.82	1.46	73.80	0.28	0.34	XX
NUC4NJ	X	54.12	6.54	11.67	83.18	9.66	12.01	MR
NUDVX2		47.68	0.10	0.18	73.03	-0.49	-0.61	MR
NZ3PAG		46.78	-0.80	-1.43	72.95	-0.57	-0.71	MR
PE7XME	X	50.35	2.77	4.94	75.36	1.83	2.28	MR
PN6CVN		48.02	0.44	0.78	74.12	0.59	0.74	MR
PW4S74		47.23	-0.35	-0.62	73.43	-0.09	-0.11	MR

Analysis 660

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

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
QFV7Z8		47.30	-0.28	-0.50	73.23	-0.29	-0.36	MR
QX1JYC		48.58	1.00	1.79	74.47	0.94	1.17	MR
R289QZ		48.43	0.85	1.52	73.88	0.36	0.45	MM
RBKRTD		48.43	0.85	1.52	74.05	0.53	0.65	MR
TYR147		47.55	-0.03	-0.06	73.83	0.31	0.38	MP
UHK65G		46.98	-0.60	-1.07	72.93	-0.59	-0.73	MR
USLRYB		47.52	-0.06	-0.12	72.97	-0.56	-0.69	MR
UT1L3V		47.62	0.04	0.06	73.63	0.11	0.14	MR
V6DQF4		48.20	0.62	1.10	74.43	0.91	1.13	MZ
V7VD36		48.03	0.45	0.80	74.27	0.74	0.93	TV
W77WEZ		47.75	0.17	0.30	73.53	0.01	0.01	MR
YTTN86		46.97	-0.61	-1.10	72.38	-1.14	-1.42	MR
Z1U7C2		47.90	0.32	0.57	73.72	0.19	0.24	MR
ZE8HK9		47.33	-0.25	-0.45	72.15	-1.37	-1.71	MM
ZLS73B		47.01	-0.57	-1.02	73.08	-0.44	-0.55	MP
ZSG6U1		47.22	-0.36	-0.65	73.58	0.06	0.07	MR

Summary Statistics

Grand Means

47.581 ML 1 + 4

73.524 ML 1 + 4

Std Dev Btwn Labs

0.560 ML 1 + 4

0.804 ML 1 + 4

Statistics based on 46 of 51 reporting participants

Samples U51-U52: SBR & U53-U54: NBR

Comments on assigned Data Flags for Test #660

BUHT6R (X) - Inconsistency in testing between Sample sets. Data for Sample sets U51-U52 are low.

EJ5YAR (M) - Lab did not report data for Sample sets U53-U54.

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

NUC4NJ (X) - Data for all Samples are high.

PE7XME (X) - Inconsistency in testing between Sample sets. Data for Sample sets U51-U52 are high.

Analysis 660

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

Instrument Code Listing**660 Mooney Viscosity: 4-minute readings (ML 1 + 4)****Instruments (as reported by the labs):**

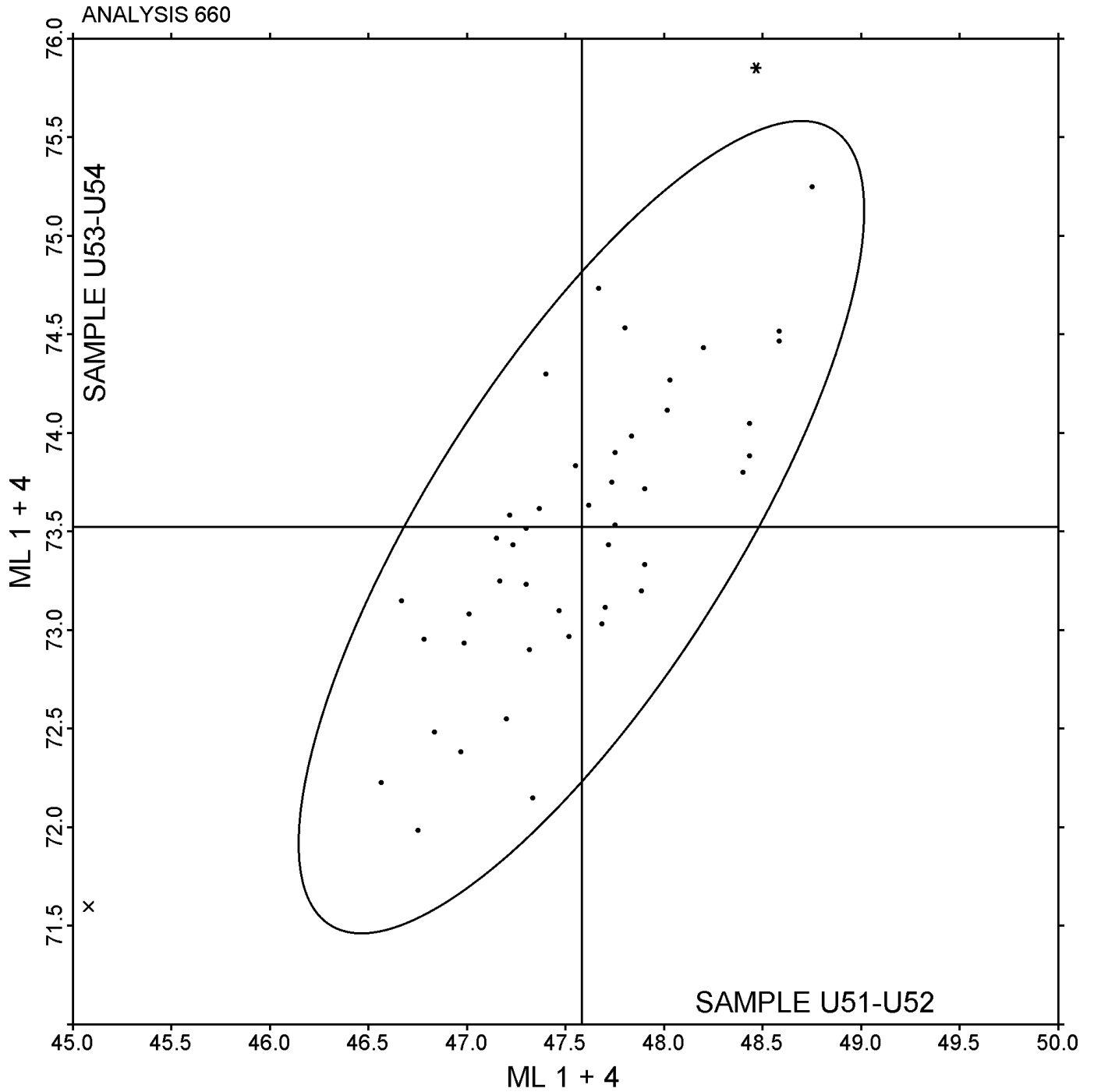
- | | |
|--|--|
| (ML) Alpha Technologies/Monsanto model not specified | (MM) Alpha Technologies Model 1xxx or OSM |
| (MP) Monsanto Compact Mooney Viscometer | (MR) Alpha Technologies Model MV2000/MV2000E |
| (MZ) Rebuilt Monsanto Mooney Viscometer | (SF) Scott STI (any model) |
| (TV) Tech Pro Visc 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 U51-U52 = 47.581 ML 1 + 4

Grand Mean Sample U53-U54 = 73.524 ML 1 + 4



Analysis 662

Mooney Stress Relaxation: t80 (seconds)

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
5MJ9GL	X	312.77	301.28	271.79	315.70	302.11	117.61	MR
CGAA5K		11.85	0.37	0.33	14.48	0.89	0.35	MR
DL3MPD		10.43	-1.05	-0.95	8.00	-5.58	-2.17	MR
FW8PUS	X	665.00	653.52	589.55	809.00	795.41	309.65	MR
FY5UNB		11.27	-0.21	-0.19	14.35	0.76	0.30	MR
GABLST	X	660.50	649.02	585.49	883.70	870.11	338.73	MR
HN7G4A		11.40	-0.08	-0.08	13.30	-0.29	-0.11	MR
J6ZPVF		13.83	2.35	2.12	16.05	2.46	0.96	MR
KZFBPK		12.70	1.22	1.10	14.50	0.91	0.36	MR
MUKBEG		9.68	-1.80	-1.62	16.82	3.23	1.26	TV
NSNSU6	X	311.33	299.85	270.50	314.00	300.41	116.95	MR
NU7VCE		12.00	0.52	0.47	14.50	0.91	0.36	MR
PYP84W		12.17	0.68	0.61	14.28	0.70	0.27	MR
S2BMZ7		11.50	0.02	0.01	13.73	0.15	0.06	MR
TZQ85V		11.83	0.35	0.31	14.00	0.41	0.16	MR
UM15DR		11.65	0.16	0.15	13.98	0.39	0.15	MR
W2U5Y6		10.70	-0.78	-0.71	14.40	0.81	0.32	MR
XZDAJA		9.77	-1.72	-1.55	7.80	-5.79	-2.25	MR

Summary Statistics	
Grand Means	
11.484 seconds	13.585 seconds
Std Dev Btwn Labs	
1.108 seconds	2.569 seconds
Statistics based on 14 of 18 reporting participants	

Samples U51-U52: SBR & U53-U54: NBR

Comments on assigned Data Flags for Test #662

5MJ9GL (X) - Extreme data for both Sample sets. Lab appears to have included preheat time.

FW8PUS (X) - Extreme data for both Sample sets. Lab indicated reporting in minutes, but data appear to be in seconds.

GABLST (X) - Extreme data for both Sample sets. Lab previously reported in minutes, but data appear to be in seconds.

NSNSU6 (X) - Extreme data for both Sample sets. Lab appears to have included preheat time.

Analysis 662

Mooney Stress Relaxation: t80 (seconds)

Instrument Code Listing**662 Mooney Stress Relaxation: t80 (seconds)****Instruments (as reported by the labs):**

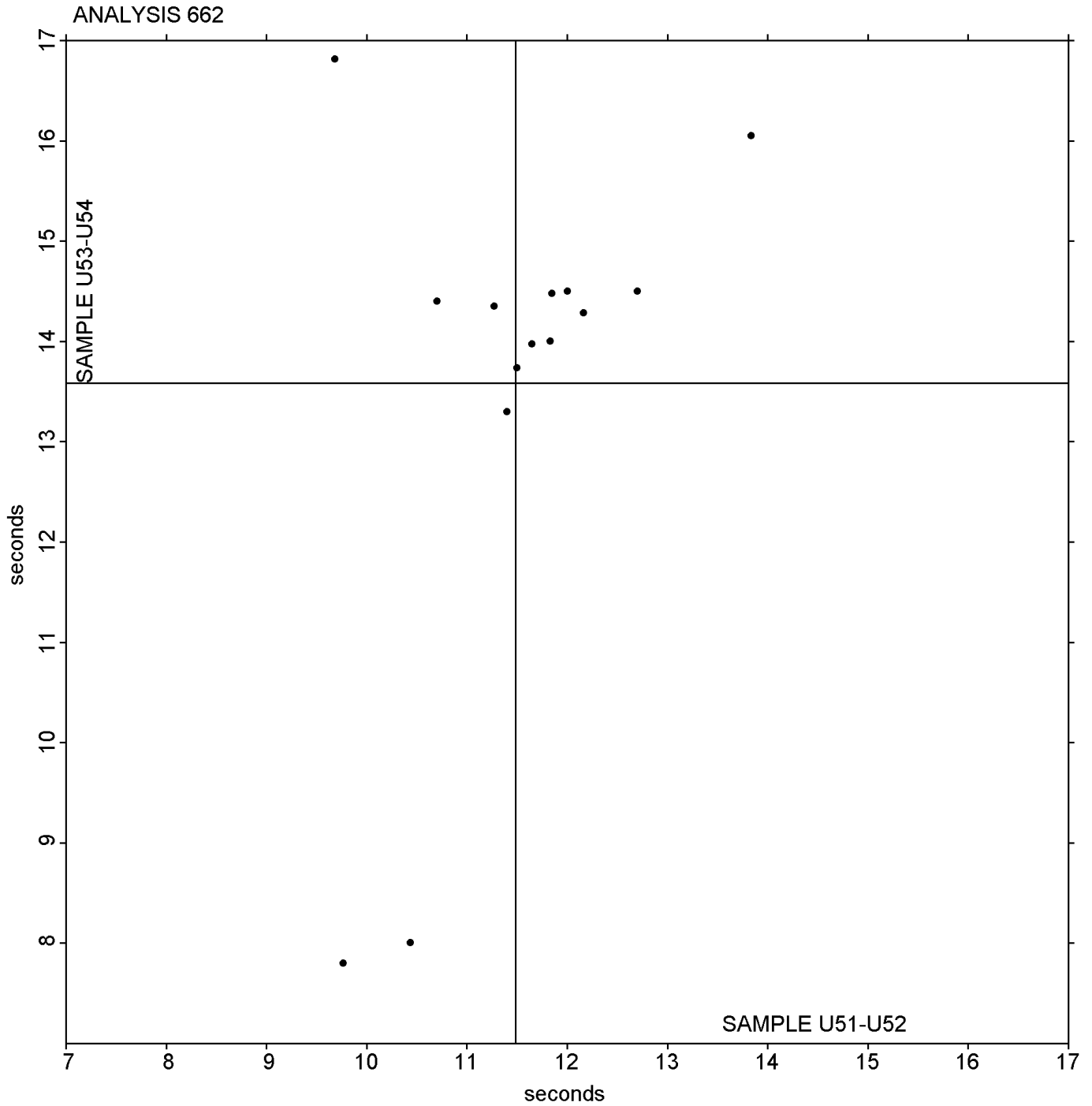
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|--|--|
| (ML) Alpha Technologies/Monsanto model not specified | (MM) Alpha Technologies Model 1xxx or OSM |
| (MP) Monsanto Compact Mooney Viscometer | (MR) Alpha Technologies Model MV2000/MV2000E |
| (MZ) Rebuilt Monsanto Mooney Viscometer | (SF) 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 662

Mooney Stress Relaxation: t80 (seconds)

Grand Mean Sample U51-U52 = 11.484 seconds

Grand Mean Sample U53-U54 = 13.585 seconds



Analysis 663

Mooney Stress Relaxation: X30 (percent)

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4NT2BT		86.51	1.76	0.41	84.60	1.17	0.23	MR
6L1SJH		86.27	1.52	0.35	84.94	1.51	0.29	MR
9SXF6F	X	13.93	-70.82	-16.31	15.46	-67.96	-13.09	MR
9TU6FQ		87.60	2.85	0.66	88.27	4.85	0.93	MR
FJJHYV	X	13.77	-70.98	-16.34	15.28	-68.14	-13.12	MR
FULXRN	*	71.35	-13.40	-3.09	68.38	-15.04	-2.90	TV
H5QHU8	X	15.05	-69.70	-16.05	16.03	-67.39	-12.98	MR
K7H1C1		86.24	1.49	0.34	84.89	1.46	0.28	MR
NULC43		87.09	2.34	0.54	88.20	4.78	0.92	MR
PWBWXX		86.25	1.50	0.35	85.00	1.58	0.30	MR
QA5SDA	X	13.60	-71.15	-16.38	15.00	-68.42	-13.18	MR
QFJA8C		86.14	1.39	0.32	84.69	1.27	0.24	MR
QJ2YFE		86.11	1.36	0.31	84.66	1.23	0.24	MR
QXWA8D		85.59	0.84	0.19	84.57	1.15	0.22	MR
S7N5FP		85.67	0.92	0.21	84.50	1.08	0.21	MR
SWH76X		86.13	1.38	0.32	84.68	1.26	0.24	MR
VE2442		86.46	1.71	0.39	84.88	1.46	0.28	MR
Y7QUB7		79.09	-5.66	-1.30	75.65	-7.77	-1.50	MR

Summary Statistics

Grand Means

84.749 percent

83.421 percent

Std Dev Btwn Labs

4.343 percent

5.193 percent

Statistics based on 14 of 18 reporting participants

Samples U51-U52: SBR & U53-U54: NBR

Comments on assigned Data Flags for Test #663

9SXF6F (X) - Extreme data for both Sample sets. Lab appears to have reported % Retained Torque, data must be reported in % Decayed Torque.

FJJHYV (X) - Extreme data for both Sample sets. Lab appears to have reported % Retained Torque, data must be reported in % Decayed Torque.

H5QHU8 (X) - Extreme data for both Sample sets. Lab appears to have reported % Retained Torque, data must be reported in % Decayed Torque.

QA5SDA (X) - Extreme data for both Sample sets. Lab appears to have reported % Retained Torque, data must be reported in % Decayed Torque.

Analysis 663

Mooney Stress Relaxation: X30 (percent)

Instrument Code Listing**663 Mooney Stress Relaxation: X30 (percent)****Instruments (as reported by the labs):**

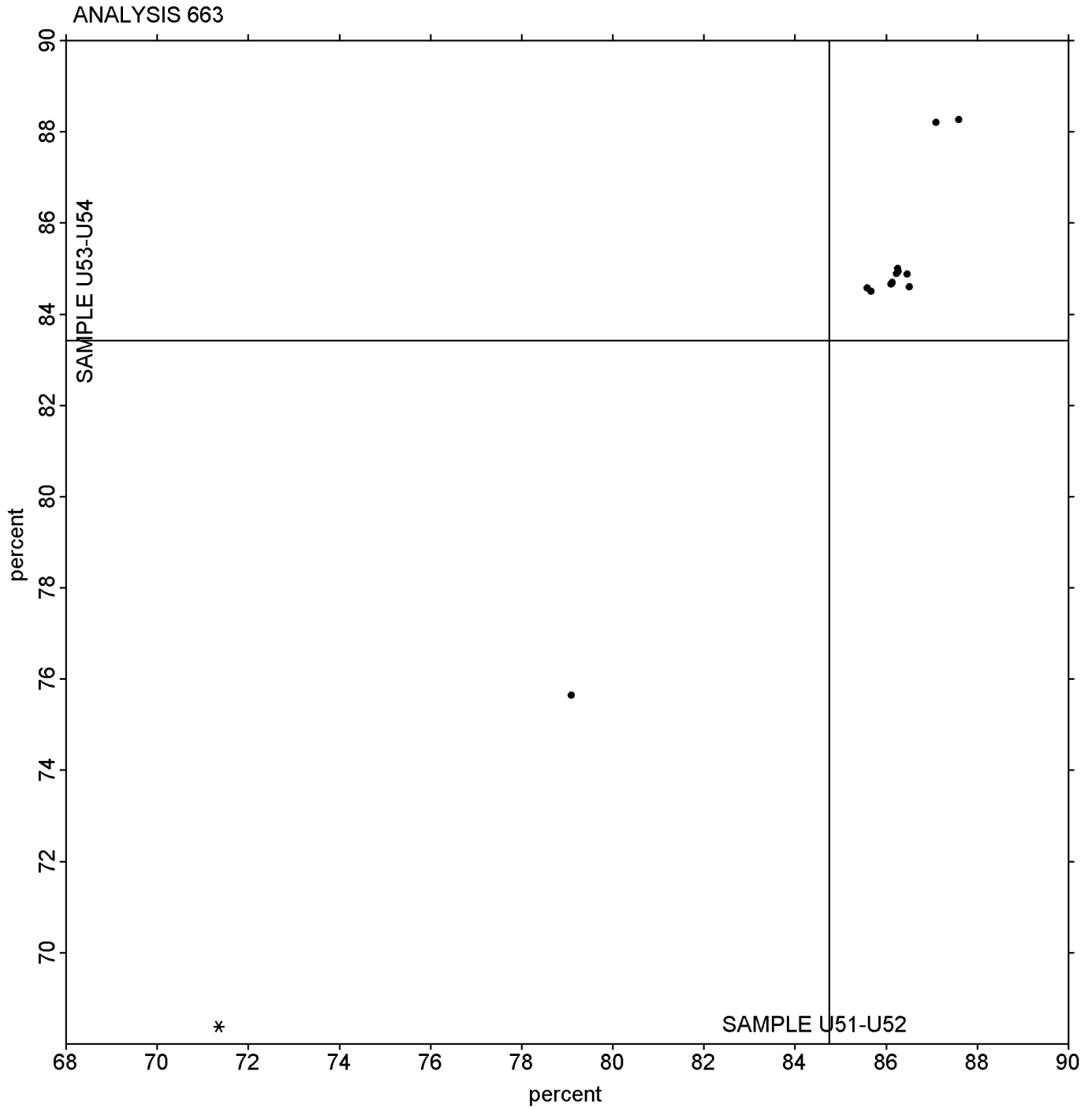
- | | |
|--|--|
| (ML) Alpha Technologies/Monsanto model not specified | (MM) Alpha Technologies Model 1xxx or OSM |
| (MP) Monsanto Compact Mooney Viscometer | (MR) Alpha Technologies Model MV2000/MV2000E |
| (MZ) Rebuilt Monsanto Mooney Viscometer | (SF) Scott STI (any model) |
| (TV) Tech Pro Visc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

Analysis 663

Mooney Stress Relaxation: X30 (percent)

Grand Mean Sample U51-U52 = 84.749 percent

Grand Mean Sample U53-U54 = 83.421 percent



Analysis 664

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

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
19EBQF		706.8	1.8	0.03	1,208.3	7.0	0.03	MR
22TUFD		689.0	-16.0	-0.22	1,189.3	-12.0	-0.06	MR
41T5R6		655.7	-49.3	-0.68	849.8	-351.5	-1.68	MR
455TV1	*	936.9	231.9	3.19	1,778.0	576.6	2.76	MR
4W7REM		702.8	-2.2	-0.03	1,188.6	-12.7	-0.06	MR
84E3ZB		707.5	2.5	0.03	1,199.1	-2.2	-0.01	MR
8H8ZJE		691.3	-13.7	-0.19	1,188.5	-12.8	-0.06	MR
AK9Z5Q		702.5	-2.5	-0.03	1,212.8	11.5	0.05	MR
D1BRQH	*	616.2	-88.8	-1.22	1,327.0	125.7	0.60	TV
D4CVCQ		691.6	-13.4	-0.18	1,188.9	-12.4	-0.06	MR
FF9X98		739.9	34.9	0.48	1,260.7	59.4	0.28	MR
LGWQR8		688.3	-16.7	-0.23	1,191.1	-10.2	-0.05	MR
SGHMA4		730.3	25.3	0.35	1,206.7	5.3	0.03	MR
UK4RQ6		695.4	-9.6	-0.13	1,197.8	-3.6	-0.02	MR
V4ZDFW		620.5	-84.5	-1.16	833.2	-368.2	-1.76	MR

Summary Statistics

Grand Means

704.98 M-s

1,201.32 M-s

Std Dev Btwn Labs

72.76 M-s

209.06 M-s

Statistics based on 15 of 15 reporting participants

Samples U51-U52: SBR & U53-U54: NBR

Instrument Code Listing

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

Instruments (as reported by the labs):

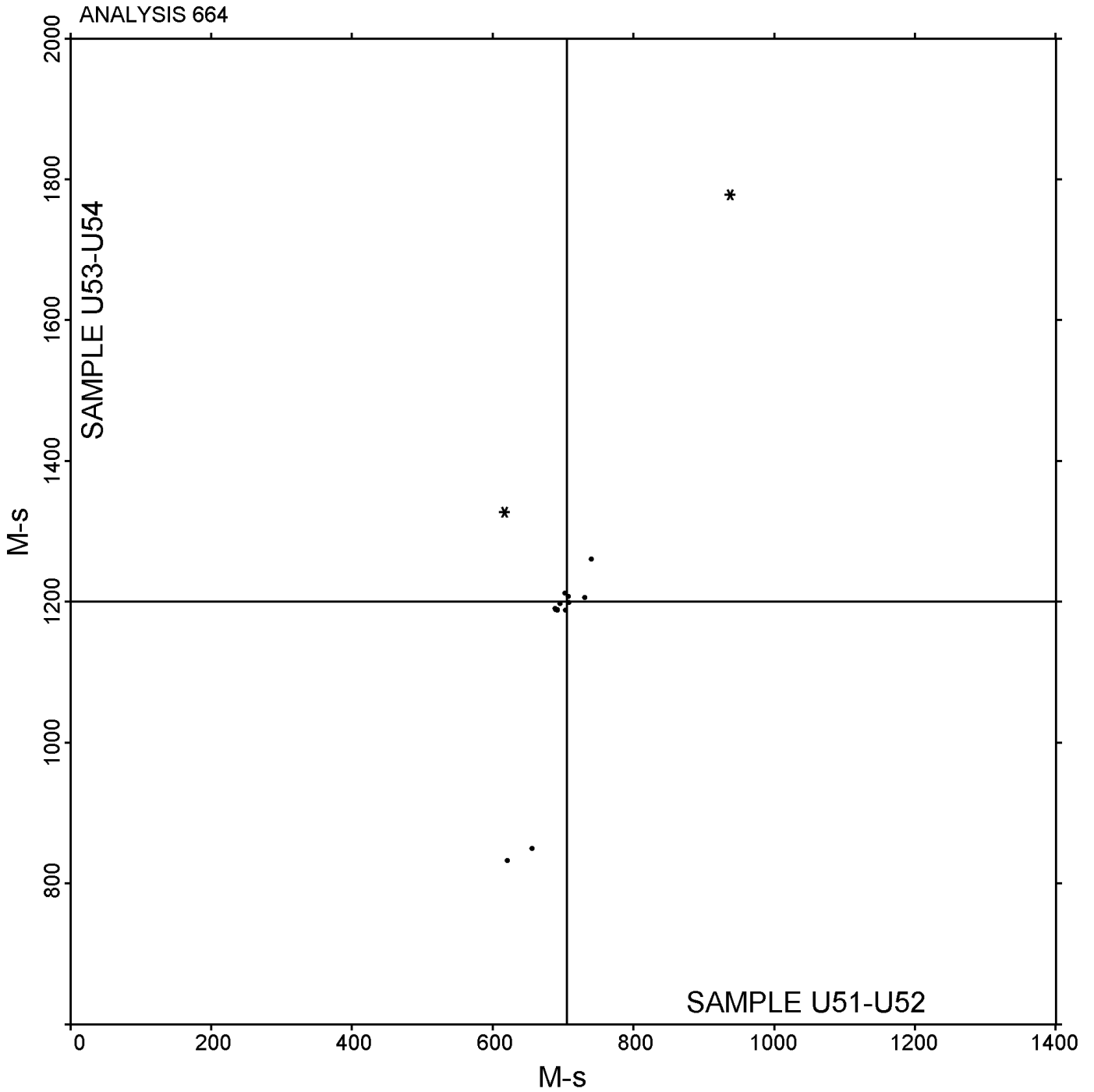
(ML) Alpha Technologies/Monsanto model not specified	(MM) Alpha Technologies Model 1xxx or OSM
(MP) Monsanto Compact Mooney Viscometer	(MR) Alpha Technologies Model MV2000/MV2000E
(MZ) Rebuilt Mooney Viscometer	(SF) Scott STI (any model)
(TV) Tech Pro Visc Tech (any model)	(XA) Special In-House Instrument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

Analysis 664

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

Grand Mean Sample U51-U52 = 704.98 M-s

Grand Mean Sample U53-U54 = 1,201.32 M-s



Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Y51-Y52			Sample Y53-Y54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1ADB7W		1.422	0.037	0.35	2.622	0.132	0.76
3PCC4N		1.425	0.041	0.38	2.508	0.019	0.11
4H4BGJ		1.527	0.142	1.34	2.692	0.202	1.16
856S7P		1.535	0.151	1.41	2.647	0.157	0.90
AERZ8J		1.403	0.019	0.18	2.492	0.002	0.01
C661MA		1.223	-0.161	-1.51	2.187	-0.303	-1.75
CM996Q		1.300	-0.084	-0.79	2.400	-0.090	-0.52
GGP7CB		1.267	-0.118	-1.11	2.265	-0.225	-1.29
N5T8VU		1.552	0.167	1.57	2.660	0.170	0.98
P6RV8B		1.547	0.162	1.52	2.723	0.234	1.35
V61PWN		1.293	-0.091	-0.85	2.502	0.012	0.07
VD7M19		1.330	-0.054	-0.51	2.441	-0.048	-0.28
XYGJ37	*	1.387	0.002	0.02	2.778	0.289	1.66
XZ482X		1.418	0.034	0.32	2.395	-0.095	-0.55
YZVPH6		1.303	-0.081	-0.76	2.355	-0.135	-0.78
ZJEABN		1.275	-0.109	-1.03	2.310	-0.180	-1.03
ZUSFAQ		1.328	-0.056	-0.53	2.348	-0.141	-0.81

Summary Statistics

Grand Means

1.3844 minutes

2.4897 minutes

Std Dev Btwn Labs

0.1065 minutes

0.1736 minutes

Statistics based on 17 of 17 reporting participants

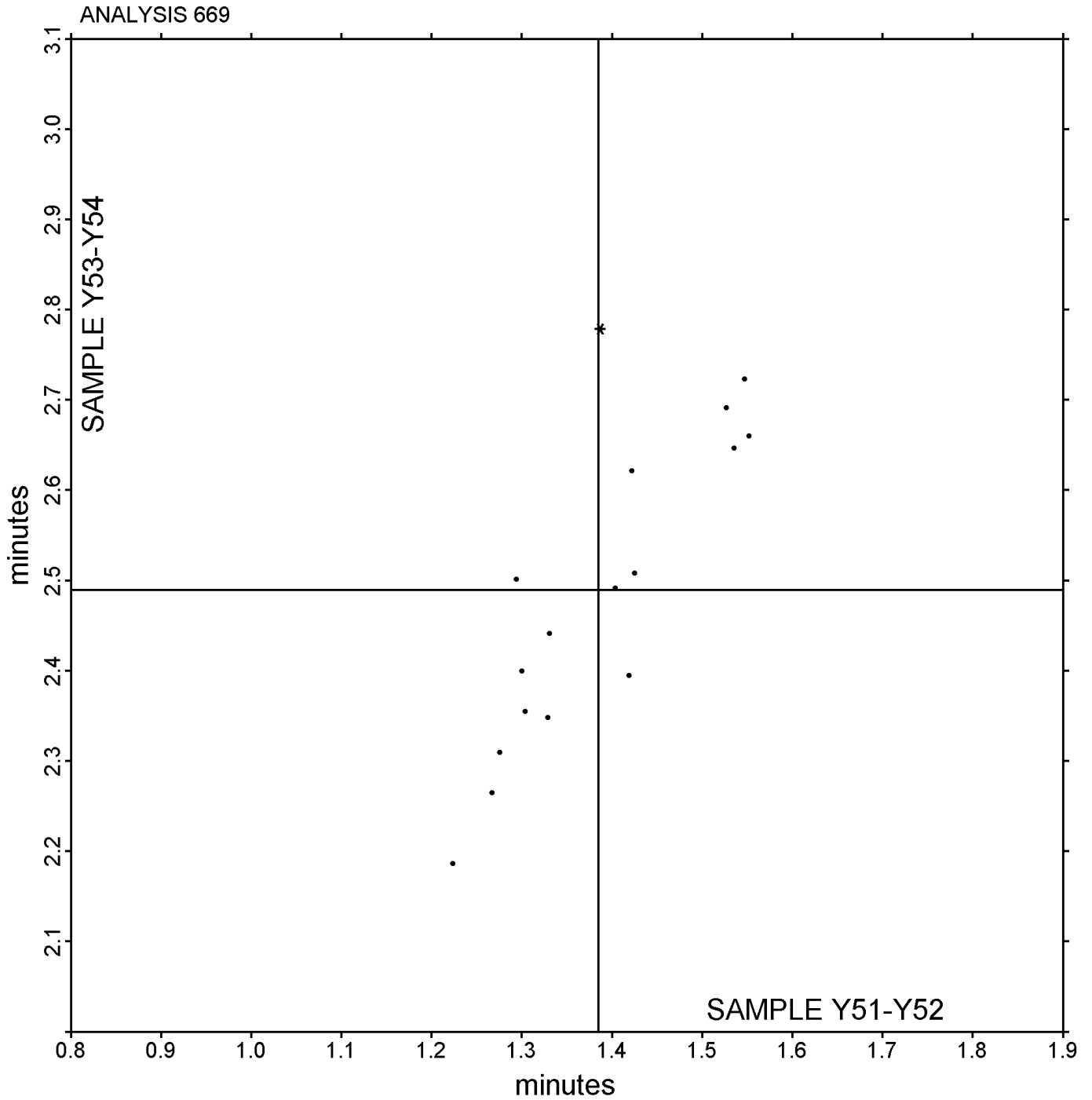
Samples Y51-Y52: EPDM compound #1 & Y53-Y54: EPDM compound #2

Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample Y51-Y52 = 1.3844 minutes

Grand Mean Sample Y53-Y54 = 2.4897 minutes



Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Y51-Y52			Sample Y53-Y54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2H4R6V		1.237	0.192	1.94	2.403	0.385	1.84
2TYPMB		1.042	-0.003	-0.03	2.058	0.040	0.19
3ZAP5P		1.043	-0.001	-0.01	2.112	0.094	0.45
4CERBH		1.107	0.062	0.63	2.030	0.012	0.06
4MYSPS		1.083	0.039	0.39	2.222	0.204	0.97
5H44XA		0.938	-0.106	-1.08	2.050	0.032	0.15
6QKHK6		1.100	0.055	0.56	2.040	0.022	0.11
6W1RE5		1.040	-0.005	-0.05	1.880	-0.138	-0.66
73HV28		1.093	0.049	0.49	2.123	0.105	0.50
8196EL		1.128	0.084	0.85	2.078	0.060	0.29
ADRPXF		0.902	-0.143	-1.45	1.700	-0.318	-1.51
B64C9E		0.893	-0.151	-1.53	1.692	-0.326	-1.55
EXSJU6		0.957	-0.088	-0.89	1.777	-0.241	-1.15
J1FRVF		1.170	0.125	1.27	2.420	0.402	1.92
JH9CP1		0.983	-0.061	-0.62	1.803	-0.215	-1.02
JKCCDH		1.210	0.165	1.67	2.295	0.277	1.32
JRV748		1.037	-0.008	-0.08	1.930	-0.088	-0.42
LTJB68		1.050	0.005	0.05	1.858	-0.160	-0.76
LX5S4P		1.128	0.084	0.85	2.103	0.085	0.41
M3NN7U		1.195	0.150	1.52	2.183	0.165	0.79
MLNHX8	*	1.048	0.004	0.04	2.402	0.384	1.83
PHV3K7		0.880	-0.165	-1.66	1.780	-0.238	-1.13
QCSUGZ		0.963	-0.081	-0.82	1.735	-0.283	-1.35
SY3KMB		0.953	-0.091	-0.92	1.918	-0.100	-0.47
VB12C9		0.987	-0.058	-0.58	1.868	-0.150	-0.71
XY95JL		0.900	-0.145	-1.46	1.917	-0.101	-0.48
Z2CX1V		1.088	0.044	0.44	2.013	-0.005	-0.02
ZVF1N6		1.095	0.050	0.51	2.110	0.092	0.44

Summary Statistics

Grand Means

1.0447 minutes

2.0179 minutes

Std Dev Btwn Labs

0.0989 minutes

0.2099 minutes

Statistics based on 28 of 28 reporting participants

Samples Y51-Y52: EPDM compound #1 & Y53-Y54: EPDM compound #2

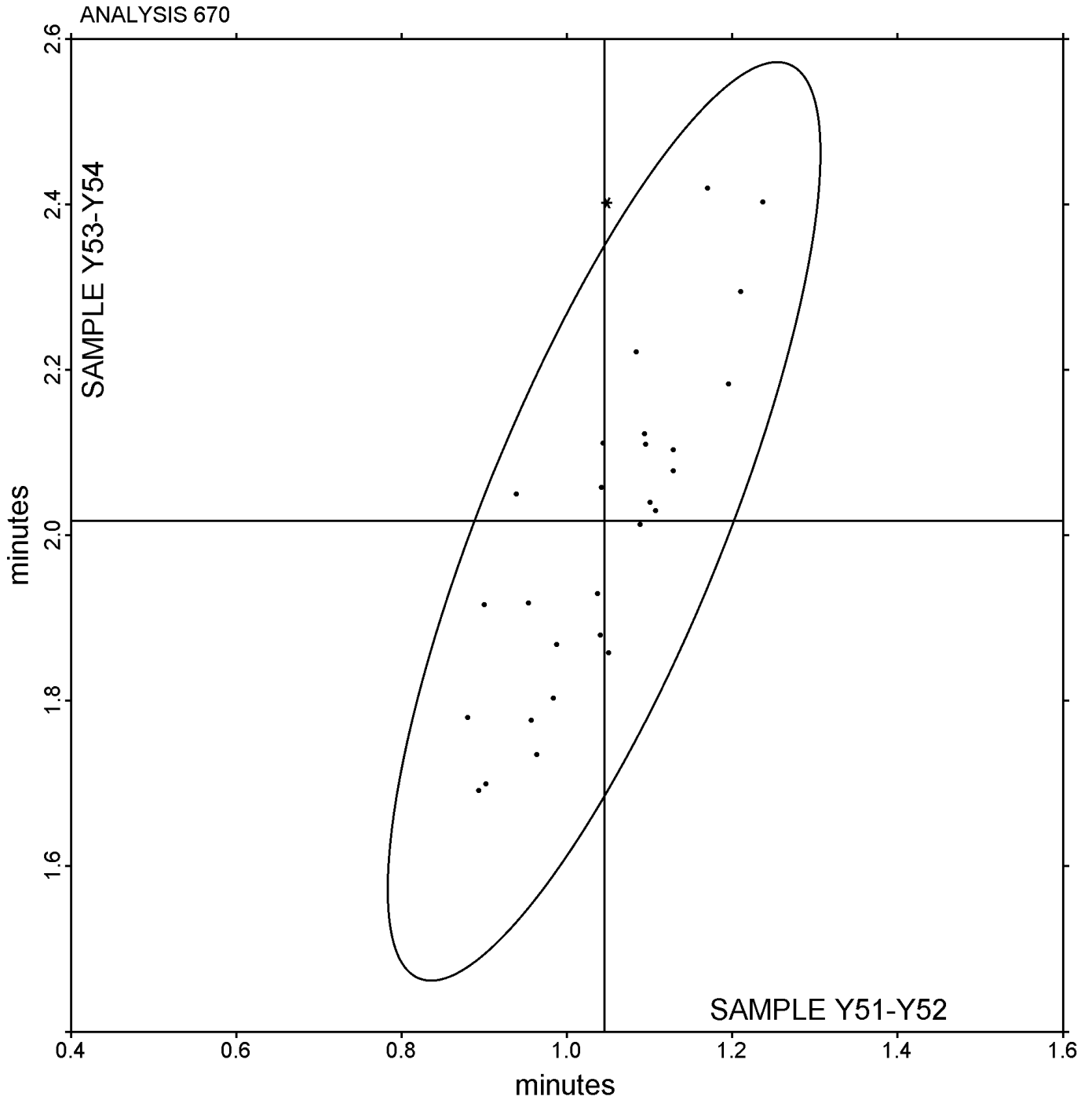
Rubber Interlaboratory Testing Program
Analysis 670
ODR Vulcanization-Scorch Time, Ts1 (minutes)

Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

Grand Mean Sample Y51-Y52 = 1.0447 minutes

Grand Mean Sample Y53-Y54 = 2.0179 minutes



Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Y51-Y52			Sample Y53-Y54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
25BCRM		2.692	-0.240	-0.88	4.382	-0.349	-1.11
3PVSB		2.728	-0.203	-0.74	4.593	-0.138	-0.44
3XCRA8		2.783	-0.148	-0.54	4.733	0.002	0.01
577KQT		3.325	0.394	1.44	5.040	0.309	0.98
5MZXS8		2.693	-0.238	-0.87	4.458	-0.273	-0.87
635UVK		2.510	-0.421	-1.55	4.213	-0.518	-1.65
6CYN4E		2.562	-0.370	-1.36	4.507	-0.224	-0.71
7Z9LHF		2.860	-0.071	-0.26	4.868	0.137	0.44
919HQ8		3.390	0.459	1.68	5.360	0.629	2.00
CRXUFD		2.910	-0.021	-0.08	4.705	-0.026	-0.08
DVJGJT		3.007	0.075	0.28	4.860	0.129	0.41
FD6T9A		2.747	-0.185	-0.68	4.433	-0.298	-0.95
FZZJVY		3.008	0.077	0.28	4.842	0.111	0.35
GFDEKD		2.953	0.022	0.08	4.698	-0.033	-0.10
GXD1WU		2.627	-0.305	-1.12	4.473	-0.258	-0.82
H124RP		2.842	-0.090	-0.33	4.800	0.069	0.22
J3TWG5		2.880	-0.051	-0.19	4.518	-0.213	-0.68
JN6HMT		2.815	-0.116	-0.43	4.487	-0.244	-0.78
KF3TCM	*	3.457	0.525	1.93	4.945	0.214	0.68
MNWFNL		3.423	0.492	1.80	5.287	0.556	1.77
NB3MM2		3.203	0.272	1.00	4.785	0.054	0.17
NRNBBS		3.032	0.100	0.37	4.738	0.007	0.02
P3H923		3.122	0.190	0.70	4.693	-0.038	-0.12
R1H7XK		2.715	-0.216	-0.79	4.510	-0.221	-0.70
R8WCV6	*	3.343	0.412	1.51	5.518	0.787	2.51
VKV5KA		3.047	0.115	0.42	4.928	0.197	0.63
W5DLD4		2.711	-0.220	-0.81	4.550	-0.181	-0.58
ZJ9C2V		2.577	-0.355	-1.30	4.247	-0.484	-1.54
ZUKL1N		3.047	0.115	0.42	5.027	0.296	0.94

Summary Statistics

Grand Means

2.9313 minutes

4.7310 minutes

Std Dev Btwn Labs

0.2726 minutes

0.3140 minutes

Statistics based on 29 of 29 reporting participants

Rubber Interlaboratory Testing Program
Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

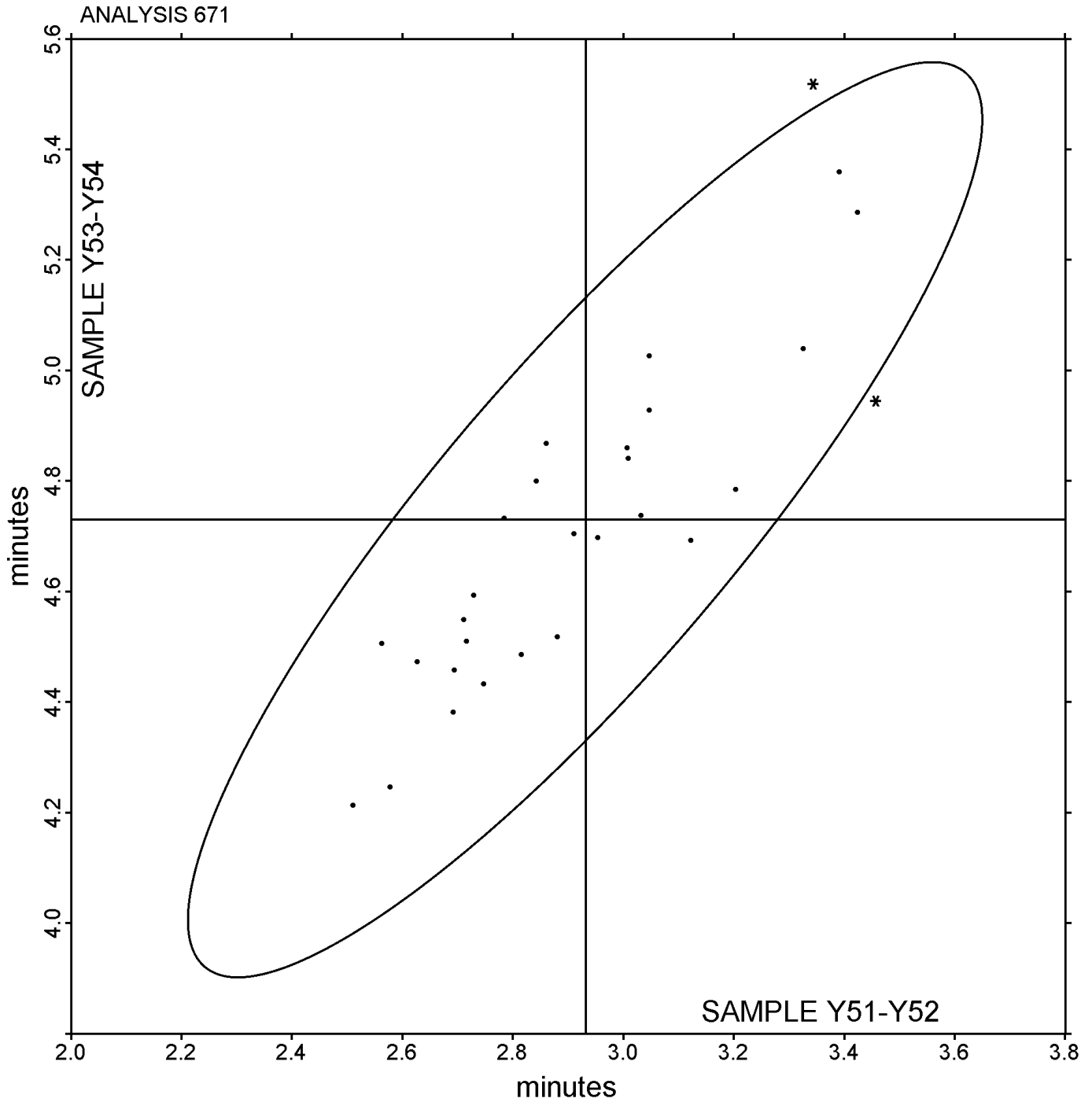
Samples Y51-Y52: EPDM compound #1 & Y53-Y54: EPDM compound #2

Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample Y51-Y52 = 2.9313 minutes

Grand Mean Sample Y53-Y54 = 4.7310 minutes



Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Y51-Y52			Sample Y53-Y54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
18GJTM		9.86	-2.22	-2.31	7.300	-1.417	-1.75
3NLADD		12.95	0.86	0.90	8.462	-0.256	-0.32
4S8YZ7		11.70	-0.38	-0.40	8.442	-0.276	-0.34
515DZP		9.75	-2.33	-2.42	7.493	-1.224	-1.51
5VFGAK		11.63	-0.45	-0.47	8.662	-0.056	-0.07
7X7Y4W		13.45	1.36	1.42	9.408	0.691	0.85
864V6R		13.32	1.24	1.29	9.335	0.618	0.76
8BWX86		12.31	0.23	0.24	8.817	0.099	0.12
9A8AUF		11.18	-0.90	-0.94	8.918	0.201	0.25
AELAPJ		11.99	-0.09	-0.09	8.228	-0.489	-0.60
BA31V9		12.66	0.58	0.60	9.647	0.929	1.15
BA7DW8		11.08	-1.00	-1.04	8.380	-0.337	-0.42
C878G9		11.48	-0.60	-0.63	9.177	0.459	0.57
DN4GV2		12.42	0.34	0.35	8.153	-0.565	-0.70
DPVWCS		11.84	-0.24	-0.25	8.802	0.084	0.10
F13K6H		13.94	1.85	1.93	9.212	0.494	0.61
GRN328		12.66	0.58	0.60	10.210	1.493	1.84
HKFHDY		12.05	-0.03	-0.03	8.058	-0.659	-0.81
JW5BB4		12.51	0.43	0.44	8.200	-0.517	-0.64
KHZ4MD		13.13	1.05	1.09	9.022	0.304	0.38
KR187E		12.85	0.77	0.80	8.978	0.261	0.32
MNYQFQ		11.17	-0.91	-0.95	8.237	-0.481	-0.59
QDRAZF		12.47	0.38	0.40	9.438	0.721	0.89
QJCLDF		12.84	0.76	0.79	8.633	-0.084	-0.10
RKZ4VM		11.81	-0.27	-0.29	7.375	-1.342	-1.66
SLX6C1		11.32	-0.76	-0.79	8.263	-0.454	-0.56
SQVD4L		12.50	0.42	0.44	9.400	0.683	0.84
UQXJ6F	*	11.59	-0.49	-0.51	10.835	2.118	2.61
Y5CURR		11.90	-0.18	-0.19	7.718	-0.999	-1.23

Summary Statistics

Grand Means

12.081 minutes

8.7173 minutes

Std Dev Btwn Labs

0.962 minutes

0.8098 minutes

Statistics based on 29 of 29 reporting participants

Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

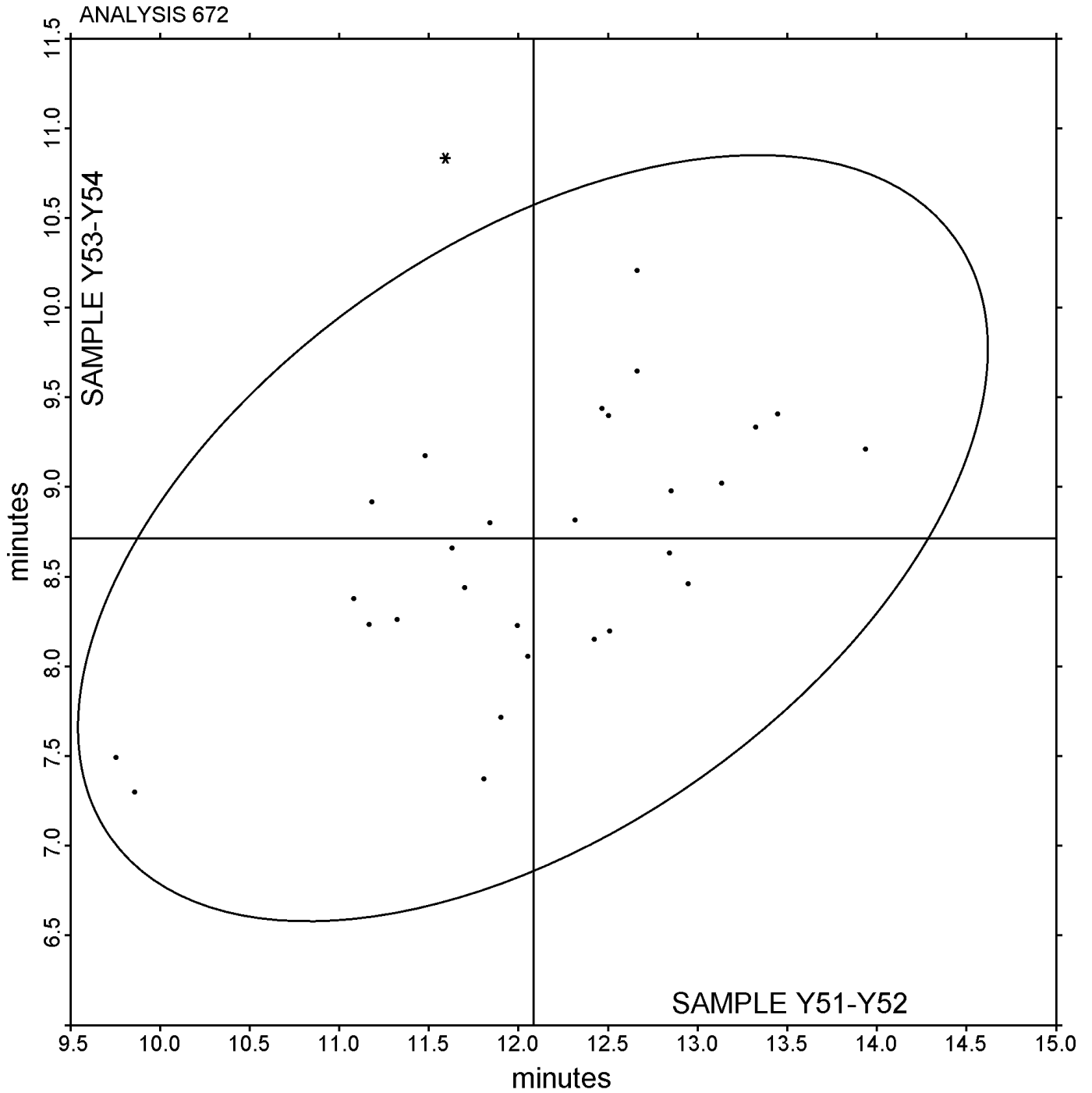
Samples Y51-Y52: EPDM compound #1 & Y53-Y54: EPDM compound #2

Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Y51-Y52 = 12.081 minutes

Grand Mean Sample Y53-Y54 = 8.7173 minutes



Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Y51-Y52			Sample Y53-Y54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2CYZ5S		8.760	0.999	1.63	9.737	0.123	0.09
2LHSL5		7.647	-0.114	-0.19	11.555	1.941	1.40
2MUBQC		7.148	-0.612	-1.00	8.585	-1.029	-0.74
4HBVGB		7.703	-0.057	-0.09	7.777	-1.837	-1.32
5F7SHE		8.083	0.323	0.53	10.133	0.520	0.37
74QT4W		6.668	-1.092	-1.79	7.730	-1.884	-1.36
9W1XYH		8.167	0.406	0.66	9.617	0.003	0.00
BEC9YK		7.550	-0.211	-0.34	10.117	0.503	0.36
BKGQ8G		7.565	-0.196	-0.32	9.602	-0.012	-0.01
CY2NU7		8.027	0.266	0.44	12.638	3.025	2.18
G1FCUP		9.178	1.418	2.32	12.063	2.450	1.76
GK4N2M		7.083	-0.677	-1.11	8.817	-0.797	-0.57
H27P2K		7.802	0.041	0.07	8.960	-0.654	-0.47
HXXSBA		8.380	0.619	1.01	10.917	1.303	0.94
KBBJGC		7.410	-0.351	-0.57	8.660	-0.954	-0.69
KG2PAZ		8.315	0.554	0.91	10.170	0.556	0.40
KJEWNU		7.458	-0.302	-0.49	8.728	-0.885	-0.64
M1QWSC		7.464	-0.297	-0.49	9.367	-0.246	-0.18
MFFM9N		9.200	1.439	2.35	11.143	1.530	1.10
MWPX17		7.888	0.128	0.21	9.278	-0.335	-0.24
PWEEW9		7.722	-0.039	-0.06	11.452	1.838	1.32
QCRX2T		7.980	0.219	0.36	9.130	-0.484	-0.35
SPCLWU		7.108	-0.652	-1.07	7.923	-1.690	-1.22
ST3P8G		7.288	-0.472	-0.77	8.480	-1.134	-0.82
T825DN		7.413	-0.347	-0.57	8.125	-1.489	-1.07
W719NG		7.510	-0.251	-0.41	8.812	-0.802	-0.58
Z1VLKJ		8.260	0.499	0.82	12.140	2.526	1.82
Z6AQAJ		7.092	-0.669	-1.09	8.775	-0.839	-0.60
ZUCJVQ		7.190	-0.571	-0.93	8.362	-1.252	-0.90

Summary Statistics

Grand Means

7.7607 lbf.in

9.6135 lbf.in

Std Dev Btwn Labs

0.6112 lbf.in

1.3885 lbf.in

Statistics based on 29 of 29 reporting participants

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

		Summary Statistics in SI Units	
Grand Means	8.7684 dN.m	10.8618	dN.m
Stnd Dev Btwn Labs	0.6906 dN.m	1.5688	dN.m
Statistics based on 29 of 29 reporting participants			

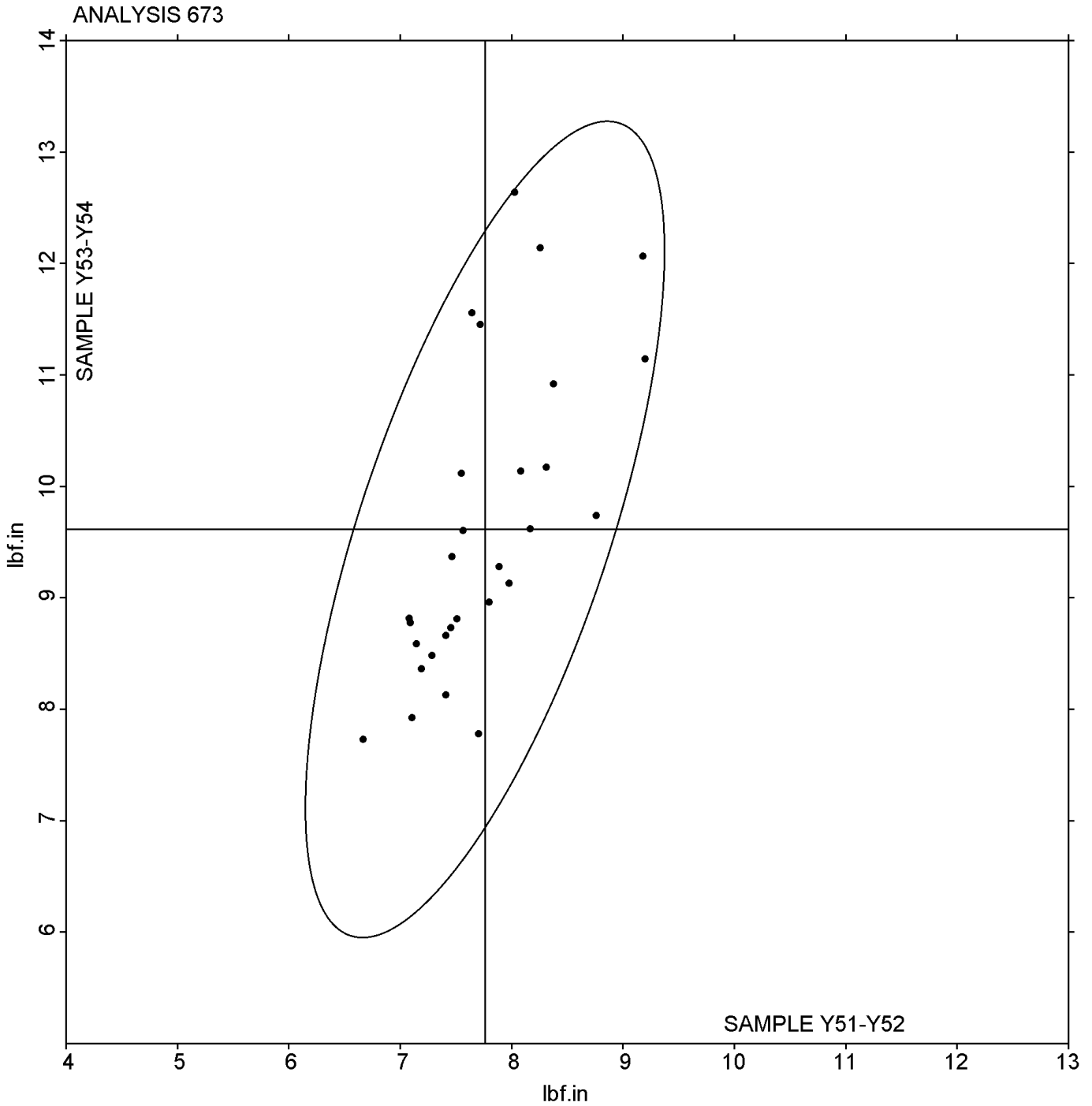
Samples Y51-Y52: EPDM compound #1 & Y53-Y54: EPDM compound #2

Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Y51-Y52 = 7.7607 lbf.in

Grand Mean Sample Y53-Y54 = 9.6135 lbf.in



Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Y51-Y52			Sample Y53-Y54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2PWR2Z	*	44.24	7.09	2.54	36.27	5.39	2.62
6H22ZD		35.81	-1.35	-0.48	29.50	-1.38	-0.67
6RVYAZ		36.22	-0.93	-0.33	30.28	-0.60	-0.29
6UV6T9		37.05	-0.11	-0.04	31.74	0.86	0.42
7P8CW1		38.94	1.79	0.64	31.12	0.24	0.12
A18QFS		35.86	-1.29	-0.46	29.72	-1.15	-0.56
A5WJ4C		38.13	0.98	0.35	31.11	0.24	0.11
DSD3P6		37.43	0.27	0.10	32.58	1.70	0.83
EJAYQ2		39.33	2.17	0.78	30.77	-0.11	-0.05
G92NJY		37.49	0.34	0.12	30.17	-0.71	-0.35
HPFAKS	*	39.66	2.50	0.90	35.91	5.03	2.45
JEHK44		36.74	-0.41	-0.15	30.21	-0.67	-0.33
JLRSZB		33.58	-3.57	-1.28	29.18	-1.70	-0.83
KUV9QV		37.92	0.76	0.27	31.60	0.72	0.35
L53DEX		35.66	-1.50	-0.54	31.68	0.81	0.39
LZQPK1	*	45.61	8.45	3.03	34.82	3.94	1.92
M6P5JU		35.69	-1.46	-0.52	30.60	-0.28	-0.14
MUQ121		40.24	3.08	1.11	31.63	0.75	0.37
NM47FN		37.56	0.40	0.14	31.28	0.40	0.19
PF61LW		36.96	-0.20	-0.07	30.23	-0.65	-0.31
RRPM9S		34.23	-2.92	-1.05	28.21	-2.67	-1.30
SUKJAC		34.18	-2.97	-1.07	27.66	-3.22	-1.57
T9HDPR		35.01	-2.15	-0.77	30.03	-0.85	-0.42
TCE3UU		35.17	-1.98	-0.71	28.67	-2.21	-1.08
U3YEY2		34.68	-2.47	-0.89	29.57	-1.31	-0.64
U5VLTF		37.15	0.00	0.00	30.00	-0.88	-0.43
U9ZW27		33.27	-3.89	-1.40	28.40	-2.48	-1.21
UQHEHH		37.59	0.43	0.16	32.41	1.53	0.74
YEFJBW		36.09	-1.07	-0.38	30.16	-0.72	-0.35

Summary Statistics

Grand Means

37.155 lbf.in

30.878 lbf.in

Std Dev Btwn Labs

2.787 lbf.in

2.054 lbf.in

Statistics based on 29 of 29 reporting participants

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

		Summary Statistics in SI Units	
Grand Means	41.979 dN.m	34.888	dN.m
Stnd Dev Btwn Labs	3.148 dN.m	2.320	dN.m
Statistics based on 29 of 29 reporting participants			

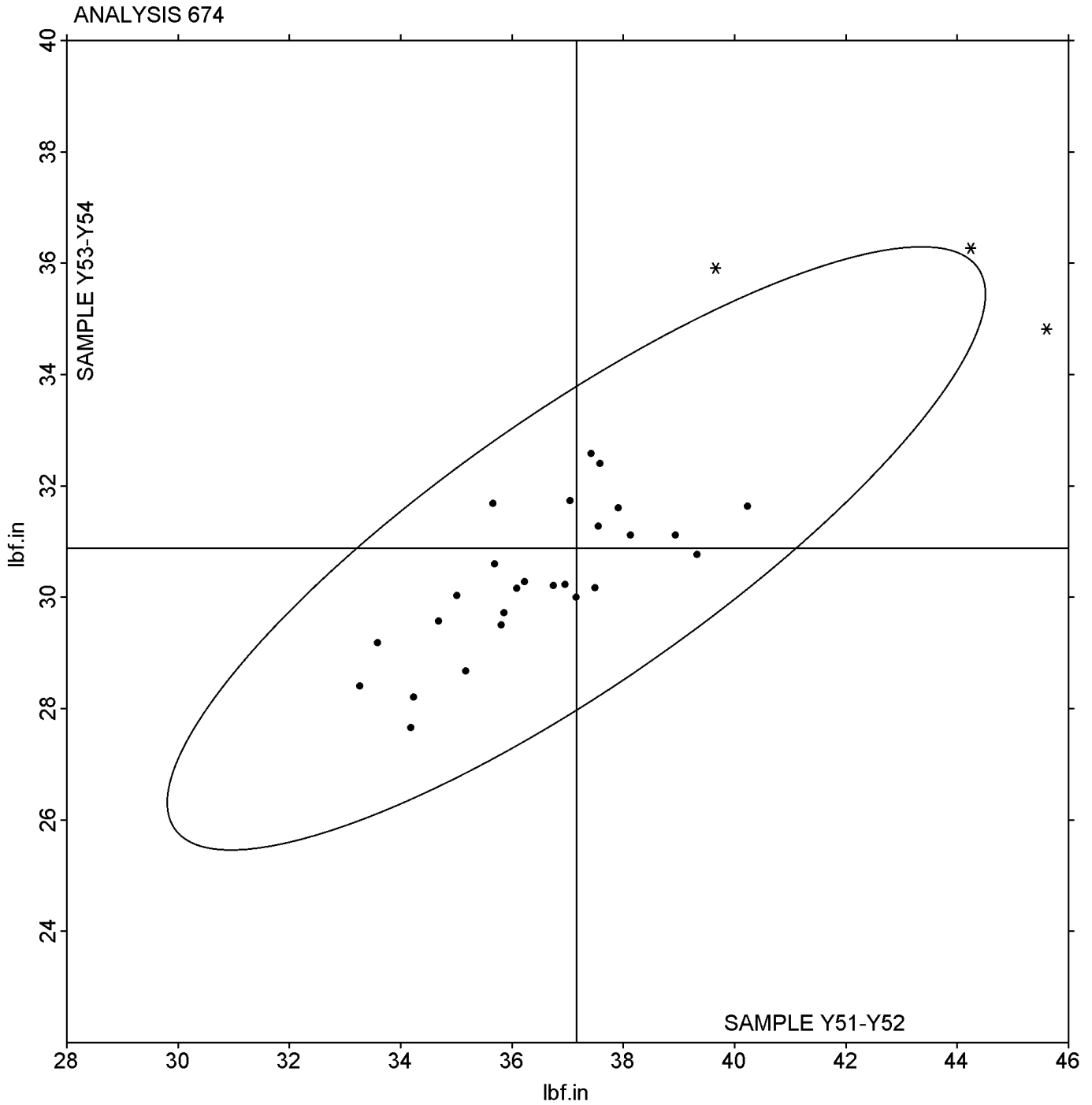
Samples Y51-Y52: EPDM compound #1 & Y53-Y54: EPDM compound #2

Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Y51-Y52 = 37.155 lbf.in

Grand Mean Sample Y53-Y54 = 30.878 lbf.in



Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1T76DC		1.583	-0.075	-0.61	1.533	-0.129	-1.04	MC
2PX4MW	X	7.785	6.127	50.32	7.662	5.999	48.44	MD
2SD58E		1.830	0.172	1.41	1.813	0.151	1.22	MC
4MX9SA		1.817	0.159	1.30	1.847	0.184	1.49	TP
5KA7CM		1.640	-0.018	-0.15	1.618	-0.044	-0.36	MC
7ALWJF		1.740	0.082	0.67	1.765	0.102	0.83	MC
7Z47NH		1.700	0.042	0.35	1.747	0.084	0.68	MC
8UEXDT		1.533	-0.125	-1.02	1.535	-0.128	-1.03	MC
8WLB2M		1.482	-0.176	-1.45	1.515	-0.148	-1.19	MC
9CGX69		1.755	0.097	0.80	1.750	0.087	0.70	MC
9RENW3		1.748	0.090	0.74	1.773	0.111	0.89	MC
9UCEY3		1.552	-0.106	-0.87	1.570	-0.093	-0.75	MD
AVS384		1.590	-0.068	-0.56	1.592	-0.071	-0.57	MC
HRQ11A		1.758	0.100	0.83	1.763	0.101	0.81	MC
K6JA7W		1.553	-0.105	-0.86	1.528	-0.134	-1.09	TP
PD1V4B		1.727	0.069	0.57	1.743	0.081	0.65	MC
PF7V6R		1.705	0.047	0.39	1.737	0.074	0.60	MC
PMABW2		1.583	-0.074	-0.61	1.600	-0.063	-0.51	MC
PQLY1P		1.873	0.215	1.77	1.887	0.224	1.81	MC
QMX7MP		1.727	0.069	0.57	1.693	0.031	0.25	MC
R6Z9HW		1.477	-0.181	-1.49	1.448	-0.214	-1.73	MC
RWXG6G		1.785	0.127	1.04	1.760	0.097	0.79	MD
V26QD1		1.689	0.031	0.26	1.667	0.004	0.03	MC
VUV12U		1.700	0.042	0.35	1.715	0.052	0.42	MD
W2M5FZ		1.392	-0.266	-2.19	1.412	-0.251	-2.03	MC
W9HQMP		1.508	-0.150	-1.23	1.540	-0.123	-0.99	MC
XMPCNV		1.715	0.057	0.47	1.708	0.046	0.37	MD
Y46GBU		1.600	-0.058	-0.48	1.633	-0.029	-0.24	MD

Summary Statistics

Grand Means

1.6579 minutes

1.6627 minutes

Std Dev Btwn Labs

0.1218 minutes

0.1238 minutes

Statistics based on 27 of 28 reporting participants

Samples Y55-Y56: EPDM compound, batch #1 & Y57-Y58: EPDM compound, batch #2

**Rubber Interlaboratory Testing Program
Analysis 684**

MDR Vulcanization-Cure Time 10% (minutes)

Comments on assigned Data Flags for Test #684

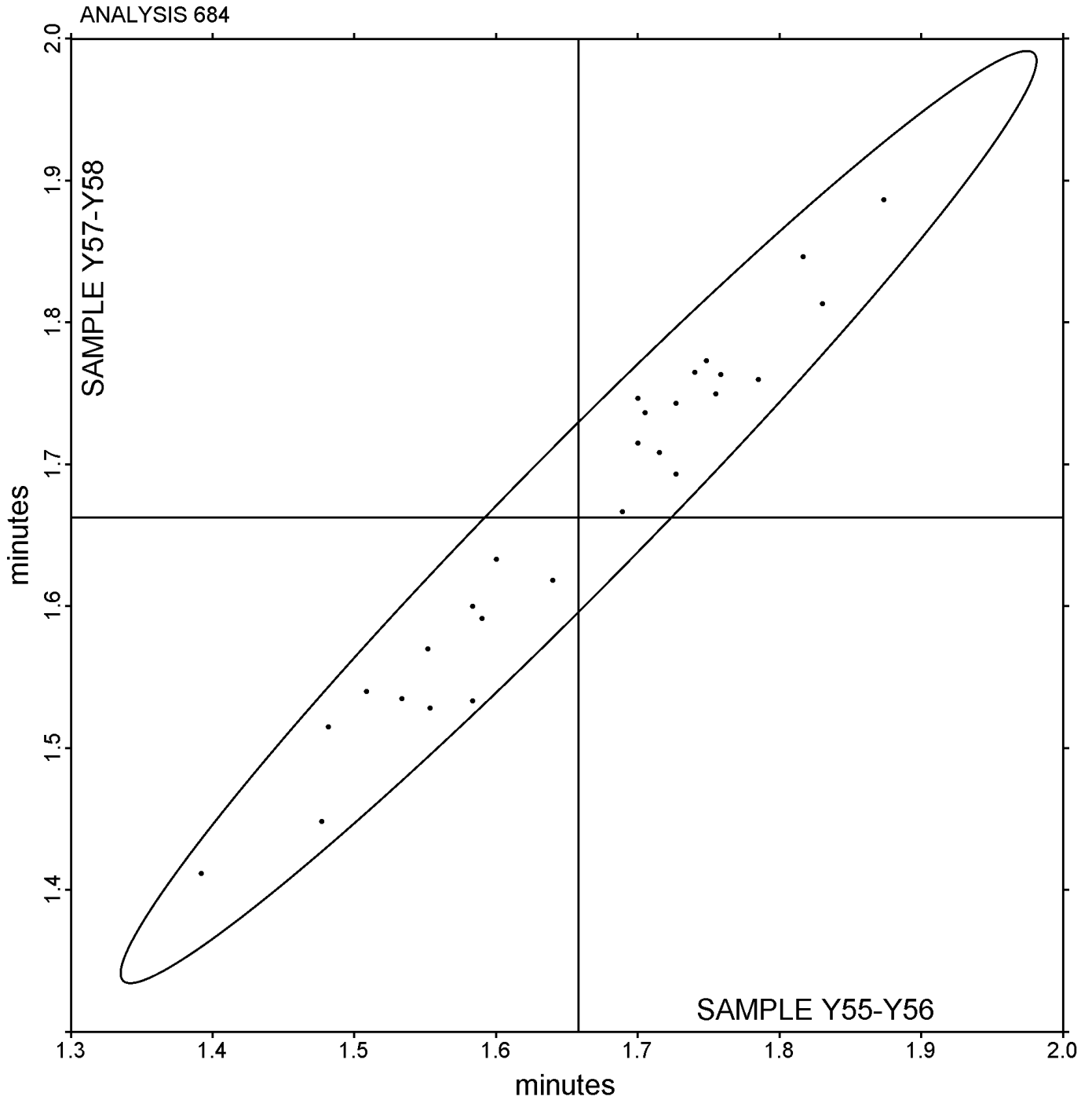
2PX4MW (X) - Data for all Samples are high.

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample Y55-Y56 = 1.6579 minutes

Grand Mean Sample Y57-Y58 = 1.6627 minutes



Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1CX1YG		1.593	-0.111	-1.06	1.600	-0.112	-1.04	MC
2AZZFK		1.598	-0.106	-1.02	1.563	-0.148	-1.38	MC
33FPPH		1.593	-0.111	-1.06	1.630	-0.082	-0.76	MC
35P9M9		1.892	0.187	1.78	1.925	0.213	1.99	MC
55J7YS		1.772	0.067	0.64	1.803	0.092	0.86	MC
5EJ81H		1.505	-0.200	-1.91	1.512	-0.200	-1.86	MC
66ZFZM		1.607	-0.098	-0.94	1.633	-0.078	-0.73	MC
6K6858		1.682	-0.023	-0.22	1.665	-0.047	-0.43	MC
71SXBX		1.763	0.059	0.56	1.767	0.055	0.51	MC
834L6E		1.742	0.037	0.35	1.760	0.048	0.45	MC
87BWFQ		1.678	-0.027	-0.26	1.706	-0.006	-0.06	MC
8G8YD9	X	1.707	0.002	0.02	1.938	0.227	2.11	MC
A6BUWS		1.817	0.112	1.07	1.812	0.100	0.93	MC
AHSSXW		1.815	0.110	1.05	1.798	0.087	0.81	MD
AV9NVG		1.738	0.034	0.32	1.757	0.045	0.42	MC
CTAL49		1.652	-0.053	-0.51	1.660	-0.052	-0.48	MC
D5886F		1.635	-0.070	-0.67	1.632	-0.080	-0.75	MC
DJCDC8		1.713	0.009	0.08	1.717	0.005	0.05	MD
E66E8G		1.650	-0.055	-0.52	1.657	-0.055	-0.51	MC
EF91C1	*	1.700	-0.005	-0.05	1.650	-0.062	-0.57	MC
EGEP99		1.632	-0.073	-0.70	1.673	-0.038	-0.36	MC
H18EJG		1.742	0.037	0.35	1.743	0.032	0.30	MC
KEAEVD		1.817	0.112	1.07	1.805	0.093	0.87	MD
KHK7QV		1.790	0.085	0.81	1.772	0.060	0.56	MC
KRCJQW	*	1.992	0.287	2.74	2.035	0.323	3.01	TP
KX6FSU		1.773	0.069	0.65	1.773	0.062	0.58	TP
MCS6KN		1.731	0.026	0.25	1.725	0.013	0.13	MC
NJA9DR		1.760	0.055	0.53	1.773	0.062	0.58	MC
RJ95YY		1.788	0.084	0.80	1.805	0.093	0.87	MD
RW92T3		1.567	-0.138	-1.32	1.553	-0.158	-1.48	MC
RXJKR9		1.725	0.020	0.19	1.713	0.002	0.02	MC
T7P4HS		1.787	0.082	0.78	1.777	0.065	0.61	MD
T84Y6U		1.573	-0.131	-1.25	1.592	-0.120	-1.12	MC
X8RPRG		1.750	0.045	0.43	1.762	0.050	0.47	MC
XK51PD		1.657	-0.048	-0.46	1.677	-0.035	-0.33	MD

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XPWP6M		1.643	-0.061	-0.59	1.663	-0.048	-0.45	MC
YFGR4V		1.502	-0.203	-1.94	1.530	-0.182	-1.69	MC

Summary Statistics

Grand Means

1.7048 minutes

1.7116 minutes

Std Dev Btwn Labs

0.1049 minutes

0.1073 minutes

Statistics based on 36 of 37 reporting participants

Samples Y55-Y56: EPDM compound, batch #1 & Y57-Y58: EPDM compound, batch #2

Comments on assigned Data Flags for Test #685

8G8YD9 (X) - Inconsistency in testing between Sample sets and within Sample Y55.

Instrument Code Listing**685 MDR Vulcanization-Scorch Time, Ts1 (minutes)****Instruments (as reported by the labs):**

(MC) Alpha Technologies [Monsanto] MDR 2000 or 2000E

(MD) Alpha Tech. Rubber Process Analyzer (RPA 2000)

(TP) Tech Pro MDR model MDPT

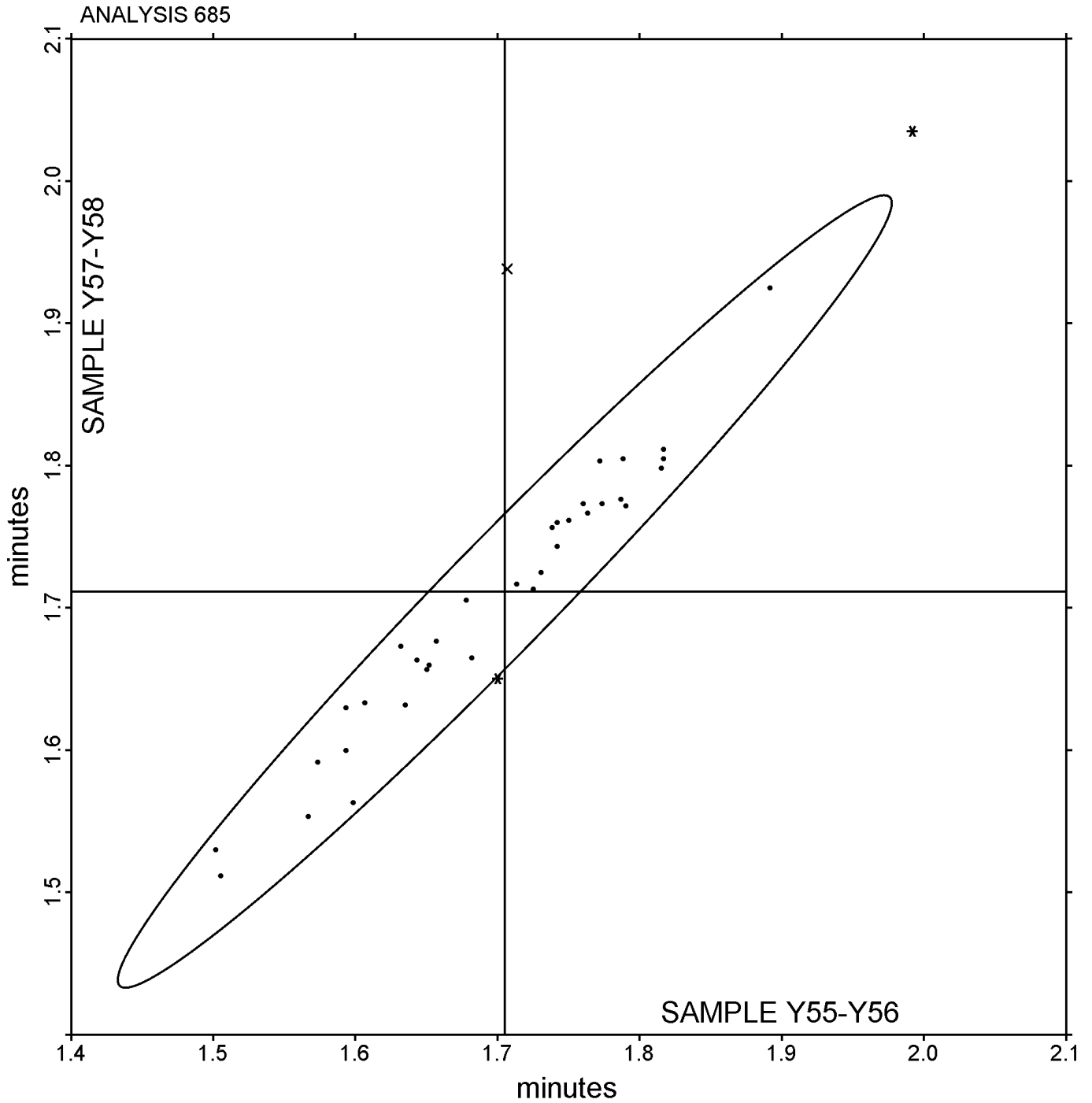
(XX) Instrument model not specified by lab

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

Grand Mean Sample Y55-Y56 = 1.7048 minutes

Grand Mean Sample Y57-Y58 = 1.7116 minutes



Rubber Interlaboratory Testing Program

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1XCYAS		4.382	0.082	0.29	4.482	0.166	0.58	MC
25CE79		4.887	0.587	2.09	4.848	0.532	1.88	MC
2SCCEE	*	5.075	0.776	2.75	5.148	0.832	2.94	TP
4L8VFS		4.277	-0.023	-0.08	4.255	-0.061	-0.22	MC
72UBLU		4.560	0.261	0.93	4.518	0.202	0.71	MD
ABHZEY		4.339	0.040	0.14	4.370	0.054	0.19	MC
BC9VJX		4.423	0.124	0.44	4.463	0.147	0.52	MC
BSEK93		4.540	0.241	0.85	4.510	0.194	0.68	MC
C5TMWD		4.310	0.011	0.04	4.362	0.046	0.16	MC
CLYQ2P		4.467	0.167	0.59	4.467	0.151	0.53	MC
FQZD7V		4.448	0.149	0.53	4.535	0.219	0.77	MC
G3DHNJ		4.213	-0.086	-0.31	4.310	-0.006	-0.02	MC
HBYS53	*	3.573	-0.726	-2.58	3.628	-0.688	-2.43	MC
HMULBJ		4.338	0.039	0.14	4.205	-0.111	-0.39	MC
J1ZU52	X	4.138	-0.161	-0.57	4.407	0.091	0.32	MC
JMVE8Y		4.322	0.022	0.08	4.388	0.072	0.26	MD
KNECFE		4.000	-0.299	-1.06	3.922	-0.394	-1.39	MC
LR5VSS		4.408	0.109	0.39	4.338	0.022	0.08	MC
MW9HWR		4.377	0.077	0.27	4.433	0.117	0.41	MD
N37PVT		4.458	0.159	0.56	4.420	0.104	0.37	MC
N3WRVF		4.072	-0.228	-0.81	4.132	-0.184	-0.65	MD
QL4EPD		4.217	-0.083	-0.29	4.250	-0.066	-0.23	MC
R3K7TE		4.335	0.036	0.13	4.332	0.016	0.06	MC
R4TPNY		4.125	-0.174	-0.62	4.156	-0.160	-0.57	MC
S6FCJP		4.387	0.087	0.31	4.503	0.187	0.66	MC
T4F8CH		4.095	-0.204	-0.73	4.072	-0.244	-0.86	MC
T5R9VX		3.823	-0.476	-1.69	3.892	-0.424	-1.50	MC
TBJY2M		3.852	-0.448	-1.59	3.827	-0.489	-1.73	MC
TLLB9K		4.202	-0.098	-0.35	4.180	-0.136	-0.48	MC
UXL69H		4.365	0.066	0.23	4.317	0.001	0.00	MD
VVBW3S		3.875	-0.424	-1.51	3.913	-0.403	-1.42	MC
VYKP9J		4.355	0.056	0.20	4.333	0.017	0.06	TP
W6SM5Q		4.298	-0.001	0.00	4.250	-0.066	-0.23	MC
WBA6TZ		4.740	0.441	1.56	4.808	0.492	1.74	MD
WVXRG1		4.400	0.101	0.36	4.382	0.066	0.23	MC

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
X4BATJ		4.167	-0.133	-0.47	4.250	-0.066	-0.23	MC
ZBUSNC		4.302	0.002	0.01	4.328	0.012	0.04	MC
ZEJZ7E		4.068	-0.231	-0.82	4.165	-0.151	-0.53	MC

Grand Means		Summary Statistics	
	4.2993 minutes		4.3160 minutes
Std Dev Btwn Labs			0.2834 minutes
	0.2816 minutes	Statistics based on 37 of 38 reporting participants	

Samples Y55-Y56: EPDM compound, batch #1 & Y57-Y58: EPDM compound, batch #2

Comments on assigned Data Flags for Test #686

J1ZU52 (X) - Inconsistency in testing between Sample sets.

Instrument Code Listing

686 MDR Vulcanization-Cure Time 50% (minutes)

Instruments (as reported by the labs):

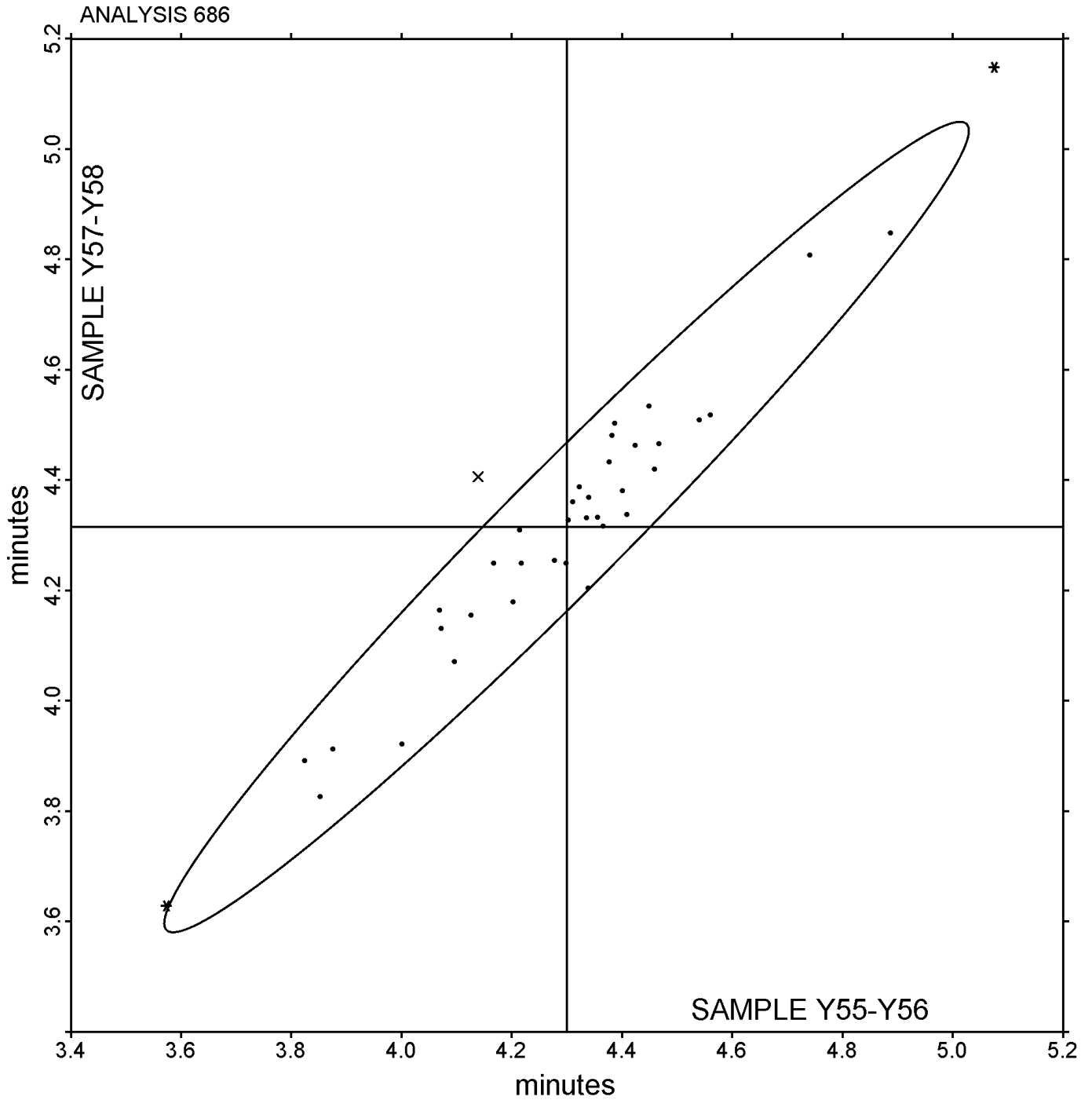
- (MC) Alpha Technologies [Monsanto] MDR 2000 or 2000E
- (MD) Alpha Tech. Rubber Process Analyzer (RPA 2000)
- (TP) Tech Pro MDR model MDPT
- (XX) Instrument model not specified by lab

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample Y55-Y56 = 4.2993 minutes

Grand Mean Sample Y57-Y58 = 4.3160 minutes



Rubber Interlaboratory Testing Program

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1PCDBW	*	7.033	-0.714	-2.09	6.883	-0.838	-2.47	MC
2D2GQE		7.915	0.168	0.49	7.833	0.112	0.33	MD
2Y5B85		7.490	-0.257	-0.75	7.542	-0.179	-0.53	MC
36BXNQ		8.098	0.351	1.03	7.987	0.266	0.78	MC
3F5J5H		7.793	0.046	0.14	7.817	0.096	0.28	MC
3PVQJU		7.792	0.045	0.13	7.765	0.044	0.13	MC
4KABG7		7.422	-0.325	-0.95	7.367	-0.354	-1.04	MC
51VCH1		7.864	0.117	0.34	7.839	0.118	0.35	MC
5B2FBH		7.788	0.041	0.12	7.805	0.084	0.25	MC
6RTVMD		7.722	-0.025	-0.07	7.793	0.072	0.21	MC
8JCPKN		7.668	-0.079	-0.23	7.482	-0.239	-0.70	MD
8R47J5		7.812	0.065	0.19	7.888	0.167	0.49	TP
9WVUT3		8.040	0.293	0.86	8.037	0.316	0.93	MD
C6AZ21		7.718	-0.029	-0.08	7.543	-0.178	-0.52	MC
CT823C	*	6.992	-0.755	-2.21	7.145	-0.576	-1.70	MC
DEMNAV		7.633	-0.114	-0.33	7.533	-0.188	-0.55	MC
E4AYJF		7.787	0.040	0.12	7.662	-0.059	-0.17	MD
FGRQPK		8.123	0.376	1.10	8.048	0.327	0.96	MC
FVHCAZ		7.798	0.051	0.15	7.942	0.221	0.65	MC
G2BKSW		7.202	-0.545	-1.60	7.220	-0.501	-1.47	MC
GVBZ5T		7.942	0.195	0.57	7.800	0.079	0.23	MD
H39EFX	*	7.927	0.180	0.53	8.162	0.441	1.30	MC
H8BKVU		7.863	0.116	0.34	7.802	0.081	0.24	MC
HT58WK		7.555	-0.192	-0.56	7.638	-0.083	-0.24	MC
MABKKF		8.085	0.338	0.99	7.927	0.206	0.61	MC
MCKC9H		7.940	0.193	0.57	7.858	0.137	0.40	MD
MNJYMA		7.865	0.118	0.35	7.810	0.089	0.26	MC
MWN1PC		7.728	-0.019	-0.06	7.698	-0.023	-0.07	MC
MY3T2X		8.283	0.536	1.57	8.202	0.481	1.41	MC
Q29HUK	*	8.712	0.965	2.83	8.700	0.979	2.88	MC
QWWR7U		7.287	-0.460	-1.35	7.212	-0.509	-1.50	MC
VN56RF		7.250	-0.497	-1.46	7.190	-0.531	-1.56	MC
VQLK3Q		7.312	-0.435	-1.28	7.392	-0.329	-0.97	MC
VTFENK		7.895	0.148	0.43	7.840	0.119	0.35	MC
WM5VGC	X	9.082	1.335	3.91	9.162	1.441	4.24	TP

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XFIJXY		7.840	0.093	0.27	7.783	0.062	0.18	MC
XQXNNG		7.858	0.111	0.33	7.903	0.182	0.54	MC
YQM6SR		7.611	-0.136	-0.40	7.633	-0.088	-0.26	MC

Summary Statistics

Grand Means

7.7471 minutes

7.7211 minutes

Std Dev Btwn Labs

0.3412 minutes

0.3397 minutes

Statistics based on 37 of 38 reporting participants

Samples Y55-Y56: EPDM compound, batch #1 & Y57-Y58: EPDM compound, batch #2

Comments on assigned Data Flags for Test #687

WM5VGC (X) - Data for all Samples are high.

Instrument Code Listing**687 MDR Vulcanization-Cure Time 90% (minutes)**Instruments (as reported by the labs):

(MC) Alpha Technologies [Monsanto] MDR 2000 or 2000E

(MD) Alpha Tech. Rubber Process Analyzer (RPA 2000)

(TP) Tech Pro MDR model MDPT

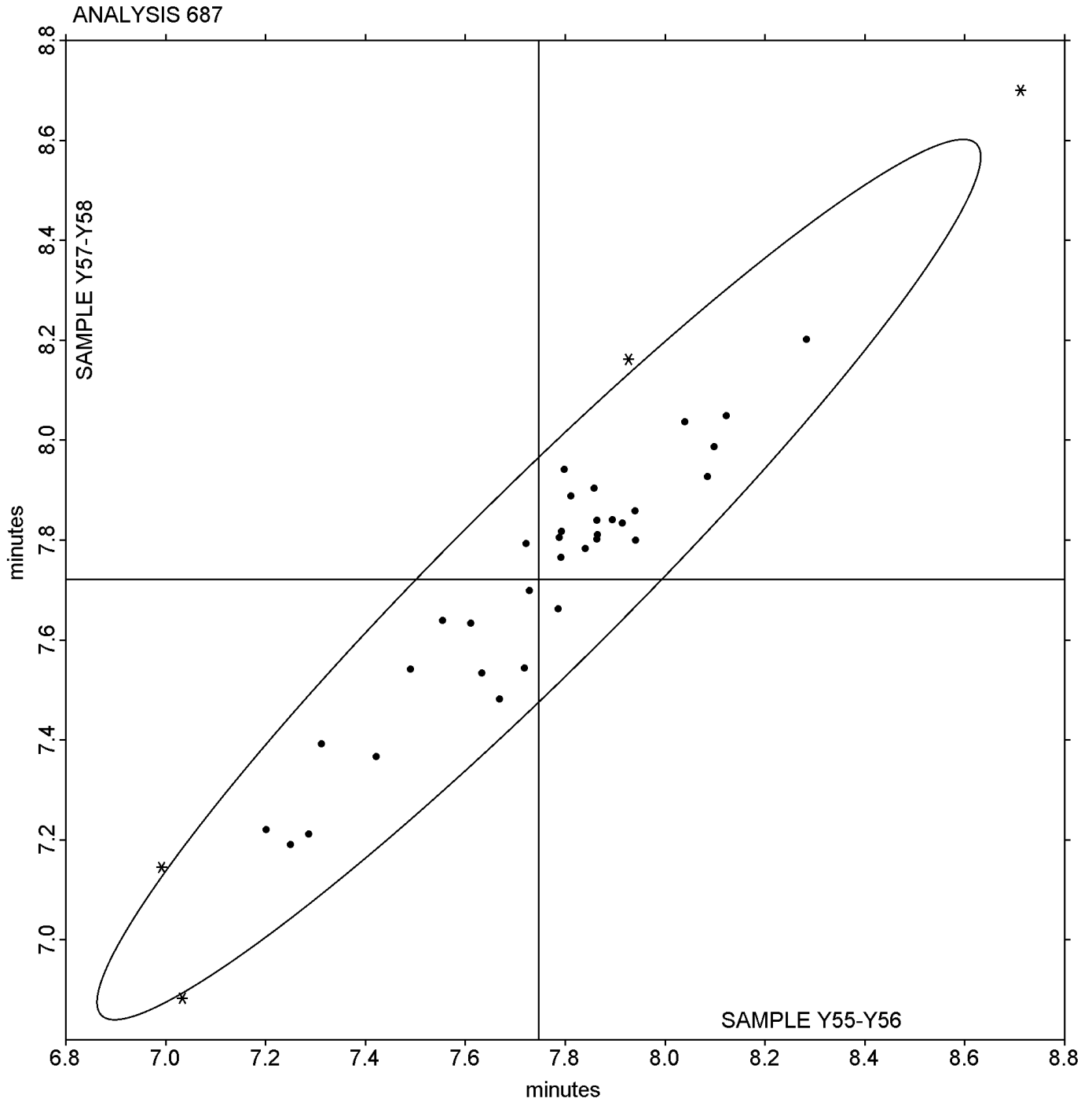
(XX) Instrument model not specified by lab

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Y55-Y56 = 7.7471 minutes

Grand Mean Sample Y57-Y58 = 7.7211 minutes



Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1478Z6		2.207	-0.202	-0.79	2.202	-0.200	-0.77	MC
1L44A5		2.170	-0.239	-0.94	2.158	-0.243	-0.94	MC
7NJ28W		2.555	0.146	0.57	2.560	0.158	0.61	TP
8FQ686		2.402	-0.007	-0.03	2.395	-0.007	-0.03	MC
8NR9F6		2.440	0.031	0.12	2.438	0.037	0.14	MC
A6FWYR		2.272	-0.137	-0.54	2.257	-0.145	-0.56	MC
AS5ESH		2.204	-0.205	-0.80	2.220	-0.182	-0.70	MC
AUJ746		2.198	-0.211	-0.82	2.202	-0.200	-0.77	MD
B46N6A		2.449	0.040	0.16	2.432	0.031	0.12	MC
B97MC7		2.355	-0.054	-0.21	2.357	-0.045	-0.17	MC
C2S2WY		2.825	0.416	1.63	2.787	0.385	1.48	MC
CM3CA7		2.742	0.333	1.30	2.740	0.338	1.30	MC
CMCB6S		2.189	-0.220	-0.86	2.170	-0.232	-0.89	MC
DH9K9Q		2.423	0.014	0.06	2.385	-0.017	-0.06	MC
EQQUHR		2.695	0.286	1.12	2.732	0.330	1.27	MC
GPGEB8	X	2.417	0.008	0.03	2.550	0.148	0.57	MC
GY6X8G		2.343	-0.066	-0.26	2.347	-0.055	-0.21	MC
H1DL8Y	X	3.767	1.358	5.31	3.647	1.245	4.80	MC
HS5WTL		2.828	0.419	1.64	2.825	0.423	1.63	MC
HS98Q1		2.167	-0.242	-0.95	2.182	-0.220	-0.85	MD
JDRU6S		2.185	-0.224	-0.88	2.138	-0.263	-1.02	MC
JPJHPU	*	3.128	0.719	2.81	3.130	0.728	2.81	MC
MB7JUG		2.172	-0.238	-0.93	2.161	-0.241	-0.93	MD
MNA69A		2.312	-0.097	-0.38	2.308	-0.093	-0.36	MC
NCG1E1		2.318	-0.091	-0.35	2.327	-0.075	-0.29	MC
PJ9TUR		2.733	0.324	1.27	2.735	0.333	1.28	MC
QU52ZM		2.353	-0.056	-0.22	2.340	-0.062	-0.24	MC
RCRDP5		2.332	-0.077	-0.30	2.292	-0.109	-0.42	MC
RZCGA3		2.171	-0.238	-0.93	2.154	-0.248	-0.96	MD
U9BYUF		2.273	-0.136	-0.53	2.257	-0.145	-0.56	MC
VM7VST		2.915	0.506	1.98	2.948	0.547	2.11	MC
WL87R9		2.171	-0.238	-0.93	2.205	-0.196	-0.76	MC
XF331F	*	2.370	-0.039	-0.15	2.293	-0.108	-0.42	TP
Y6S85Y		2.391	-0.018	-0.07	2.393	-0.009	-0.03	MC
Y8WR61		2.333	-0.076	-0.30	2.325	-0.077	-0.30	MC

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YMNFD		2.101	-0.308	-1.20	2.106	-0.296	-1.14	MD
YR6E9G		2.235	-0.174	-0.68	2.215	-0.187	-0.72	MC
ZVZTBU		2.767	0.358	1.40	2.745	0.343	1.32	MD

Summary Statistics

Grand Means

2.4090 lbf.in

2.4017 lbf.in

Std Dev Btwn Labs

0.2556 lbf.in

0.2594 lbf.in

Statistics based on 36 of 38 reporting participants

Summary Statistics in SI Units

Grand Means

2.7219 dN.m

2.7135 dN.m

Std Dev Btwn Labs

0.2888 dN.m

0.2931 dN.m

Statistics based on 36 of 38 reporting participants

Samples Y55-Y56: EPDM compound, batch #1 & Y57-Y58: EPDM compound, batch #2

Comments on assigned Data Flags for Test #688

GPGE8 (X) - Inconsistency in testing between Sample sets.

H1DL8Y (X) - Data for all Samples are high. Lab indicated reporting in lbf.in, but data may be in dN.m.

Instrument Code Listing**688 MDR Vulcanization: Minimum Torque (lbf.in)****Instruments (as reported by the labs):**

(MC) Alpha Technologies [Monsanto] MDR 2000 or 2000E

(MD) Alpha Tech. Rubber Process Analyzer (RPA 2000)

(TP) Tech Pro MDR model MDPT

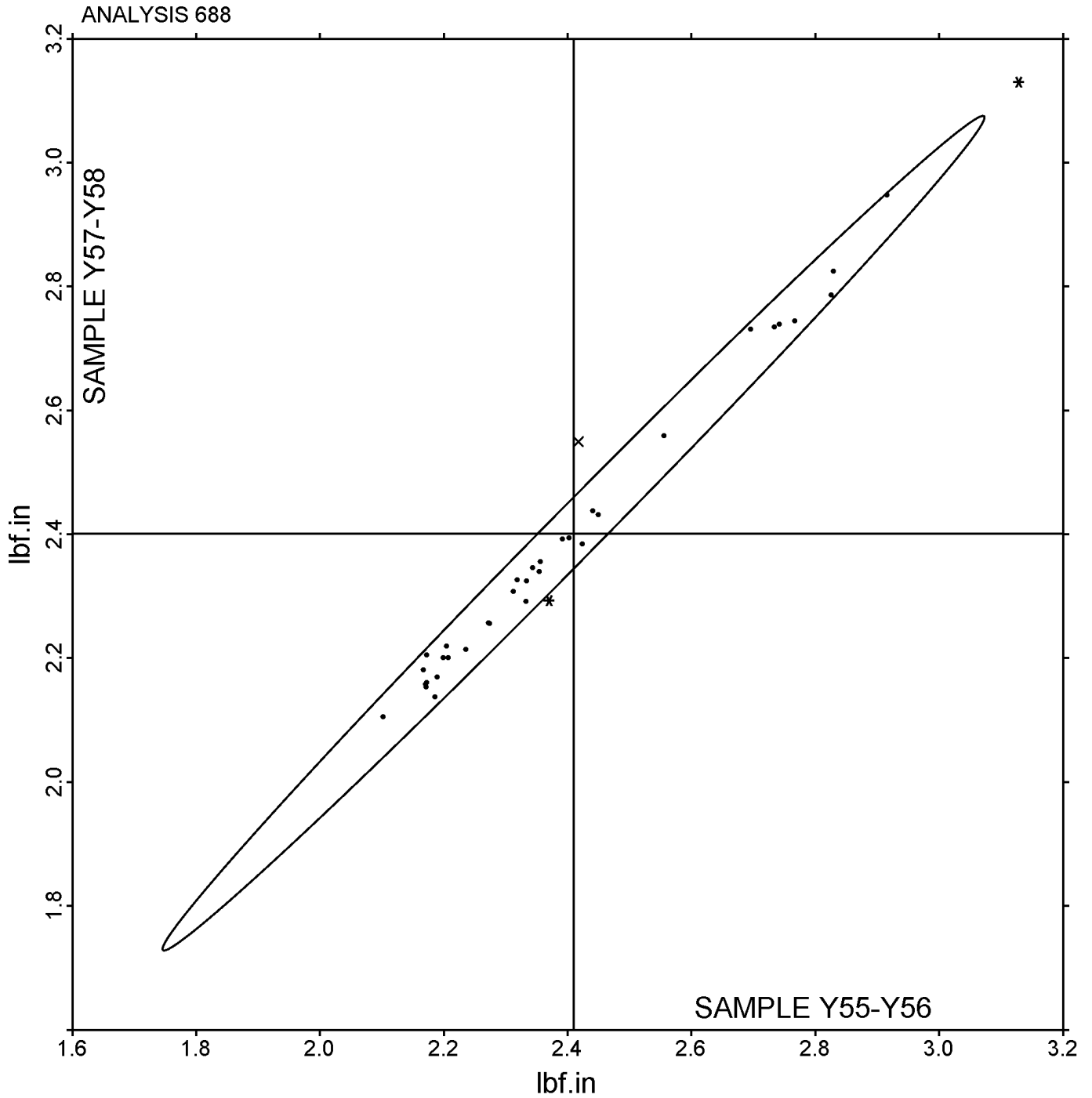
(XX) Instrument model not specified by lab

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Y55-Y56 = 2.4090 lbf.in

Grand Mean Sample Y57-Y58 = 2.4017 lbf.in



Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4ML8VP		11.53	-0.19	-0.35	11.54	-0.16	-0.27	MD
4Y5UVH		11.67	-0.05	-0.10	11.71	0.01	0.02	MC
5J4DB9	*	10.14	-1.58	-2.85	9.92	-1.77	-3.05	MC
5K5ARR		12.04	0.32	0.57	11.89	0.19	0.33	MC
7PEHKS		12.19	0.47	0.84	12.41	0.72	1.23	MC
7Z8QT9		11.85	0.13	0.24	11.70	0.00	0.00	MC
87NP6T		12.04	0.32	0.57	11.81	0.11	0.19	MC
9A92Q3		10.56	-1.16	-2.09	10.42	-1.28	-2.20	TP
9N1PZ2		11.23	-0.49	-0.89	11.41	-0.28	-0.48	MD
9YZ329		12.37	0.65	1.17	12.20	0.51	0.87	MC
AYH23D		11.64	-0.08	-0.15	11.66	-0.04	-0.06	MC
C1H1BW		12.11	0.39	0.71	11.95	0.26	0.44	MC
DLRDXW		11.80	0.08	0.15	11.99	0.29	0.50	MC
EZGEJS		11.63	-0.09	-0.17	11.51	-0.19	-0.32	MC
F2H67F		11.67	-0.05	-0.09	11.45	-0.24	-0.42	MC
JED6ET		11.74	0.02	0.03	11.87	0.17	0.30	MC
JUR1YS		11.95	0.23	0.41	12.06	0.37	0.63	MC
JVLN8A		12.41	0.69	1.25	12.36	0.67	1.15	MC
L2VVN9		10.44	-1.28	-2.31	10.34	-1.35	-2.32	MC
LFBEYC		12.58	0.86	1.55	12.33	0.63	1.09	MC
MRFPJ8		11.74	0.02	0.03	11.71	0.02	0.03	MC
MTQQND	X	13.94	2.22	4.02	13.82	2.13	3.66	MC
PAH469		11.36	-0.36	-0.65	11.29	-0.40	-0.69	MC
Q2NHRP		11.39	-0.33	-0.60	11.41	-0.29	-0.49	MD
QFH2ZH		11.93	0.21	0.37	11.82	0.13	0.22	MC
T8FU6G		11.91	0.19	0.35	11.89	0.19	0.33	MC
TYZ4SK		12.46	0.74	1.33	12.50	0.81	1.39	MC
UF54NF		12.54	0.82	1.48	12.56	0.86	1.48	MC
UGY7EC		11.45	-0.27	-0.49	11.35	-0.34	-0.59	MC
UN35ZQ		12.32	0.60	1.09	12.52	0.82	1.41	MC
VF31YG		12.13	0.41	0.74	12.29	0.60	1.03	MC
VPBLY8	*	11.12	-0.60	-1.09	11.42	-0.27	-0.46	MC
WBLJ5Z		11.17	-0.55	-0.99	11.11	-0.58	-1.00	TP
WLKWQL		11.82	0.10	0.18	11.75	0.05	0.09	MC
X2NZVW		11.82	0.10	0.18	11.77	0.08	0.14	MD

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
Y792L5		11.93	0.20	0.37	11.86	0.16	0.28	MD
YF13MC		11.52	-0.20	-0.37	11.45	-0.24	-0.42	MC
ZK91EG		11.48	-0.24	-0.43	11.49	-0.20	-0.35	MD

Summary Statistics

Grand Means

11.721 lbf.in

11.694 lbf.in

Std Dev Btwn Labs

0.553 lbf.in

0.582 lbf.in

Statistics based on 37 of 38 reporting participants

Summary Statistics in SI Units

Grand Means

13.242 dN.m

13.213 dN.m

Std Dev Btwn Labs

0.625 dN.m

0.657 dN.m

Statistics based on 37 of 38 reporting participants

Samples Y55-Y56: EPDM compound, batch #1 & Y57-Y58: EPDM compound, batch #2

Comments on assigned Data Flags for Test #689

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

Instrument Code Listing**689 MDR Vulcanization: Maximum Torque (lbf.in)**Instruments (as reported by the labs):

(MC) Alpha Technologies [Monsanto] MDR 2000 or 2000E

(MD) Alpha Tech. Rubber Process Analyzer (RPA 2000)

(TP) Tech Pro MDR model MDPT

(XX) Instrument model not specified by lab

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Y55-Y56 = 11.721 lbf.in

Grand Mean Sample Y57-Y58 = 11.694 lbf.in

