

Rubber Interlaboratory Testing Program

Summary Report #153- 3rd Qtr 07

[About the Rubber Program](#), [About CTS](#)

[Key for Web Summary Report](#)

<u>Analysis</u>	<u>Analysis Name</u>
605	Tensile Strength: Precured Rubber Samples
606	Ultimate Elongation: Precured Rubber Samples
607	Stress at 300% Elongation: Precured Samples
608	Stress at 100% Elongation: Precured Samples
620	Hardness (Type A): Precured Rubber Samples
630	Tensile Strength: Participant-Cured Rubber
631	Ultimate Elongation: Participant-Cured Samples
632	Tensile Stress at 300% Elongation: Lab-Cured
633	Tensile Stress at 100% Elongation: Lab-Cured
660	Mooney Viscosity (4-minute readings)
661	Mooney Viscosity (8-minute butyl readings)
669	ODR Vulcanization Charac.: Cure Time 10%
670	ODR Vulcanization Charac.: Scorch Time, Ts1
671	ODR Vulcanization Charac.: Cure Time 50%
672	ODR Vulcanization Charac.: Cure Time 90%
673	ODR Vulcanization Charac.: Minimum Torque
674	ODR Vulcanization Charac.: Maximum Torque
684	MDR Vulcanization Charac.: Cure Time 10%
685	MDR Vulcanization Charac.: Scorch Time, Ts1
686	MDR Vulcanization Charac.: Cure Time 50%
687	MDR Vulcanization Charac.: Cure Time 90%
688	MDR Vulcanization Charac.: Minimum Torque
689	MDR Vulcanization Charac.: Maximum Torque

ABOUT THE PROGRAM

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

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

ABOUT CTS

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

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Key for Web Summary Report (Page 1 of 2)

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

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

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

Common Problems Highlighted in Footnotes

1. **Extreme data** - The laboratory's results for one or both samples are so inconsistent with those of the other participants that the lab mean(s) fall outside the plot. (The data usually vary by more than three standard deviations from the grand mean.) The participant is advised to immediately review his data and/or testing procedure.
2. **Systematic bias** - The laboratory's results are either consistently high or low for both samples when compared to the other participants (the plotted point falls near the top or bottom of the ellipse). This indicates that the participant is performing the test with a constant bias. Causes of systematic errors include improper calibration, the particular make/model of equipment or a modification to the testing procedure.
3. **Inconsistency in testing between samples/sample sets** - The laboratory's results indicate that there are differences in the way the two samples tested (the plotted point falls to the side of the ellipse). This type of error may be attributed to the analyst deviating from the procedure when testing one of the samples or a material interaction occurrence with the instrument or room conditions. The inconsistency is reflected in the CPVs for the two samples, such as a +1.5 CPV for sample A and a -2.2 CPV for sample B. CTS also will specify if the laboratory's data for one sample are high/low compared to the other participants. If this inconsistency is slight, the lab's plotted point will be an * that falls on the edge of the ellipse.
4. **Inconsistency in testing within a sample** - The laboratory's within-lab standard deviation for a specified sample is high when compared to the other participants, often causing the lab's plotted point to fall outside of the ellipse.
5. **Data appeared to be off by a factor of # and was corrected by CTS** - In tests that involve computations, the results reported to CTS may be off by a factor. If this factor can easily be determined, CTS may correct the data and flag the participant. Occasionally CTS will correct a laboratory's results even though the data are still high or low when compared to the other participants. This is done so that the laboratory may be alerted to other possible errors in its testing procedure.
6. **Data for two samples (or two tests) appeared to be switched by the lab, and the error was corrected by CTS.**

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 C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
178UKM		2,928.0	-364.7	-2.04	2,935.0	-341.4	-1.89	ZZ
1UP55G		3,384.5	91.8	0.51	3,374.0	97.7	0.54	ZZ
279G16		3,060.3	-232.4	-1.30	3,125.6	-150.7	-0.84	ZZ
291G12		3,325.0	32.4	0.18	3,334.9	58.6	0.32	ZZ
2GP55Y		3,373.5	80.8	0.45	3,356.5	80.2	0.44	ZZ
2NCTZ4		3,111.5	-181.2	-1.01	3,091.0	-185.3	-1.03	ZZ
3GY5AK		3,339.5	46.8	0.26	3,248.9	-27.4	-0.15	ZZ
3XL2CU		3,364.0	71.3	0.40	3,301.0	24.7	0.14	ZZ
45K3VD		3,435.0	142.3	0.80	3,491.5	215.2	1.19	ZZ
4H6M13		3,352.5	59.8	0.33	3,362.5	86.2	0.48	ZZ
4HDYCM		3,347.0	54.3	0.30	3,313.0	36.7	0.20	ZZ
4MQ124	*	3,540.0	247.3	1.39	3,664.0	387.7	2.15	ZZ
4UL43E		3,528.9	236.2	1.32	3,498.7	222.4	1.23	ZZ
53V7S6		3,067.5	-225.2	-1.26	3,072.0	-204.3	-1.13	ZZ
58H48F		3,508.5	215.8	1.21	3,558.0	281.7	1.56	ZZ
5KZPPW		2,990.0	-302.7	-1.70	3,080.0	-196.3	-1.09	ZZ
5VMNUU		2,942.0	-350.7	-1.96	2,934.5	-341.8	-1.90	ZZ
6EZCBQ		3,364.0	71.3	0.40	3,246.3	-30.0	-0.17	ZZ
6FSL81		3,335.9	43.2	0.24	3,451.9	175.6	0.97	ZZ
6XD8SW		3,094.5	-198.2	-1.11	2,965.5	-310.8	-1.72	ZZ
7RFS5X		3,435.5	142.8	0.80	3,499.0	222.7	1.23	ZZ
82TWPL		3,615.0	322.3	1.81	3,649.5	373.2	2.07	ZZ
8WX72M		3,397.5	104.8	0.59	3,387.5	111.2	0.62	ZZ
9LR9FJ		3,357.7	65.0	0.36	3,292.4	16.1	0.09	ZZ
A4FF29		3,452.7	160.0	0.90	3,472.2	195.9	1.09	ZZ
AQ96YE		3,416.0	123.3	0.69	3,437.0	160.7	0.89	ZZ
AVKKW		3,483.0	190.3	1.07	3,394.5	118.2	0.66	ZZ
B1SEH7	*	3,122.5	-170.2	-0.95	2,973.5	-302.8	-1.68	ZZ
B7LNAY		3,277.4	-15.3	-0.09	3,278.2	1.8	0.01	ZZ
B8DP9V		3,186.5	-106.2	-0.59	3,154.0	-122.3	-0.68	ZZ
B8KH2P	X	2,683.2	-609.5	-3.41	2,808.7	-467.6	-2.59	ZZ
BHT4TJ		3,355.5	62.8	0.35	3,314.0	37.7	0.21	ZZ
C2FAHL		3,100.0	-192.7	-1.08	3,028.5	-247.8	-1.37	ZZ
C3RHL8		3,293.8	1.2	0.01	3,222.8	-53.5	-0.30	ZZ
C6SMEF		3,617.6	324.9	1.82	3,560.0	283.7	1.57	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CH4LVM		3,254.5	-38.2	-0.21	3,249.5	-26.8	-0.15	ZZ
CHN9MH		3,170.0	-122.7	-0.69	3,132.0	-144.3	-0.80	ZZ
CMTNK9		3,581.0	288.3	1.61	3,526.5	250.2	1.39	ZZ
CYDVVA		3,225.5	-67.2	-0.38	3,193.5	-82.8	-0.46	ZZ
D2YFGA		3,233.6	-59.0	-0.33	3,261.9	-14.4	-0.08	ZZ
D3ST1B		2,865.0	-427.7	-2.40	2,829.5	-446.8	-2.48	ZZ
D5WFH		3,239.5	-53.2	-0.30	3,193.5	-82.8	-0.46	ZZ
D8T6FL	X	356.0	-2,936.7	-16.45	354.0	-2,922.3	-16.20	ZZ
DLNRBX		3,122.0	-170.7	-0.96	3,061.5	-214.8	-1.19	ZZ
DRUMR		3,209.0	-83.7	-0.47	3,181.4	-94.9	-0.53	ZZ
DSEVME		3,502.5	209.8	1.18	3,445.5	169.2	0.94	ZZ
ETGB2V		3,225.5	-67.2	-0.38	3,232.5	-43.8	-0.24	ZZ
EZK23V		3,313.4	20.7	0.12	3,311.2	34.9	0.19	ZZ
F66QH4		3,263.4	-29.3	-0.16	3,263.4	-12.9	-0.07	ZZ
FJY1FA		3,316.0	23.3	0.13	3,256.0	-20.3	-0.11	ZZ
FSDS97		3,270.0	-22.7	-0.13	3,320.0	43.7	0.24	ZZ
G92BS1		3,176.0	-116.7	-0.65	3,224.5	-51.8	-0.29	ZZ
GYAUNE		3,282.0	-10.7	-0.06	3,326.0	49.7	0.28	ZZ
H2Z1ZT		3,103.1	-189.6	-1.06	3,085.0	-191.3	-1.06	ZZ
HSUTKU		3,382.0	89.3	0.50	3,368.5	92.2	0.51	ZZ
HT6SE3		3,091.5	-201.2	-1.13	3,057.5	-218.8	-1.21	ZZ
HYL1KF		3,275.5	-17.2	-0.10	3,401.5	125.2	0.69	ZZ
JDV4L1		3,032.0	-260.7	-1.46	3,106.0	-170.3	-0.94	ZZ
JP52SN		3,527.3	234.7	1.31	3,467.2	190.9	1.06	ZZ
JUWL3D		3,250.0	-42.7	-0.24	3,190.0	-86.3	-0.48	ZZ
K4CY8N		3,230.9	-61.8	-0.35	3,240.7	-35.6	-0.20	ZZ
KBGQ6L		3,662.0	369.3	2.07	3,556.0	279.7	1.55	ZZ
KBH129		3,332.5	39.8	0.22	3,331.5	55.2	0.31	ZZ
KJZHNG		3,223.0	-69.7	-0.39	3,195.5	-80.8	-0.45	ZZ
KRQM35		3,013.0	-279.7	-1.57	3,016.0	-260.3	-1.44	ZZ
KT4END		3,457.5	164.8	0.92	3,345.5	69.2	0.38	ZZ
KWJMJL		3,254.0	-38.7	-0.22	3,191.4	-84.9	-0.47	ZZ
L8AMYV		2,989.0	-303.7	-1.70	2,995.5	-280.8	-1.56	ZZ
LCL7QU		3,285.5	-7.2	-0.04	3,205.0	-71.3	-0.40	ZZ
LNZ749		3,171.0	-121.7	-0.68	3,243.1	-33.2	-0.18	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
LVK9KC		2,987.0	-305.7	-1.71	2,967.0	-309.3	-1.71	ZZ
M2DLG		3,436.0	143.3	0.80	3,451.5	175.2	0.97	ZZ
MBN3SC		3,205.0	-87.7	-0.49	3,101.0	-175.3	-0.97	ZZ
MJHBT5		3,412.2	119.5	0.67	3,315.1	38.8	0.22	ZZ
MLJJVU		3,530.0	237.3	1.33	3,530.0	253.7	1.41	ZZ
MS494Q		3,270.0	-22.7	-0.13	3,194.0	-82.3	-0.46	ZZ
NG48HQ		3,609.0	316.3	1.77	3,614.0	337.7	1.87	ZZ
NMJNGH		3,129.0	-163.7	-0.92	3,246.6	-29.8	-0.16	ZZ
NPFMZL	X	4,795.0	1,502.3	8.41	4,821.5	1,545.2	8.57	ZZ
NR7NZH		3,493.0	200.3	1.12	3,599.5	323.2	1.79	ZZ
NSKWW		3,458.0	165.3	0.93	3,524.0	247.7	1.37	ZZ
PUPKDE		3,411.0	118.3	0.66	3,398.0	121.7	0.67	ZZ
PZX1N3		3,538.0	245.3	1.37	3,522.5	246.2	1.37	ZZ
QEHLCG		3,507.5	214.8	1.20	3,451.0	174.7	0.97	ZZ
R2HZ5B		3,164.8	-127.9	-0.72	3,098.0	-178.3	-0.99	ZZ
R9BM4G		3,014.5	-278.2	-1.56	3,024.0	-252.3	-1.40	ZZ
RCD5Y9		3,434.5	141.8	0.79	3,288.0	11.7	0.06	ZZ
RKEKNG		3,344.5	51.8	0.29	3,293.5	17.2	0.10	ZZ
RS211T		2,942.5	-350.2	-1.96	2,882.5	-393.8	-2.18	ZZ
RYUN4K		3,116.9	-175.8	-0.98	3,074.1	-202.2	-1.12	ZZ
SJSXNT		3,248.9	-43.8	-0.25	3,161.9	-114.5	-0.63	ZZ
SNZH4K		3,367.5	74.8	0.42	3,342.5	66.2	0.37	ZZ
SR46NG		3,412.0	119.4	0.67	3,480.9	204.6	1.13	ZZ
SW56GC		3,081.4	-211.3	-1.18	3,151.0	-125.3	-0.69	ZZ
T46ASV		3,314.1	21.5	0.12	3,321.4	45.1	0.25	ZZ
T8Z518		3,267.5	-25.2	-0.14	3,343.5	67.2	0.37	ZZ
TM58RM		3,406.5	113.8	0.64	3,350.3	74.0	0.41	ZZ
TME7FB		3,478.5	185.8	1.04	3,380.0	103.7	0.57	ZZ
U3EA7A		3,526.0	233.3	1.31	3,406.5	130.2	0.72	ZZ
U9GE31		3,227.1	-65.6	-0.37	3,285.1	8.8	0.05	ZZ
UX2TWE		3,626.0	333.3	1.87	3,531.7	255.4	1.42	ZZ
VRPWM4		3,481.2	188.5	1.06	3,379.4	103.0	0.57	ZZ
VW6N27		3,082.1	-210.6	-1.18	3,041.5	-234.8	-1.30	ZZ
W5VB8Z		3,399.4	106.7	0.60	3,413.6	137.3	0.76	ZZ
WRULN		3,271.4	-21.3	-0.12	3,214.1	-62.2	-0.35	ZZ

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XKNBU7		3,401.0	108.3	0.61	3,445.0	168.7	0.94	ZZ
Y651MW	X	2,872.8	-419.9	-2.35	2,738.0	-538.3	-2.98	ZZ
YDFBNA		3,105.5	-187.2	-1.05	3,107.5	-168.8	-0.94	ZZ
YJ61GF		3,467.5	174.8	0.98	3,447.0	170.7	0.95	ZZ
YL8KZ1		3,381.0	88.3	0.49	3,374.0	97.7	0.54	ZZ
YNT172		3,166.5	-126.2	-0.71	3,181.0	-95.3	-0.53	ZZ
YPA2BH		3,243.5	-49.2	-0.28	3,207.9	-68.5	-0.38	ZZ
YSFPTT		3,525.5	232.8	1.30	3,446.5	170.2	0.94	ZZ
YXJ2PH		3,429.5	136.8	0.77	3,420.5	144.2	0.80	ZZ
YZ62M8		3,167.4	-125.3	-0.70	3,126.6	-149.7	-0.83	ZZ
YZ7P4S		3,391.5	98.8	0.55	3,358.0	81.7	0.45	ZZ
Z3VR27		3,322.8	30.2	0.17	3,271.4	-5.0	-0.03	ZZ
Z996EU		3,017.0	-275.7	-1.54	2,947.1	-329.3	-1.83	ZZ
ZCGEQZ		3,113.5	-179.2	-1.00	3,216.0	-60.3	-0.33	ZZ
ZZ2ZEF		2,995.0	-297.7	-1.67	3,053.5	-222.8	-1.24	ZZ

Summary Statistics	
Grand Means	
3,292.68 psi	3,276.31 psi
Std Dev Btwn Labs	
178.55 psi	180.36 psi
Statistics based on 116 of 120 reporting participants	

Summary Statistics in SI Units	
Grand Means	
22.702 MPa	22.59 MPa
Std Dev Btwn Labs	
1.231 MPa	1.24 MPa
Statistics based on 116 of 120 reporting participants	

Samples C71-C72: Polyisoprene compound, batch #1 & C73-C74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #605

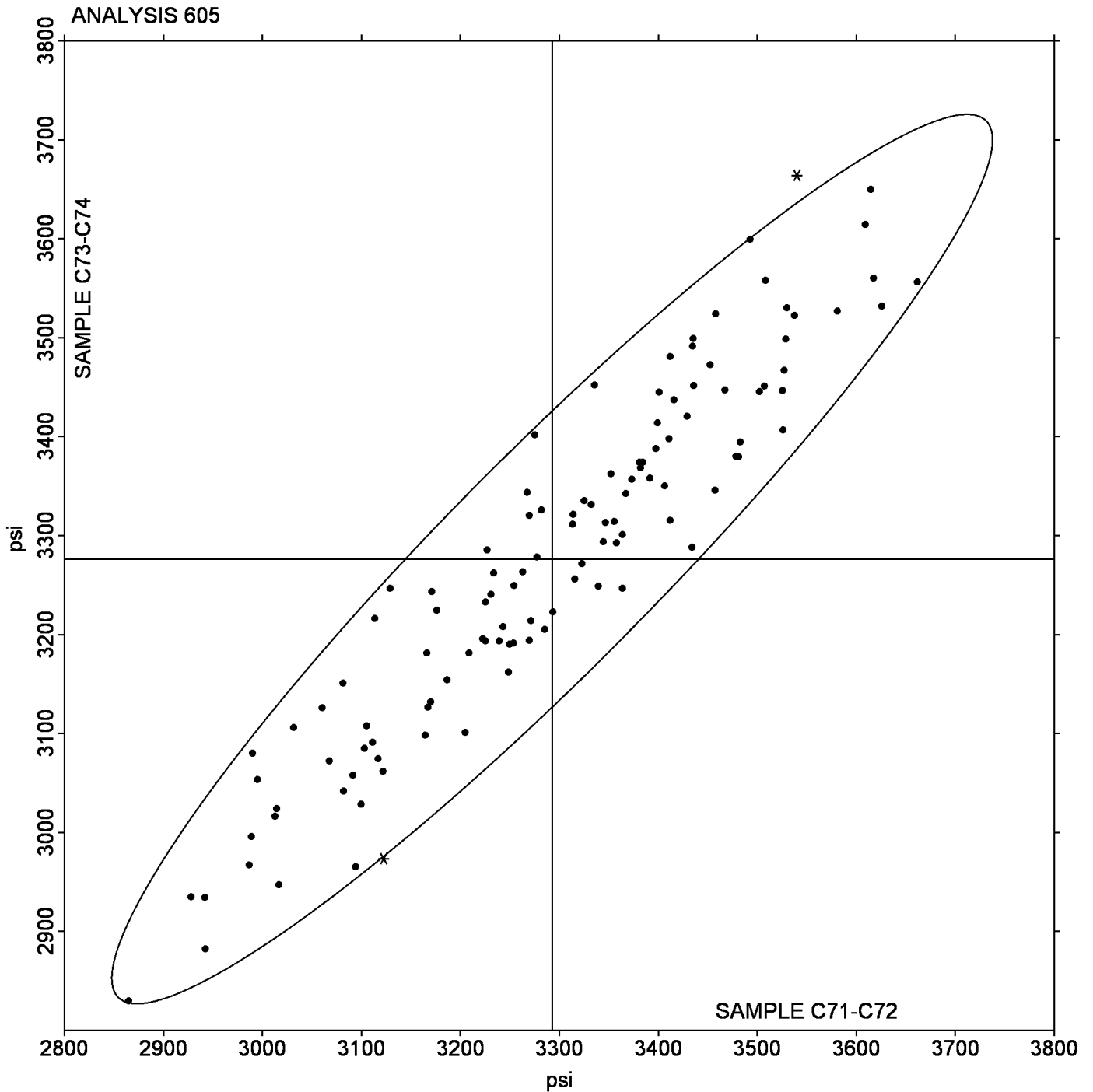
- B8KH2P (X) - Inconsistency in testing between Sample sets. Data for Sample sets C71-C72 are low.
- D8T6FL (X) - Extreme data for both Sample sets. Data appear to be off by a factor of 10.
- NPFMZL (X) - Data for all Samples are high.
- Y651MW (X) - Inconsistency in testing between Sample sets. Data for Sample sets C73-C74 are low.

Analysis 605

Tensile Strength (psi)

Grand Mean Sample C71-C72 = 3,292.68 psi

Grand Mean Sample C73-C74 = 3,276.31 psi



Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
148JPM		512.5	-50.4	-1.88	523.0	-40.3	-1.49	ZZ
173RHV		576.0	13.2	0.49	568.2	4.9	0.18	ZZ
1CF7DE		571.0	8.1	0.30	571.0	7.7	0.29	ZZ
1NXJSH		555.0	-7.9	-0.29	545.0	-18.3	-0.68	ZZ
1XGLPY	*	520.0	-42.9	-1.60	542.0	-21.3	-0.79	ZZ
1Y4QZ9		563.5	0.6	0.02	555.5	-7.8	-0.29	ZZ
26B9FE		560.5	-2.4	-0.09	553.0	-10.3	-0.38	ZZ
26G2QF		608.0	45.1	1.69	614.0	50.7	1.88	ZZ
2EHSG5		593.0	30.1	1.13	595.5	32.2	1.19	ZZ
2NAJ54		539.5	-23.4	-0.87	540.0	-23.3	-0.86	ZZ
2PF1U8		552.1	-10.8	-0.40	553.6	-9.7	-0.36	ZZ
433CUW		574.5	11.6	0.44	586.5	23.2	0.86	ZZ
4HPDAN		593.1	30.3	1.13	586.7	23.4	0.86	ZZ
4N97RZ		569.4	6.5	0.24	565.4	2.1	0.08	ZZ
4WHTSN		550.5	-12.4	-0.46	551.5	-11.8	-0.44	ZZ
5GCK5K		580.5	17.6	0.66	580.5	17.2	0.64	ZZ
66V1LN		589.8	26.9	1.01	579.5	16.2	0.60	ZZ
6AALDV		568.0	5.1	0.19	569.5	6.2	0.23	ZZ
78TGYW		563.0	0.1	0.01	564.0	0.7	0.03	ZZ
7J787L		585.0	22.1	0.83	578.5	15.2	0.56	ZZ
7LPN6S		602.6	39.8	1.49	605.7	42.4	1.57	ZZ
82FU6Y	*	487.4	-75.5	-2.82	499.9	-63.4	-2.35	ZZ
8A16YC		555.0	-7.9	-0.29	555.0	-8.3	-0.31	ZZ
8EWPAJ		560.0	-2.9	-0.11	554.0	-9.3	-0.34	ZZ
8FRZ1Y		571.0	8.1	0.30	567.0	3.7	0.14	ZZ
92RGX6		538.0	-24.9	-0.93	534.0	-29.3	-1.08	ZZ
9C7U6F		573.5	10.6	0.40	578.0	14.7	0.54	ZZ
9GRYKJ		580.5	17.6	0.66	580.5	17.2	0.64	ZZ
9KQ21R		553.0	-9.9	-0.37	555.5	-7.8	-0.29	ZZ
9P24JP	*	491.0	-71.9	-2.69	499.0	-64.3	-2.38	ZZ
9PY2RH		591.5	28.6	1.07	578.0	14.7	0.54	ZZ
9VYT8E		546.0	-16.9	-0.63	548.0	-15.3	-0.57	ZZ
A5DCDV		559.5	-3.4	-0.13	549.5	-13.8	-0.51	ZZ
A7HMBD		573.5	10.6	0.40	591.0	27.7	1.03	ZZ
A92HWT	X	469.0	-93.9	-3.51	468.0	-95.3	-3.53	ZZ

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
AQRAES		562.0	-0.9	-0.03	566.0	2.7	0.10	ZZ
AX85P9	X	559.0	-3.9	-0.14	600.0	36.7	1.36	ZZ
B3DKYC		573.5	10.6	0.40	565.0	1.7	0.06	ZZ
B4HYYH		540.0	-22.9	-0.85	540.0	-23.3	-0.86	ZZ
B9PN44		610.0	47.1	1.76	618.0	54.7	2.02	ZZ
BEMX1Q	X	612.0	49.1	1.84	585.5	22.2	0.82	ZZ
BG4Y6R		584.5	21.6	0.81	582.0	18.7	0.69	ZZ
BTX5FP		511.0	-51.9	-1.94	511.0	-52.3	-1.94	ZZ
BXMGPL		555.5	-7.4	-0.27	566.5	3.2	0.12	ZZ
C2ZYZF		557.5	-5.4	-0.20	562.5	-0.8	-0.03	ZZ
CRPV33	X	915.0	352.1	13.16	926.5	363.2	13.44	ZZ
CVTY95		572.0	9.1	0.34	574.5	11.2	0.41	ZZ
DG8FYT		584.0	21.1	0.79	590.0	26.7	0.99	ZZ
DGDNK		564.0	1.1	0.04	568.0	4.7	0.17	ZZ
DGTWQ		587.5	24.6	0.92	593.5	30.2	1.12	ZZ
DGUPNQ		597.5	34.6	1.30	602.5	39.2	1.45	ZZ
DQKJC7	*	565.0	2.1	0.08	592.0	28.7	1.06	ZZ
DS6AFX		564.5	1.6	0.06	568.0	4.7	0.17	ZZ
EEAZ6B		587.5	24.6	0.92	575.0	11.7	0.43	ZZ
EG38NK		565.5	2.6	0.10	553.5	-9.8	-0.36	ZZ
ENUG6J		537.5	-25.4	-0.95	523.5	-39.8	-1.47	ZZ
ETNMS1		525.0	-37.9	-1.42	521.5	-41.8	-1.55	ZZ
EYQN1G		596.0	33.1	1.24	600.5	37.2	1.38	ZZ
F54YBV		557.0	-5.9	-0.22	540.0	-23.3	-0.86	ZZ
F6V647		557.5	-5.4	-0.20	552.5	-10.8	-0.40	ZZ
FC1B8X		601.5	38.6	1.44	598.5	35.2	1.30	ZZ
GBN2VR		588.0	25.1	0.94	598.5	35.2	1.30	ZZ
GQ8GYQ		614.0	51.1	1.91	615.0	51.7	1.91	ZZ
HLFZQB		570.5	7.6	0.29	579.5	16.2	0.60	ZZ
HVY9QJ		529.5	-33.4	-1.25	532.0	-31.3	-1.16	ZZ
J1APH2		531.0	-31.9	-1.19	544.0	-19.3	-0.71	ZZ
J9GQDL		552.0	-10.9	-0.41	554.5	-8.8	-0.33	ZZ
JSTC2E		594.5	31.6	1.18	589.0	25.7	0.95	ZZ
JX84TM		552.5	-10.4	-0.39	552.5	-10.8	-0.40	ZZ
JZ6YKC		586.0	23.1	0.87	584.5	21.2	0.78	ZZ

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
K2FPXS		550.5	-12.4	-0.46	542.5	-20.8	-0.77	ZZ
K9P8XQ		560.0	-2.9	-0.11	559.5	-3.8	-0.14	ZZ
KQH8WZ		588.5	25.6	0.96	579.0	15.7	0.58	ZZ
LBVC2K		534.0	-28.9	-1.08	532.0	-31.3	-1.16	ZZ
LHELG4		570.0	7.1	0.27	570.0	6.7	0.25	ZZ
LQP9V3		556.5	-6.4	-0.24	563.5	0.2	0.01	ZZ
MA5C76		562.0	-0.9	-0.03	567.5	4.2	0.16	ZZ
NC7AP7		541.5	-21.4	-0.80	537.5	-25.8	-0.95	ZZ
NKYEAA	X	225.5	-337.4	-12.61	219.5	-343.8	-12.72	ZZ
NTDGV		594.7	31.8	1.19	587.5	24.2	0.90	ZZ
NYQXJY		615.0	52.1	1.95	613.8	50.5	1.87	ZZ
PELT24		562.0	-0.9	-0.03	551.5	-11.8	-0.44	ZZ
PM84NQ	X	466.0	-96.9	-3.62	482.0	-81.3	-3.01	ZZ
PUQZGK	X	582.5	19.6	0.73	613.5	50.2	1.86	ZZ
QEP3Z1	X	638.5	75.6	2.83	667.0	103.7	3.84	ZZ
QHD1GA		552.5	-10.4	-0.39	537.0	-26.3	-0.97	ZZ
R2QWZ9		539.0	-23.9	-0.89	535.5	-27.8	-1.03	ZZ
R3CPKQ		577.0	14.1	0.53	575.3	12.0	0.44	ZZ
RAEKVB	X	625.5	62.6	2.34	648.5	85.2	3.15	ZZ
RALS6K		566.5	3.6	0.14	560.5	-2.8	-0.10	ZZ
RP679J		542.0	-20.9	-0.78	543.5	-19.8	-0.73	ZZ
RRS1X7		514.5	-48.4	-1.81	520.5	-42.8	-1.58	ZZ
S9JJ8K		536.0	-26.9	-1.00	556.0	-7.3	-0.27	ZZ
SJNQV7		559.0	-3.9	-0.14	556.0	-7.3	-0.27	ZZ
SV2Y2T		566.0	3.1	0.12	566.5	3.2	0.12	ZZ
TB7MQC		535.0	-27.9	-1.04	524.0	-39.3	-1.45	ZZ
TEHF8H		592.5	29.6	1.11	593.0	29.7	1.10	ZZ
TF9F7E		549.5	-13.4	-0.50	564.0	0.7	0.03	ZZ
TFZDUF		609.8	46.9	1.75	602.9	39.6	1.47	ZZ
TPCQ5F	*	593.7	30.9	1.15	617.1	53.8	1.99	ZZ
TQUB33		539.5	-23.4	-0.87	551.5	-11.8	-0.44	ZZ
UELKVE		525.0	-37.9	-1.42	529.5	-33.8	-1.25	ZZ
ULDBDE		545.5	-17.4	-0.65	551.5	-11.8	-0.44	ZZ
UMUVB		587.5	24.6	0.92	604.0	40.7	1.51	ZZ
UQKHGT		556.0	-6.9	-0.26	550.5	-12.8	-0.47	ZZ

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
V3TS8U		538.6	-24.3	-0.91	547.8	-15.5	-0.58	ZZ
VPYFNX		580.0	17.1	0.64	567.5	4.2	0.16	ZZ
VVP8BP		533.5	-29.4	-1.10	537.0	-26.3	-0.97	ZZ
W2GVEF		535.0	-27.9	-1.04	528.5	-34.8	-1.29	ZZ
XBXNY5		545.0	-17.9	-0.67	540.0	-23.3	-0.86	ZZ
XSTGR4		574.5	11.6	0.44	558.5	-4.8	-0.18	ZZ
XTC6KA		571.5	8.6	0.32	563.5	0.2	0.01	ZZ
XU14HA		564.0	1.1	0.04	573.0	9.7	0.36	ZZ
YZ6V9Z		560.0	-2.9	-0.11	563.0	-0.3	-0.01	ZZ
ZCR4FK	X	688.5	125.6	4.70	714.0	150.7	5.58	ZZ
ZTNPHC		597.5	34.6	1.30	593.5	30.2	1.12	ZZ
ZZ4FHL		599.0	36.1	1.35	605.5	42.2	1.56	ZZ
ZZJ8BW	*	487.3	-75.6	-2.83	483.0	-80.3	-2.97	ZZ

Summary Statistics	
Grand Means	
562.85 percent	563.29 percent
Std Dev Btwn Labs	
26.75 percent	27.02 percent
Statistics based on 108 of 118 reporting participants	

Samples C71-C72: Polyisoprene compound, batch #1 & C73-C74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #606

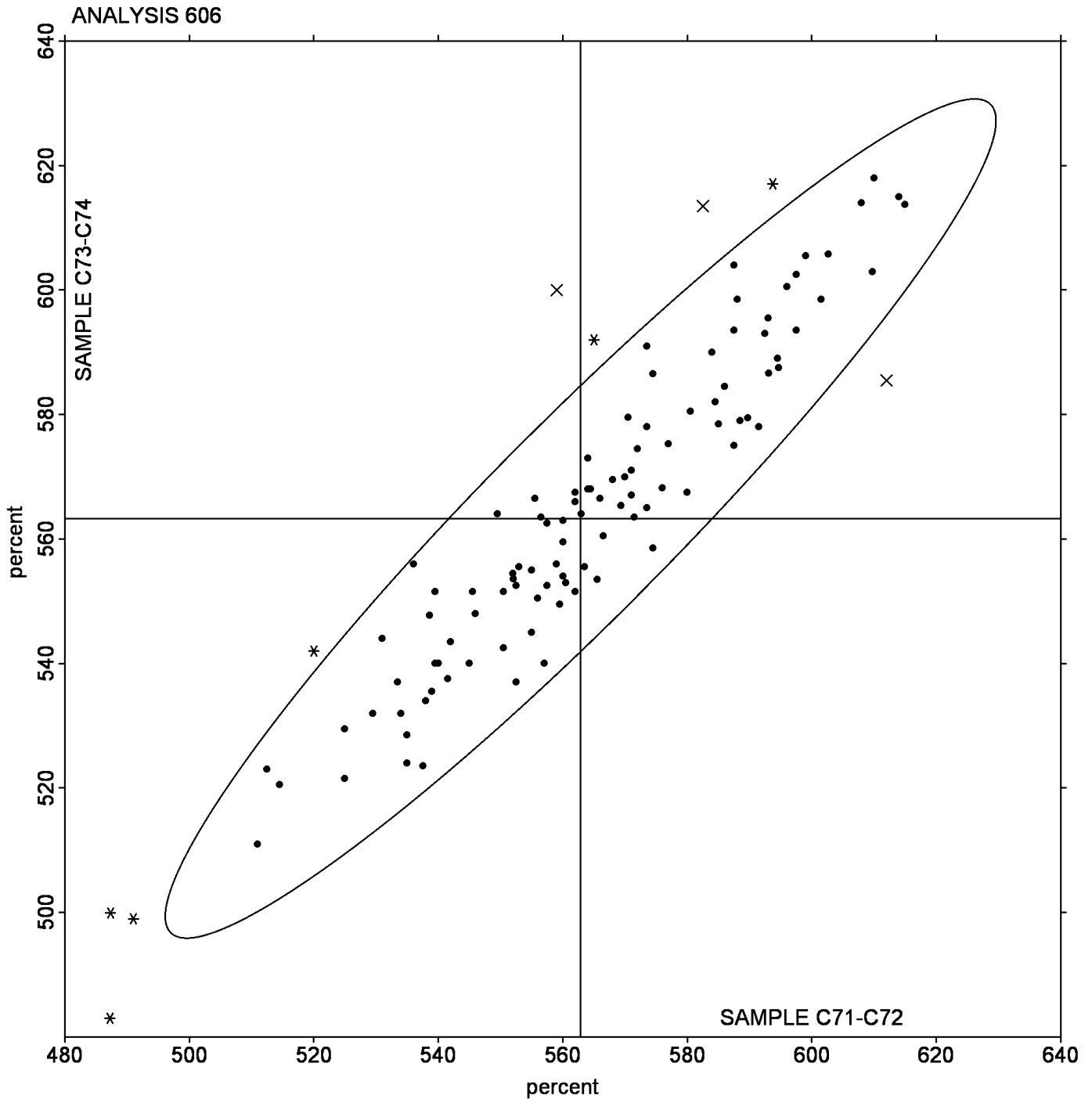
- A92HWT (X) - Data for all Samples are low. Possible Systematic Error.
- AX85P9 (X) - Inconsistency in testing between Sample sets.
- BEMX1Q (X) - Inconsistency in testing between Sample sets.
- CRPV33 (X) - Data for all Samples are low.
- NKYEAA (X) - Data for all Samples are low.
- PM84NQ (X) - Data for all Samples are low. Possible Systematic Error.
- PUQZGK (X) - Inconsistency in testing between Sample sets.
- QEP3Z1 (X) - Data for all Samples are high.
- RAEKVB (X) - Inconsistency in testing between Sample sets. Data for Sample Set C74 are high.
- ZCR4FK (X) - Data for all Samples are high. Also Inconsistent in testing within Sample Sets C71-C72.

Analysis 606

Ultimate Elongation (percent)

Grand Mean Sample C71-C72 = 562.85 percent

Grand Mean Sample C73-C74 = 563.29 percent



Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1E3WMY		1,235.0	41.8	0.63	1,294.5	114.3	1.57	ZZ
1NNYDL		1,175.0	-18.2	-0.27	1,190.0	9.8	0.13	ZZ
1UJ95C		1,138.0	-55.2	-0.83	1,136.5	-43.7	-0.60	ZZ
2GUCRR		1,182.1	-11.1	-0.17	1,182.1	1.9	0.03	ZZ
2P6J4X	*	1,039.9	-153.2	-2.31	1,068.9	-111.3	-1.53	ZZ
2R784X		1,237.5	44.3	0.67	1,251.0	70.8	0.97	ZZ
2T2ABU		1,242.0	48.8	0.74	1,230.5	50.3	0.69	ZZ
2YV5H8		1,238.6	45.5	0.69	1,223.4	43.2	0.59	ZZ
34M4TN		1,078.0	-115.2	-1.74	1,053.0	-127.2	-1.75	ZZ
37HN71		1,174.0	-19.2	-0.29	1,176.0	-4.2	-0.06	ZZ
3B3PUE		1,262.0	68.8	1.04	1,219.0	38.8	0.53	ZZ
3JEYT7		1,177.5	-15.7	-0.24	1,135.5	-44.7	-0.61	ZZ
3L1SGV		1,248.0	54.8	0.83	1,267.0	86.8	1.19	ZZ
3NFXMY		1,187.0	-6.2	-0.09	1,182.0	1.8	0.02	ZZ
3P7NGW		1,102.3	-90.9	-1.37	1,119.7	-60.5	-0.83	ZZ
3TCX5L		1,236.9	43.7	0.66	1,229.3	49.0	0.67	ZZ
43QRL6		1,218.5	25.3	0.38	1,202.0	21.8	0.30	ZZ
4E4T1C		1,115.0	-78.2	-1.18	1,110.0	-70.2	-0.96	ZZ
515W4Y	X	1,576.6	383.4	5.78	1,556.3	376.1	5.17	ZZ
54WS7K	*	1,152.0	-41.2	-0.62	1,043.0	-137.2	-1.89	ZZ
5A85D4		1,084.5	-108.7	-1.64	1,130.1	-50.1	-0.69	ZZ
5J5GST	X	26.0	-1,167.2	-17.60	25.0	-1,155.2	-15.87	ZZ
5M8SND		1,169.0	-24.2	-0.36	1,176.3	-3.9	-0.05	ZZ
63DAGJ		1,270.5	77.4	1.17	1,266.2	86.0	1.18	ZZ
6GRUM5		1,124.0	-69.2	-1.04	1,123.0	-57.2	-0.79	ZZ
78GUM2		1,190.0	-3.2	-0.05	1,205.5	25.3	0.35	ZZ
7BWWH		1,190.0	-3.1	-0.05	1,229.9	49.7	0.68	ZZ
89WAW		1,111.5	-81.7	-1.23	1,135.0	-45.2	-0.62	ZZ
8B8C9S		1,147.5	-45.7	-0.69	1,151.5	-28.7	-0.39	ZZ
8H1VTH		1,188.0	-5.2	-0.08	1,234.5	54.3	0.75	ZZ
95AVMT		1,165.0	-28.2	-0.42	1,102.0	-78.2	-1.07	ZZ
95T93Y		1,189.3	-3.9	-0.06	1,138.6	-41.6	-0.57	ZZ
A9STAE		1,090.4	-102.8	-1.55	1,096.1	-84.1	-1.16	ZZ
AQYTKP		1,201.0	7.8	0.12	1,219.0	38.8	0.53	ZZ
BP9VPA		1,255.5	62.3	0.94	1,226.0	45.8	0.63	ZZ

Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BWBF3M		1,168.0	-25.2	-0.38	1,129.0	-51.2	-0.70	ZZ
CKF59R		1,327.0	133.8	2.02	1,348.5	168.3	2.31	ZZ
D2D882		1,203.9	10.7	0.16	1,185.8	5.6	0.08	ZZ
D3RC4J	*	1,031.2	-162.0	-2.44	1,059.6	-120.6	-1.66	ZZ
DM8SRR		1,165.0	-28.2	-0.42	1,192.5	12.3	0.17	ZZ
E1NDK9		1,279.0	85.8	1.29	1,245.5	65.3	0.90	ZZ
E42P77		1,077.5	-115.7	-1.74	1,087.5	-92.7	-1.27	ZZ
E62GMS		1,230.7	37.5	0.57	1,174.8	-5.4	-0.07	ZZ
FP8BEW		1,224.5	31.3	0.47	1,212.0	31.8	0.44	ZZ
GGWRM		1,197.0	3.8	0.06	1,205.5	25.3	0.35	ZZ
GHRJBJ		1,293.0	99.8	1.51	1,309.0	128.8	1.77	ZZ
GKSL41		1,085.0	-108.2	-1.63	1,026.5	-153.7	-2.11	ZZ
GNFLBG		1,223.0	29.8	0.45	1,123.0	-57.2	-0.79	ZZ
GSM9KY		1,236.0	42.8	0.65	1,236.5	56.3	0.77	ZZ
GY1SA6		1,141.0	-52.2	-0.79	1,140.0	-40.2	-0.55	ZZ
GYPASE		1,272.5	79.3	1.20	1,179.5	-0.7	-0.01	ZZ
H7WGV	X	411.4	-781.8	-11.79	383.1	-797.1	-10.95	ZZ
HEBRAN		1,262.0	68.8	1.04	1,258.0	77.8	1.07	ZZ
HU9TXM		1,225.0	31.8	0.48	1,210.0	29.8	0.41	ZZ
HYASGS		1,235.5	42.3	0.64	1,232.0	51.8	0.71	ZZ
JZ8M8H		1,134.5	-58.7	-0.88	1,168.5	-11.7	-0.16	ZZ
KFHNY P	*	1,166.5	-26.7	-0.40	1,047.5	-132.7	-1.82	ZZ
KJUCLZ		1,172.5	-20.7	-0.31	1,112.0	-68.2	-0.94	ZZ
LD5YTC		1,205.5	12.3	0.19	1,227.0	46.8	0.64	ZZ
LHGS2Q		1,170.0	-23.2	-0.35	1,132.0	-48.2	-0.66	ZZ
LMQYZ3		1,217.0	23.8	0.36	1,219.5	39.3	0.54	ZZ
LQMZPR		1,200.2	7.0	0.11	1,203.1	22.9	0.31	ZZ
LS2J89		1,151.1	-42.1	-0.63	1,124.7	-55.6	-0.76	ZZ
LW8KM		1,165.5	-27.7	-0.42	1,199.0	18.8	0.26	ZZ
LY3GSC		1,218.1	24.9	0.38	1,234.9	54.7	0.75	ZZ
LZ7WHK		1,232.5	39.3	0.59	1,280.5	100.3	1.38	ZZ
LZHW8Z		1,237.0	43.8	0.66	1,195.5	15.3	0.21	ZZ
M2R6YB		1,131.7	-61.4	-0.93	1,099.1	-81.1	-1.11	ZZ
MDV3L5		1,232.5	39.3	0.59	1,254.3	74.0	1.02	ZZ
MQC4J5		1,194.5	1.3	0.02	1,178.5	-1.7	-0.02	ZZ

Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
N6LUEN		1,238.0	44.8	0.68	1,187.0	6.8	0.09	ZZ
N8CVDK		1,240.1	46.9	0.71	1,232.8	52.6	0.72	ZZ
NKZ3YF	*	1,362.5	169.3	2.55	1,328.0	147.8	2.03	ZZ
NZS2JN		1,116.0	-77.2	-1.16	1,130.0	-50.2	-0.69	ZZ
P2BDVY		1,173.5	-19.7	-0.30	1,159.0	-21.2	-0.29	ZZ
PPY6TD		1,163.0	-30.2	-0.45	1,132.5	-47.7	-0.66	ZZ
PSRZ3U		1,134.0	-59.2	-0.89	1,147.5	-32.7	-0.45	ZZ
Q2TLL		1,282.5	89.3	1.35	1,265.0	84.8	1.16	ZZ
QK5F7T		1,163.2	-30.0	-0.45	1,142.9	-37.3	-0.51	ZZ
RAA66P		1,200.0	6.8	0.10	1,153.0	-27.2	-0.37	ZZ
RF8BUE		1,278.7	85.5	1.29	1,284.8	104.6	1.44	ZZ
RGZR44		1,096.3	-96.9	-1.46	1,071.8	-108.5	-1.49	ZZ
RVA5XF	X	1,496.5	303.3	4.57	1,371.1	190.9	2.62	ZZ
S6Z9G7		1,191.0	-2.2	-0.03	1,180.0	-0.2	0.00	ZZ
SBFNEE		1,316.0	122.8	1.85	1,345.5	165.3	2.27	ZZ
SVPR7H		1,311.5	118.3	1.78	1,252.0	71.8	0.99	ZZ
T4NMA1		1,225.6	32.4	0.49	1,190.3	10.0	0.14	ZZ
TBM8ZE		1,317.0	123.8	1.87	1,328.6	148.4	2.04	ZZ
TC9XW	X	1,400.0	206.8	3.12	1,323.5	143.3	1.97	ZZ
TGJ9G2		1,221.0	27.8	0.42	1,138.5	-41.7	-0.57	ZZ
TH745P		1,253.5	60.3	0.91	1,246.5	66.3	0.91	ZZ
TKG9HD		1,081.0	-112.2	-1.69	1,062.5	-117.7	-1.62	ZZ
TN6QKD		1,141.5	-51.7	-0.78	1,100.5	-79.7	-1.10	ZZ
U3BXVU		1,223.9	30.7	0.46	1,176.9	-3.4	-0.05	ZZ
VAD1KY		1,191.0	-2.2	-0.03	1,242.5	62.3	0.86	ZZ
VFMS14		1,253.0	59.8	0.90	1,184.5	4.3	0.06	ZZ
VLV3ZQ		1,054.0	-139.2	-2.10	1,061.0	-119.2	-1.64	ZZ
VMPA8N		1,206.5	13.3	0.20	1,158.0	-22.2	-0.31	ZZ
VTM9AX		1,247.3	54.2	0.82	1,273.4	93.2	1.28	ZZ
WVYL87		1,253.0	59.8	0.90	1,231.0	50.8	0.70	ZZ
XE5S3E		1,158.0	-35.2	-0.53	1,093.0	-87.2	-1.20	ZZ
XJT4BA		1,167.5	-25.7	-0.39	1,158.0	-22.2	-0.31	ZZ
Y725PK	X	957.5	-235.7	-3.55	912.5	-267.7	-3.68	ZZ
Y8SCNN	*	1,147.3	-45.9	-0.69	1,043.6	-136.7	-1.88	ZZ
YR2PQJ		1,258.0	64.8	0.98	1,256.5	76.3	1.05	ZZ

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YYYYA3C		1,128.0	-65.2	-0.98	1,144.0	-36.2	-0.50	ZZ
YZRGWP		1,168.3	-24.9	-0.38	1,134.9	-45.3	-0.62	ZZ
Z39VAA		1,345.5	152.3	2.30	1,323.5	143.3	1.97	ZZ
Z84SZ2	X	860.0	-333.2	-5.02	957.0	-223.2	-3.07	ZZ
ZQPDM		1,173.5	-19.7	-0.30	1,150.5	-29.7	-0.41	ZZ
ZWTKG3		1,221.2	28.1	0.42	1,208.2	28.0	0.38	ZZ
ZZ3D1T		1,137.2	-56.0	-0.84	1,129.3	-50.9	-0.70	ZZ
ZZCYEQ		1,116.1	-77.1	-1.16	1,076.2	-104.0	-1.43	ZZ

Grand Means		Summary Statistics	
	1,193.17 psi		1,180.21 psi
Std Dev Btwn Labs			72.79 psi
	66.32 psi	Statistics based on 106 of 113 reporting participants	

Grand Means		Summary Statistics in SI Units	
	8.2266 MPa		8.14 MPa
Std Dev Btwn Labs			0.50 MPa
	0.4573 MPa	Statistics based on 106 of 113 reporting participants	

Samples C71-C72: Polyisoprene compound, batch #1 & C73-C74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #607

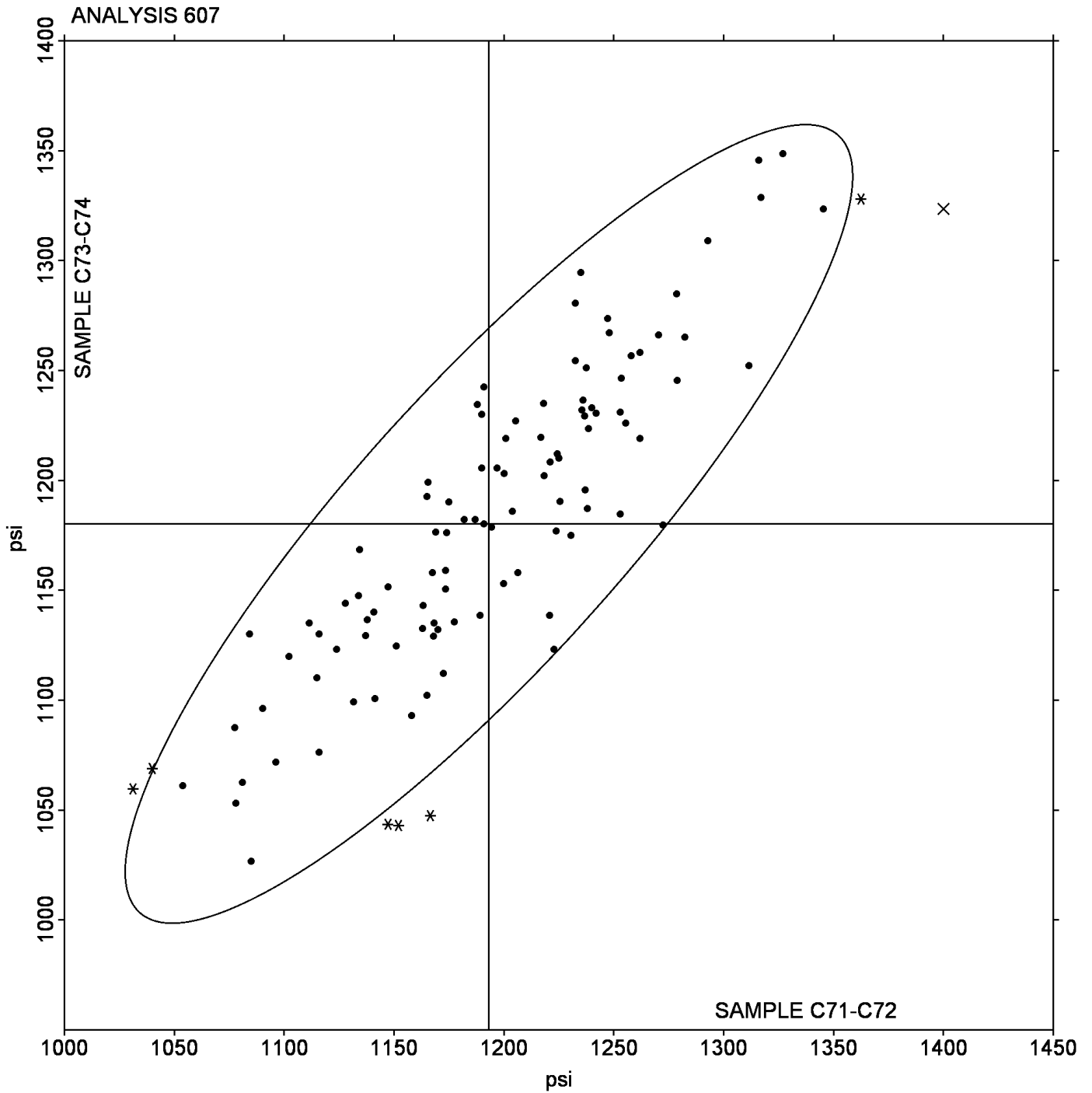
- 515W4Y (X) - Data for all Samples are high.
- 5J5GST (X) - Extreme data for both Sample sets.
- H7WGVM (X) - Data for all Samples are low.
- RVA5XF (X) - Inconsistency in testing between Sample sets. Data for Sample Set C72 are high. Also inconsistent in testing within both Sample Sets.
- TC9XWM (X) - Inconsistency in testing between Sample sets. Data for Sample Sets C71-C72 are high.
- Y725PK (X) - Data for all Samples are low. Also inconsistent in testing within Sample Sets C71-C72.
- Z84SZ2 (X) - Data for all Samples are low.

Analysis 607

Stress at 300% Elongation (psi)

Grand Mean Sample C71-C72 = 1,193.17 psi

Grand Mean Sample C73-C74 = 1,180.21 psi



Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1H7S62		248.7	-4.7	-0.32	248.0	-2.7	-0.17	ZZ
1K1DF4		241.0	-12.4	-0.86	241.5	-9.2	-0.59	ZZ
25GZE6		230.0	-23.4	-1.63	229.0	-21.7	-1.39	ZZ
3JYRWQ		266.1	12.7	0.89	263.2	12.5	0.81	ZZ
3L252Q		252.0	-1.4	-0.10	252.5	1.8	0.12	ZZ
3LXVZS		246.2	-7.2	-0.50	243.0	-7.7	-0.49	ZZ
3RQUF8		269.0	15.6	1.09	265.5	14.8	0.95	ZZ
3TFWLW	X	12.5	-240.9	-16.76	12.0	-238.7	-15.33	ZZ
3U4KH4		251.0	-2.4	-0.17	248.5	-2.2	-0.14	ZZ
4R8GRF		249.5	-3.9	-0.27	247.3	-3.4	-0.22	ZZ
4UC8ZG		262.0	8.6	0.60	253.0	2.3	0.15	ZZ
5V6QY2	*	256.0	2.6	0.18	236.5	-14.2	-0.91	ZZ
6755YC		261.0	7.6	0.53	259.0	8.3	0.53	ZZ
6D8BBU		248.0	-5.4	-0.37	256.7	6.0	0.39	ZZ
6DRJTQ		256.4	3.0	0.21	256.9	6.2	0.40	ZZ
6WJGRJ		241.4	-12.0	-0.83	242.7	-8.0	-0.52	ZZ
78FS14		243.0	-10.4	-0.72	243.5	-7.2	-0.46	ZZ
79AKQV		236.5	-16.9	-1.18	226.5	-24.2	-1.55	ZZ
7BLQLS		254.5	1.1	0.08	240.5	-10.2	-0.65	ZZ
7C5GX9		256.0	2.6	0.18	252.0	1.3	0.08	ZZ
7F91CU		244.5	-8.9	-0.62	240.0	-10.7	-0.69	ZZ
7HT4SE		232.0	-21.4	-1.49	230.0	-20.7	-1.33	ZZ
7V7PMF		240.5	-12.9	-0.90	244.0	-6.7	-0.43	ZZ
8N7KCB		243.0	-10.4	-0.72	250.0	-0.7	-0.04	ZZ
8RHUTU		259.8	6.4	0.44	249.2	-1.5	-0.09	ZZ
9B7Y1Q		265.0	11.6	0.81	269.5	18.8	1.21	ZZ
9ETZMK	X	327.5	74.1	5.15	327.0	76.3	4.90	ZZ
9RL7Z8		253.5	0.1	0.01	253.5	2.8	0.18	ZZ
9YSH57		226.0	-27.4	-1.91	221.5	-29.2	-1.88	ZZ
AD58M6	X	281.5	28.1	1.95	249.0	-1.7	-0.11	ZZ
ADJ5PZ		251.6	-1.8	-0.12	254.5	3.8	0.25	ZZ
AH3QZ1		257.5	4.1	0.29	248.0	-2.7	-0.17	ZZ
AK79VN		227.6	-25.8	-1.80	220.5	-30.2	-1.94	ZZ
AXT5TU		248.0	-5.4	-0.38	250.5	-0.2	-0.01	ZZ
B5WW8N		257.5	4.1	0.29	259.0	8.3	0.53	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BGJ31H		247.5	-5.9	-0.41	255.0	4.3	0.28	ZZ
BP9CSU		264.7	11.3	0.79	249.5	-1.2	-0.08	ZZ
BRX2W7		252.4	-1.0	-0.07	246.6	-4.1	-0.27	ZZ
C1WFDB		249.7	-3.7	-0.26	257.7	7.0	0.45	ZZ
C9CP6M	X	267.0	13.6	0.95	285.5	34.8	2.24	ZZ
CMJE69		238.0	-15.4	-1.07	235.0	-15.7	-1.01	ZZ
D7S8XK		248.0	-5.4	-0.38	249.5	-1.2	-0.08	ZZ
D9SQLE		254.0	0.6	0.04	251.5	0.8	0.05	ZZ
DF1GER		260.0	6.6	0.46	257.5	6.8	0.44	ZZ
EVBYTS		283.5	30.1	2.09	284.0	33.3	2.14	ZZ
F11QP2		258.5	5.1	0.35	248.5	-2.2	-0.14	ZZ
F79FHD		248.3	-5.1	-0.35	242.7	-8.0	-0.51	ZZ
F8L7AV		288.0	34.6	2.41	286.5	35.8	2.30	ZZ
FVXC5G		248.5	-4.9	-0.34	245.0	-5.7	-0.37	ZZ
G1PN7S		248.0	-5.4	-0.38	243.5	-7.2	-0.46	ZZ
G24JJ7		257.9	4.5	0.31	246.0	-4.7	-0.30	ZZ
G41UUZ		234.5	-18.9	-1.31	236.5	-14.2	-0.91	ZZ
G7HYPP		261.1	7.7	0.53	261.1	10.4	0.67	ZZ
GD8GXY		237.5	-15.9	-1.11	229.0	-21.7	-1.39	ZZ
GMEDPH		266.5	13.1	0.91	253.5	2.8	0.18	ZZ
GVGWP2		240.5	-12.9	-0.90	244.5	-6.2	-0.40	ZZ
GY3W42	*	240.8	-12.6	-0.88	220.5	-30.2	-1.94	ZZ
GYGGLR		242.5	-10.9	-0.76	243.0	-7.7	-0.49	ZZ
GYGUD8		254.0	0.6	0.04	253.0	2.3	0.15	ZZ
GYU5ND		233.0	-20.5	-1.42	228.9	-21.8	-1.40	ZZ
HBT6A8		288.5	35.1	2.44	285.0	34.3	2.20	ZZ
HMB1PT		249.2	-4.3	-0.30	253.8	3.1	0.20	ZZ
HMMXP		245.0	-8.4	-0.58	241.0	-9.7	-0.62	ZZ
HTS5BF		259.0	5.6	0.39	261.5	10.8	0.69	ZZ
HXHLNF		256.0	2.6	0.18	263.0	12.3	0.79	ZZ
J35QZG		263.0	9.6	0.67	267.5	16.8	1.08	ZZ
J8SN3K		267.0	13.6	0.95	270.0	19.3	1.24	ZZ
JP9Y88		257.6	4.2	0.29	247.3	-3.4	-0.22	ZZ
JRAN6N		265.9	12.5	0.87	264.8	14.1	0.90	ZZ
KMW2E		264.7	11.3	0.79	258.2	7.5	0.48	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
LWAMW		259.0	5.6	0.39	250.5	-0.2	-0.01	ZZ
LYUBQ9		243.0	-10.4	-0.72	248.5	-2.2	-0.14	ZZ
M6ZJNW		244.0	-9.4	-0.65	235.5	-15.2	-0.98	ZZ
MBQN6		271.2	17.8	1.24	275.6	24.9	1.60	ZZ
MCS5RN		245.8	-7.6	-0.53	251.6	0.9	0.06	ZZ
MXF2C3		244.5	-8.9	-0.62	228.0	-22.7	-1.46	ZZ
MXRV3B		257.0	3.6	0.25	261.8	11.1	0.71	ZZ
N5JDCY		257.5	4.1	0.29	251.5	0.8	0.05	ZZ
NC25ZW		254.5	1.1	0.08	242.5	-8.2	-0.53	ZZ
NG22X4		239.5	-13.9	-0.97	240.0	-10.7	-0.69	ZZ
NHGEN		263.5	10.1	0.70	255.5	4.8	0.31	ZZ
NQSQT7	*	282.5	29.1	2.02	265.0	14.3	0.92	ZZ
P1CQ4E		264.5	11.1	0.77	256.5	5.8	0.37	ZZ
P9B5CL		249.0	-4.4	-0.31	256.5	5.8	0.37	ZZ
Q8W6TW		276.0	22.6	1.57	267.0	16.3	1.05	ZZ
QCK21U		270.4	17.0	1.18	272.2	21.5	1.38	ZZ
QFMYF3	*	290.1	36.7	2.55	297.3	46.6	3.00	ZZ
QHJZ7D	X	316.2	62.8	4.37	317.6	66.9	4.30	ZZ
QYCQ7G		245.5	-7.9	-0.55	248.0	-2.7	-0.17	ZZ
RS6EPF		247.0	-6.4	-0.45	236.5	-14.2	-0.91	ZZ
S5R3AY		248.7	-4.7	-0.32	240.8	-9.9	-0.64	ZZ
SJTNLA	X	177.5	-75.9	-5.28	185.0	-65.7	-4.22	ZZ
STMTWP		243.0	-10.4	-0.72	239.0	-11.7	-0.75	ZZ
STYQ2U	*	288.5	35.1	2.44	275.0	24.3	1.56	ZZ
T8KAPM		241.3	-12.2	-0.85	238.7	-12.0	-0.77	ZZ
THBKKB		288.5	35.1	2.44	286.5	35.8	2.30	ZZ
TLWUR8	*	272.0	18.6	1.29	283.5	32.8	2.11	ZZ
TQSSSK		254.0	0.6	0.04	250.5	-0.2	-0.01	ZZ
TYMNY		274.0	20.6	1.43	280.5	29.8	1.91	ZZ
UGJADL		226.0	-27.4	-1.91	216.5	-34.2	-2.20	ZZ
UVE9VH		235.5	-17.9	-1.25	240.0	-10.7	-0.69	ZZ
W5A42B		246.6	-6.8	-0.48	246.6	-4.1	-0.27	ZZ
W9YWQ		248.0	-5.4	-0.38	244.5	-6.2	-0.40	ZZ
WFG7XF		245.5	-7.9	-0.55	238.0	-12.7	-0.82	ZZ
WHY6K4		233.5	-19.9	-1.38	242.2	-8.5	-0.54	ZZ

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
X4R6ZR		245.8	-7.6	-0.53	235.7	-15.0	-0.96	ZZ
XBVJ69		279.0	25.6	1.78	280.5	29.8	1.91	ZZ
XGA2N2		232.1	-21.3	-1.48	229.9	-20.8	-1.34	ZZ
Y9J2RA		240.5	-12.9	-0.90	241.0	-9.7	-0.62	ZZ
Y9ULXD		260.0	6.6	0.46	251.0	0.3	0.02	ZZ
YH2V86	X	309.2	55.8	3.88	278.3	27.6	1.77	ZZ
YQN8GC		252.0	-1.4	-0.10	246.5	-4.2	-0.27	ZZ

Grand Means		Summary Statistics	
	253.40 psi		250.70 psi
Std Dev Btwn Labs			15.57 psi
	14.38 psi		
Statistics based on 105 of 112 reporting participants			

Grand Means		Summary Statistics in SI Units	
	1.7471 MPa		1.73 MPa
Std Dev Btwn Labs			0.11 MPa
	0.0991 MPa		
Statistics based on 105 of 112 reporting participants			

Samples C71-C72: Polyisoprene compound, batch #1 & C73-C74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #608

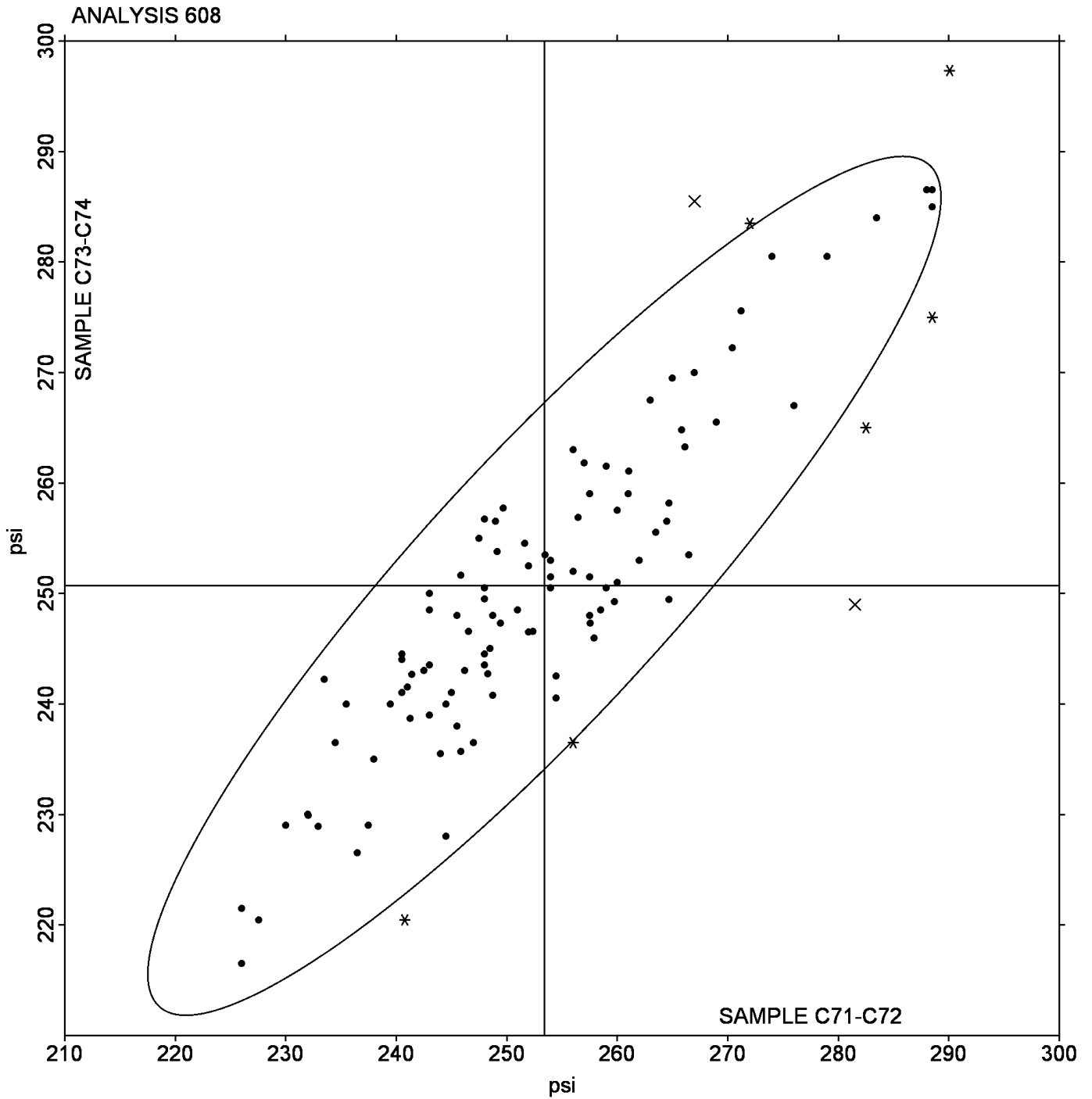
- 3TFWLW (X) - Extreme data for both Sample sets.
- 9ETZMK (X) - Data for all Samples are high.
- AD58M6 (X) - Inconsistency in testing between Sample sets. Also inconsistent in testing within Sample Sets C71-C72.
- C9CP6M (X) - Inconsistency in testing between Sample sets.
- QHJZ7D (X) - Data for all Samples are high.
- SJTNLA (X) - Data for all Samples are low.
- YH2V86 (X) - Inconsistency in testing between Sample sets. Data for Sample Sets C71-C72 are high. Also inconsistent in Testing within both Sample Sets.

Analysis 608

Stress at 100% Elongation (psi)

Grand Mean Sample C71-C72 = 253.40 psi

Grand Mean Sample C73-C74 = 250.70 psi



Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
15KUMX		53.00	-0.42	-0.27	52.50	-0.86	-0.54	ZZ
17QDHK		54.90	1.48	0.95	54.90	1.54	0.97	ZZ
21ZF62		55.00	1.58	1.01	54.50	1.14	0.72	ZZ
25ZD7U		53.75	0.33	0.21	53.65	0.29	0.18	ZZ
2D2FT8		53.50	0.08	0.05	53.50	0.14	0.09	ZZ
2M2RD5		55.00	1.58	1.01	55.25	1.89	1.18	ZZ
2QARX2	*	50.50	-2.92	-1.87	51.50	-1.86	-1.16	ZZ
2QXJ3T		52.35	-1.07	-0.68	52.55	-0.81	-0.51	ZZ
321CRX		52.50	-0.92	-0.59	52.00	-1.36	-0.85	ZZ
3XQY4X	*	57.60	4.18	2.67	57.20	3.84	2.41	ZZ
4BR3FP		55.00	1.58	1.01	54.50	1.14	0.72	ZZ
4QERMM		54.50	1.08	0.69	54.00	0.64	0.40	ZZ
4QRGGY		54.50	1.08	0.69	54.50	1.14	0.72	ZZ
4X51QK		53.50	0.08	0.05	54.00	0.64	0.40	ZZ
58QVRQ		52.00	-1.42	-0.91	51.50	-1.86	-1.16	ZZ
5DP3K1		53.45	0.03	0.02	53.55	0.19	0.12	ZZ
5UP45L		53.50	0.08	0.05	53.50	0.14	0.09	ZZ
6FCRYZ		57.00	3.58	2.29	57.00	3.64	2.28	ZZ
6JPYPS		55.50	2.08	1.33	55.00	1.64	1.03	ZZ
6NKPSJ		53.50	0.08	0.05	53.00	-0.36	-0.22	ZZ
6TYWH8		54.30	0.88	0.56	54.40	1.04	0.65	ZZ
6Z7DRH		53.05	-0.37	-0.24	53.15	-0.21	-0.13	ZZ
7LQVGE		50.50	-2.92	-1.87	51.00	-2.36	-1.48	ZZ
815SHE		54.50	1.08	0.69	54.50	1.14	0.72	ZZ
86XCM1		53.50	0.08	0.05	53.00	-0.36	-0.22	ZZ
8ECY7Q		52.45	-0.97	-0.62	52.10	-1.26	-0.79	ZZ
8HKUS2		52.50	-0.92	-0.59	52.40	-0.96	-0.60	ZZ
8JJU7S		53.95	0.53	0.34	54.15	0.79	0.50	ZZ
8WLAW		51.00	-2.42	-1.55	51.00	-2.36	-1.48	ZZ
8X5GPZ		53.80	0.38	0.24	54.10	0.74	0.46	ZZ
9A36P5		54.60	1.18	0.75	54.30	0.94	0.59	ZZ
9EWHRA		52.50	-0.92	-0.59	52.35	-1.01	-0.63	ZZ
A89JXM		53.50	0.08	0.05	53.60	0.24	0.15	ZZ
AJTHLP		56.00	2.58	1.65	56.00	2.64	1.65	ZZ
B3BZ1B		54.00	0.58	0.37	54.40	1.04	0.65	ZZ

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
B891EH		52.50	-0.92	-0.59	52.50	-0.86	-0.54	ZZ
BTS2DX	*	51.00	-2.42	-1.55	50.00	-3.36	-2.10	ZZ
BUDVRZ		51.00	-2.42	-1.55	51.00	-2.36	-1.48	ZZ
C5HZY8		52.00	-1.42	-0.91	52.00	-1.36	-0.85	ZZ
CKVJL		54.00	0.58	0.37	53.00	-0.36	-0.22	ZZ
D5VTUG		53.50	0.08	0.05	53.00	-0.36	-0.22	ZZ
E3K1NL		54.20	0.78	0.50	54.30	0.94	0.59	ZZ
E74H7X		52.00	-1.42	-0.91	52.00	-1.36	-0.85	ZZ
EAF8YE		51.00	-2.42	-1.55	51.00	-2.36	-1.48	ZZ
FDB61R		51.65	-1.77	-1.13	50.65	-2.71	-1.70	ZZ
FSHR4	X	14.50	-38.92	-24.89	14.00	-39.36	-24.65	ZZ
FYA5UV		52.05	-1.37	-0.88	51.85	-1.51	-0.94	ZZ
FYYDW	*	56.00	2.58	1.65	55.00	1.64	1.03	ZZ
G39E2G		53.00	-0.42	-0.27	53.00	-0.36	-0.22	ZZ
G3PXPV		52.90	-0.52	-0.33	53.10	-0.26	-0.16	ZZ
GG8J68		52.30	-1.12	-0.72	51.70	-1.66	-1.04	ZZ
GMAJF	*	51.30	-2.12	-1.36	50.25	-3.11	-1.95	ZZ
GNKDG		55.80	2.38	1.52	56.15	2.79	1.75	ZZ
GTGK8	X	44.50	-8.92	-5.70	44.50	-8.86	-5.55	ZZ
GVG6QR		53.70	0.28	0.18	53.70	0.34	0.21	ZZ
GWBYE		54.50	1.08	0.69	54.50	1.14	0.72	ZZ
H2M2MX		54.00	0.58	0.37	54.00	0.64	0.40	ZZ
H7N6SG		51.20	-2.22	-1.42	51.95	-1.41	-0.88	ZZ
HMVQ7N		52.00	-1.42	-0.91	52.50	-0.86	-0.54	ZZ
HNV5UT		55.00	1.58	1.01	54.50	1.14	0.72	ZZ
HU7DUG		52.25	-1.17	-0.75	52.25	-1.11	-0.69	ZZ
HVU5FT		52.00	-1.42	-0.91	52.00	-1.36	-0.85	ZZ
J2H4P7		51.50	-1.92	-1.23	51.50	-1.86	-1.16	ZZ
J6GC2U	X	59.00	5.58	3.57	59.00	5.64	3.53	ZZ
JCJD9B		53.50	0.08	0.05	54.00	0.64	0.40	ZZ
JMACAN		53.00	-0.42	-0.27	53.50	0.14	0.09	ZZ
JR2B3J		50.00	-3.42	-2.19	50.00	-3.36	-2.10	ZZ
JXWWW		55.00	1.58	1.01	55.00	1.64	1.03	ZZ
JZDUSP		53.00	-0.42	-0.27	53.00	-0.36	-0.22	ZZ
KBE2JE	*	51.05	-2.37	-1.52	50.05	-3.31	-2.07	ZZ

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
KG9TX4		51.00	-2.42	-1.55	51.00	-2.36	-1.48	ZZ
LDPRWV		53.50	0.08	0.05	53.00	-0.36	-0.22	ZZ
LNBPRG		55.55	2.13	1.36	55.10	1.74	1.09	ZZ
LNU42H		53.25	-0.17	-0.11	53.25	-0.11	-0.07	ZZ
MD4ERV		54.55	1.13	0.72	54.45	1.09	0.68	ZZ
MEA7EW		54.50	1.08	0.69	53.50	0.14	0.09	ZZ
NPSBZ2		53.50	0.08	0.05	54.00	0.64	0.40	ZZ
NSTYF4		53.85	0.43	0.27	54.30	0.94	0.59	ZZ
QCWU9R		53.35	-0.07	-0.05	53.40	0.04	0.03	ZZ
QKEMV4		53.25	-0.17	-0.11	53.05	-0.31	-0.19	ZZ
QM7YVF		57.00	3.58	2.29	57.00	3.64	2.28	ZZ
QVFBTE	X	58.50	5.08	3.25	58.50	5.14	3.22	ZZ
QXNHZR		53.00	-0.42	-0.27	53.00	-0.36	-0.22	ZZ
R49ZFT		53.00	-0.42	-0.27	52.80	-0.56	-0.35	ZZ
R8KL4L		52.20	-1.22	-0.78	52.20	-1.16	-0.73	ZZ
RQZ2Y1		53.75	0.33	0.21	53.40	0.04	0.03	ZZ
RXCJ8G		52.00	-1.42	-0.91	51.85	-1.51	-0.94	ZZ
SDPWFB		51.15	-2.27	-1.45	51.10	-2.26	-1.41	ZZ
T8G9GM		53.00	-0.42	-0.27	54.00	0.64	0.40	ZZ
TEB8PB		55.00	1.58	1.01	55.00	1.64	1.03	ZZ
TPJH DU		52.40	-1.02	-0.65	52.65	-0.71	-0.44	ZZ
TZD61B		52.80	-0.62	-0.40	52.65	-0.71	-0.44	ZZ
U6M91G		51.00	-2.42	-1.55	51.00	-2.36	-1.48	ZZ
UBRAX5		53.70	0.28	0.18	52.80	-0.56	-0.35	ZZ
UPTGGX		56.00	2.58	1.65	56.50	3.14	1.97	ZZ
UT1D1Q		53.00	-0.42	-0.27	54.00	0.64	0.40	ZZ
UY344A		52.35	-1.07	-0.68	52.35	-1.01	-0.63	ZZ
UYW5K8		55.50	2.08	1.33	55.00	1.64	1.03	ZZ
UZ3HVU		54.50	1.08	0.69	55.00	1.64	1.03	ZZ
UZ983L		55.65	2.23	1.43	55.35	1.99	1.25	ZZ
V76S5M		55.00	1.58	1.01	55.00	1.64	1.03	ZZ
W5S8HP		55.50	2.08	1.33	56.00	2.64	1.65	ZZ
W96V8N		52.75	-0.67	-0.43	52.15	-1.21	-0.76	ZZ
WPHZH2		54.50	1.08	0.69	55.00	1.64	1.03	ZZ
WPN7TA		53.00	-0.42	-0.27	53.00	-0.36	-0.22	ZZ

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample C71-C72			Sample C73-C74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XNTN19		55.00	1.58	1.01	55.00	1.64	1.03	ZZ
XR5S3J		51.60	-1.82	-1.16	51.75	-1.61	-1.01	ZZ
XXAZS7		54.00	0.58	0.37	53.50	0.14	0.09	ZZ
YE8K31		52.50	-0.92	-0.59	52.25	-1.11	-0.69	ZZ
YJMG82		54.00	0.58	0.37	54.50	1.14	0.72	ZZ
YX8ZD5		54.50	1.08	0.69	55.00	1.64	1.03	ZZ
YX9YLK		56.00	2.58	1.65	55.55	2.19	1.37	ZZ
Z2Q6LA		51.35	-2.07	-1.32	50.90	-2.46	-1.54	ZZ
Z9VNMA	*	51.50	-1.92	-1.23	52.50	-0.86	-0.54	ZZ
ZF1VGZ		55.50	2.08	1.33	55.55	2.19	1.37	ZZ
ZGGEEEX		55.80	2.38	1.52	55.90	2.54	1.59	ZZ
ZLJ1EL		53.50	0.08	0.05	52.40	-0.96	-0.60	ZZ
ZS5TT6		53.00	-0.42	-0.27	53.00	-0.36	-0.22	ZZ
ZVXKHJ		52.50	-0.92	-0.59	53.00	-0.36	-0.22	ZZ

Summary Statistics	
Grand Means	
53.421 Type A	53.358 Type A
Std Dev Btwn Labs	
1.564 Type A	1.597 Type A
Statistics based on 115 of 119 reporting participants	

Samples C71-C72: Polyisoprene compound, batch #1 & C73-C74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #620

FSHHR4 (X) - Data for all Samples are low.

GTGHK8 (X) - Data for all Samples are low.

J6GC2U (X) - Data for all Samples are high. Also inconsistent in testing within Sample Sets C73-C74.

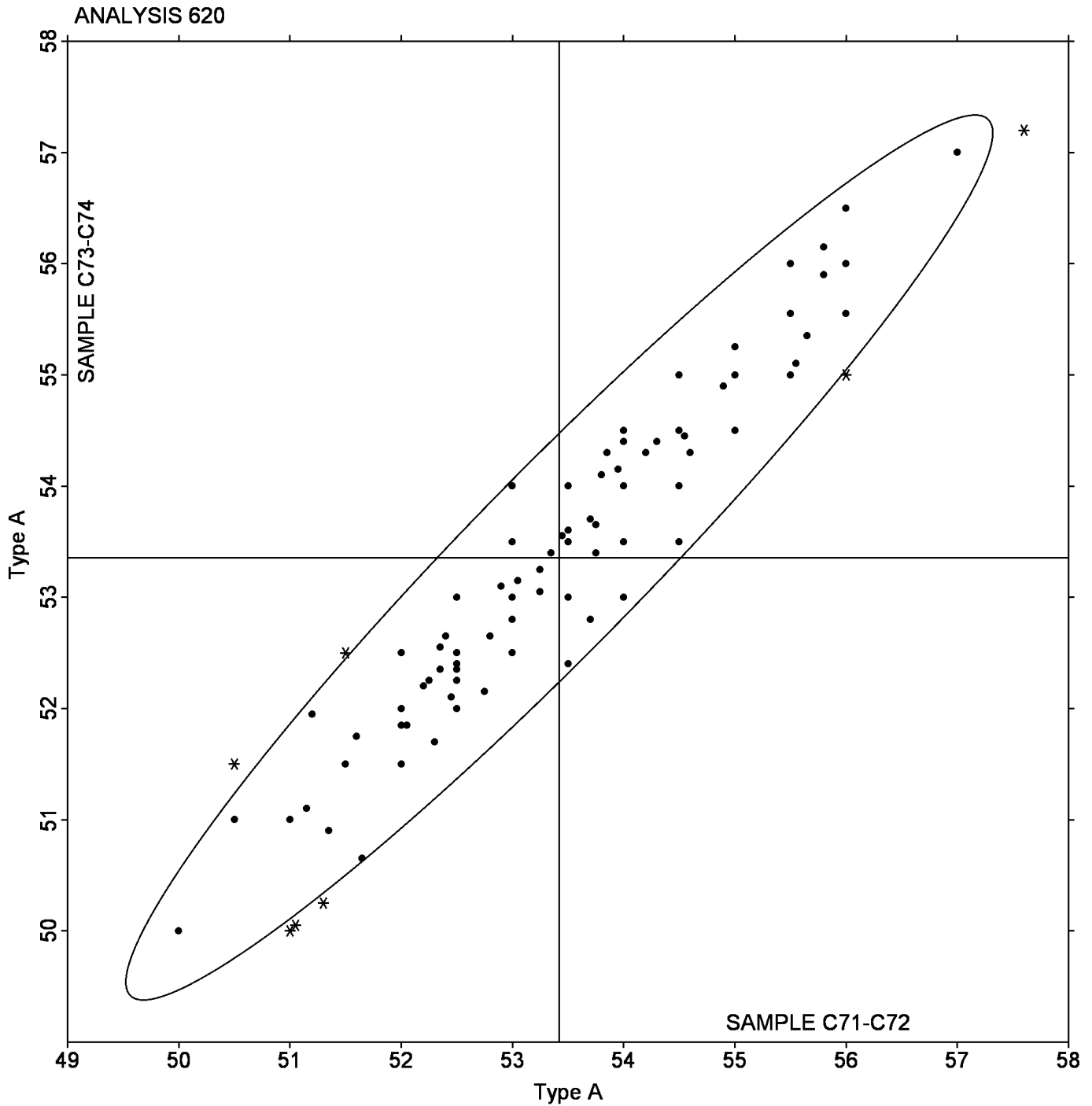
QVVFTE (X) - Data for all Samples are high. Possible Systematic Error.

Analysis 620

Hardness (Shore A/Type A)

Grand Mean Sample C71-C72 = 53.421 Type A

Grand Mean Sample C73-C74 = 53.358 Type A



Analysis 630

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

WebCode	Data Flag	Sample C71-C72			Sample L71-L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1KEQVB	X	3,467.5	150.6	1.01	2,072.5	-968.2	-6.06	ZZ
1ZVCA7	X	3,436.0	119.1	0.80	2,511.0	-529.7	-3.32	ZZ
2FGBKC		3,233.6	-83.3	-0.56	2,972.6	-68.1	-0.43	ZZ
2G8UMT		3,397.5	80.6	0.54	3,019.0	-21.7	-0.14	ZZ
2WPBLU		3,275.5	-41.4	-0.28	3,125.5	84.8	0.53	ZZ
2YH18V	X	3,344.5	27.6	0.18	2,179.0	-861.7	-5.40	ZZ
5VP8TV		3,166.5	-150.4	-1.01	2,873.0	-167.7	-1.05	ZZ
6DBRRF		3,225.5	-91.4	-0.61	2,911.5	-129.2	-0.81	ZZ
776QE5		3,285.5	-31.4	-0.21	2,794.5	-246.2	-1.54	ZZ
7P9S4K		3,615.0	298.1	1.99	3,236.5	195.8	1.23	ZZ
82YYZB		3,267.5	-49.4	-0.33	3,085.0	44.3	0.28	ZZ
96436D	*	2,928.0	-388.9	-2.60	3,033.1	-7.6	-0.05	ZZ
9RUQWD		3,411.0	94.1	0.63	2,737.0	-303.7	-1.90	ZZ
AW6D7E		3,412.2	95.3	0.64	3,217.5	176.8	1.11	ZZ
BQ23HL		3,381.0	64.1	0.43	3,304.0	263.3	1.65	ZZ
BVUL2C		3,416.0	99.1	0.66	2,855.5	-185.2	-1.16	ZZ
CUD757		3,170.0	-146.9	-0.98	3,280.5	239.8	1.50	ZZ
DV9X5U		3,382.0	65.1	0.44	3,210.0	169.3	1.06	ZZ
E93ZSS		3,412.0	95.1	0.64	3,040.0	-0.6	0.00	ZZ
EC724V		3,527.3	210.4	1.41	3,036.4	-4.3	-0.03	ZZ
FHGWX		3,332.5	15.6	0.10	3,171.5	130.8	0.82	ZZ
HFPDUN		3,352.5	35.6	0.24	3,145.0	104.3	0.65	ZZ
HVKHCS		3,116.9	-200.1	-1.34	2,810.9	-229.8	-1.44	ZZ
J6GVWQ		3,277.4	-39.6	-0.26	2,915.1	-125.6	-0.79	ZZ
KPLUAS		3,525.5	208.6	1.40	3,321.5	280.8	1.76	ZZ
LK47WD		3,373.5	56.6	0.38	3,020.0	-20.7	-0.13	ZZ
M615UW		3,528.9	211.9	1.42	2,917.6	-123.0	-0.77	ZZ
MDAWB		3,435.0	118.1	0.79	3,085.0	44.3	0.28	ZZ
NWU2HB		3,526.0	209.1	1.40	3,038.0	-2.7	-0.02	ZZ
P8RQMX		3,339.5	22.6	0.15	3,228.6	187.9	1.18	ZZ
SCC9VC		3,014.5	-302.4	-2.02	2,737.0	-303.7	-1.90	ZZ
SQDDYC		3,111.5	-205.4	-1.37	2,848.5	-192.2	-1.20	ZZ
T5B8EH		3,270.0	-46.9	-0.31	2,953.0	-87.7	-0.55	ZZ
T65YJB		3,167.4	-149.6	-1.00	3,131.5	90.8	0.57	ZZ
TGGJCS		3,481.2	164.3	1.10	3,162.4	121.7	0.76	ZZ

**Rubber Interlaboratory Testing Program
Analysis 630**

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

WebCode	Data Flag	Sample C71-C72			Sample L71-L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
TPMD4Y		3,171.0	-146.0	-0.98	2,892.8	-147.9	-0.93	ZZ
UJL7SU		3,271.4	-45.6	-0.31	2,966.0	-74.6	-0.47	ZZ
W84S8X		3,367.5	50.6	0.34	3,140.0	99.3	0.62	ZZ
WA75HD		3,225.5	-91.4	-0.61	2,989.5	-51.2	-0.32	ZZ
XBSXRF		3,243.5	-73.4	-0.49	3,096.1	55.4	0.35	ZZ
YF6CTY		3,406.5	89.5	0.60	3,243.6	203.0	1.27	ZZ

Summary Statistics			
Grand Means	3,316.94 psi	3,040.66 psi	
Std Dev Btwn Labs	149.46 psi	159.71 psi	
Statistics based on 38 of 41 reporting participants			

Summary Statistics in SI Units			
Grand Means	22.869 MPa	20.96 MPa	
Std Dev Btwn Labs	1.030 MPa	1.10 MPa	
Statistics based on 38 of 41 reporting participants			

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #630

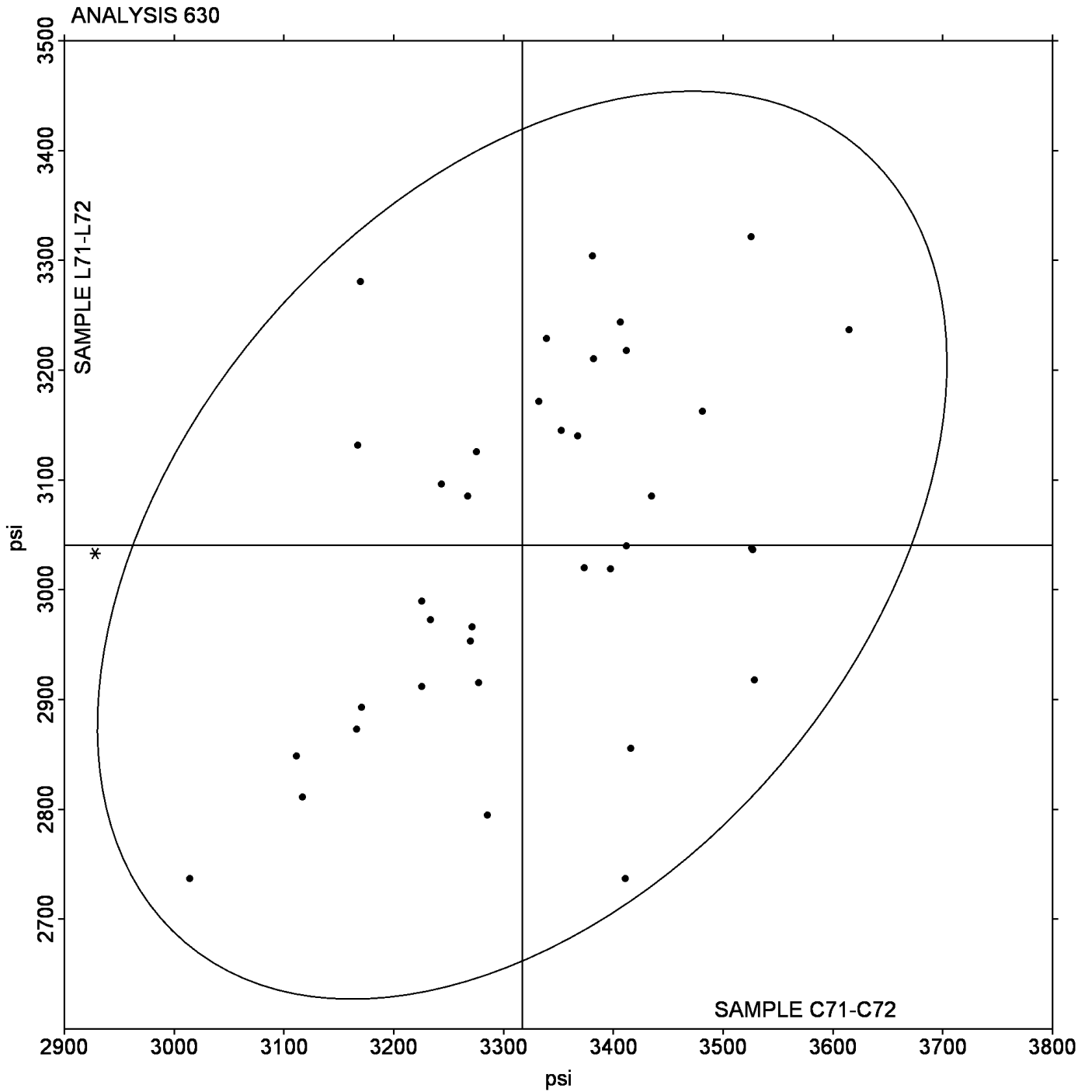
- 1KEQVB (X) - Low data for Sample Set L71-L72.
- 1ZVCA7 (X) - Low data for Sample Set L71-L72.
- 2YH18V (X) - Low data for Sample Set L71-L72.

Analysis 630

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

Grand Mean Sample C71-C72 = 3,316.94 psi

Grand Mean Sample L71-L72 = 3,040.66 psi



Rubber Interlaboratory Testing Program

Analysis 631

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

WebCode	Data Flag	Sample C71-C72			Sample L71-L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1YKAP8		545.5	-20.0	-0.79	498.0	-55.4	-2.47	ZZ
2UUY Y		574.5	9.0	0.35	577.5	24.1	1.07	ZZ
3HE1D5		560.0	-5.5	-0.22	550.5	-2.9	-0.13	ZZ
56HUER		560.5	-5.0	-0.20	556.0	2.6	0.11	ZZ
5PW5P5		564.5	-1.0	-0.04	562.0	8.6	0.38	ZZ
6WSG6J		550.5	-15.0	-0.59	540.0	-13.4	-0.60	ZZ
7KC8XE		580.5	15.0	0.59	549.5	-3.9	-0.18	ZZ
8U58KQ		582.5	17.0	0.67	522.5	-30.9	-1.38	ZZ
92QPZY		584.0	18.5	0.73	554.5	1.1	0.05	ZZ
A2PJKV	*	487.4	-78.2	-3.08	517.3	-36.1	-1.61	ZZ
BAC6PR		534.0	-31.5	-1.24	571.0	17.6	0.78	ZZ
CEPGEZ	*	601.5	36.0	1.42	523.5	-29.9	-1.33	ZZ
DXBHN8		573.5	8.0	0.32	552.5	-0.9	-0.04	ZZ
E5DCDZ		538.6	-26.9	-1.06	537.5	-16.0	-0.71	ZZ
ENDBTE		587.5	22.0	0.87	578.5	25.1	1.11	ZZ
ESAFL4		599.0	33.5	1.32	606.5	53.1	2.36	ZZ
FWEKS6		512.5	-53.0	-2.09	537.0	-16.4	-0.73	ZZ
G6DAH Y		577.0	11.5	0.45	559.2	5.8	0.26	ZZ
GH4839		562.0	-3.5	-0.14	554.5	1.1	0.05	ZZ
GZL6FU		535.0	-30.5	-1.20	531.5	-21.9	-0.98	ZZ
H65VH4		557.5	-8.0	-0.32	560.5	7.1	0.31	ZZ
H7Q8PU		597.5	32.0	1.26	570.0	16.6	0.74	ZZ
HCMCS5		593.1	27.6	1.09	546.5	-6.9	-0.31	ZZ
L48SQS		571.0	5.5	0.22	576.0	22.6	1.00	ZZ
L9RESH		552.0	-13.5	-0.53	543.5	-9.9	-0.44	ZZ
LHJQ4Y		597.5	32.0	1.26	573.0	19.6	0.87	ZZ
LZFN Y9		586.0	20.5	0.81	559.5	6.1	0.27	ZZ
N14JYM		562.0	-3.5	-0.14	554.0	0.6	0.02	ZZ
NMZ4BA		559.0	-6.5	-0.26	555.5	2.1	0.09	ZZ
P9447L		552.1	-13.4	-0.53	534.5	-18.9	-0.84	ZZ
PBUNV5		563.5	-2.0	-0.08	556.0	2.6	0.11	ZZ
QPNZPV		539.5	-26.0	-1.02	586.5	33.1	1.47	ZZ
R611LG		609.8	44.2	1.74	594.6	41.2	1.83	ZZ
RX4CEC		552.5	-13.0	-0.51	552.5	-0.9	-0.04	ZZ
TF87V3		602.6	37.1	1.46	580.9	27.5	1.22	ZZ

Analysis 631

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

WebCode	Data Flag	Sample C71-C72			Sample L71-L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
UAA57U		573.5	8.0	0.32	576.0	22.6	1.00	ZZ
VCVGJ4		545.0	-20.5	-0.81	506.0	-47.4	-2.11	ZZ
VGRM3V		591.5	26.0	1.02	553.0	-0.4	-0.02	ZZ
ZNSMZZ		553.0	-12.5	-0.49	547.0	-6.4	-0.29	ZZ
ZVMQ2B		550.5	-15.0	-0.59	542.5	-10.9	-0.49	ZZ
ZWP52G		566.0	0.5	0.02	543.5	-9.9	-0.44	ZZ

Summary Statistics

Grand Means

565.50 percent

553.44 percent

Std Dev Btwn Labs

25.38 percent

22.48 percent

Statistics based on 41 of 41 reporting participants

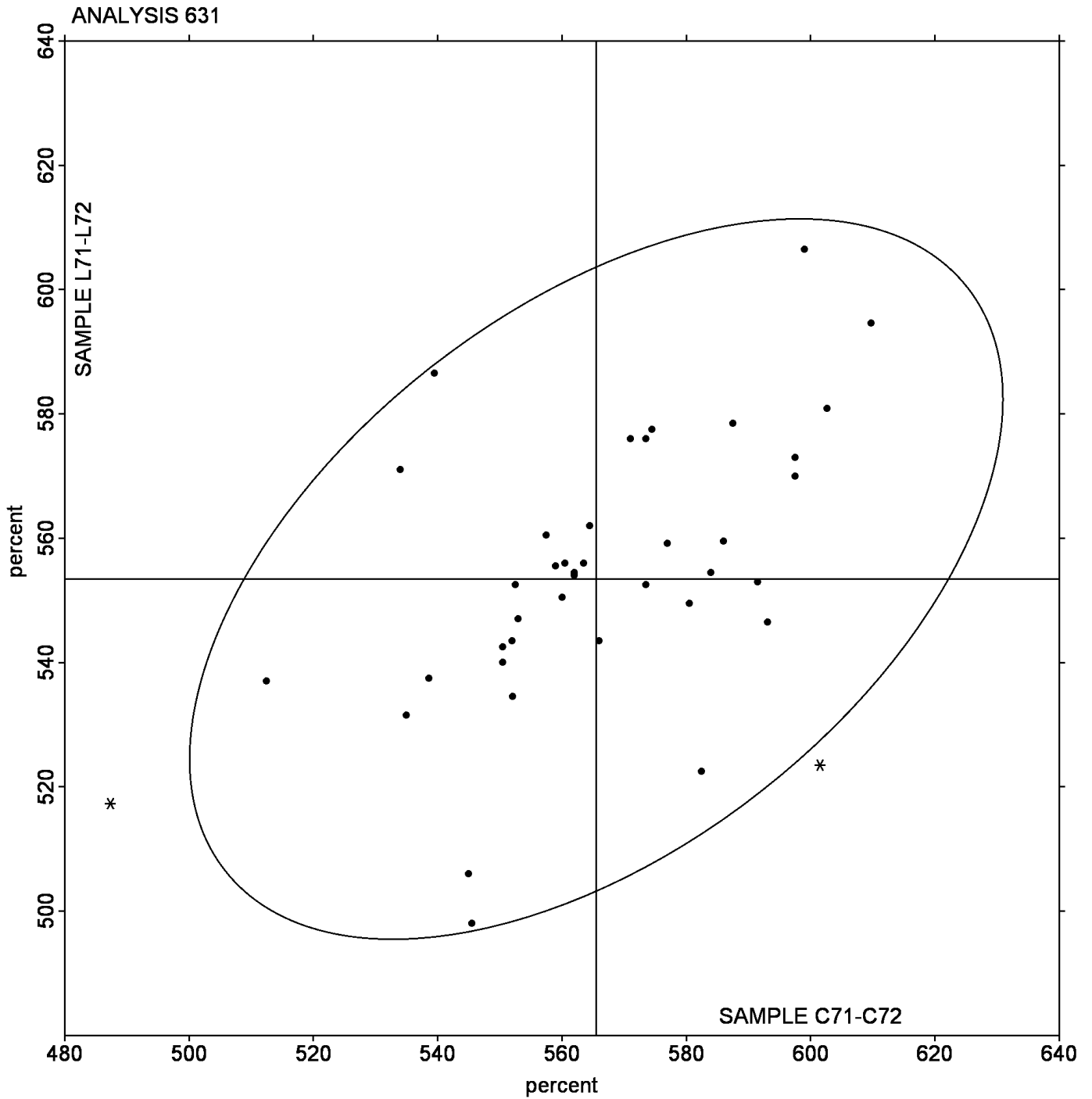
All samples : Polyisoprene compound, batch #1

Analysis 631

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

Grand Mean Sample C71-C72 = 565.50 percent

Grand Mean Sample L71-L72 = 553.44 percent



Analysis 632

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

WebCode	Data Flag	Sample C71-C72			Sample L71-L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1WU9JK	X	1,077.5	-119.3	-1.98	573.0	-514.4	-5.17	ZZ
2LKWCV		1,223.0	26.2	0.44	984.0	-103.4	-1.04	ZZ
2NSK2D		1,218.1	21.3	0.35	1,104.5	17.1	0.17	ZZ
3TRBKH		1,054.0	-142.8	-2.37	987.5	-99.9	-1.00	ZZ
4FTQ5S		1,131.7	-65.0	-1.08	1,114.9	27.5	0.28	ZZ
4FV6SR		1,111.5	-85.3	-1.42	1,106.0	18.6	0.19	ZZ
4UBE28		1,270.5	73.8	1.23	1,174.8	87.4	0.88	ZZ
4Y4UW5		1,238.6	41.8	0.70	1,121.9	34.5	0.35	ZZ
5QR7EN		1,242.0	45.2	0.75	1,186.0	98.6	0.99	ZZ
6S1WR4		1,224.5	27.7	0.46	1,108.0	20.6	0.21	ZZ
7PVSA1		1,311.5	114.7	1.91	1,092.0	4.6	0.05	ZZ
9UKLMX		1,084.5	-112.3	-1.87	1,027.6	-59.8	-0.60	ZZ
BULDXY		1,282.5	85.7	1.42	1,121.0	33.6	0.34	ZZ
CARGDN		1,327.0	130.2	2.16	1,309.5	222.1	2.23	ZZ
CB3QBA		1,223.9	27.1	0.45	1,182.4	95.0	0.96	ZZ
CBNUYV		1,170.0	-26.8	-0.44	1,022.0	-65.4	-0.66	ZZ
CEYNB1		1,203.9	7.1	0.12	1,068.7	-18.7	-0.19	ZZ
CG247Y		1,200.2	3.4	0.06	1,054.4	-33.0	-0.33	ZZ
DX98GW		1,218.5	21.7	0.36	1,088.4	1.0	0.01	ZZ
EAZPF3		1,253.5	56.7	0.94	1,124.0	36.6	0.37	ZZ
GQPZXH		1,237.5	40.7	0.68	1,212.5	125.1	1.26	ZZ
HR19Q7		1,194.5	-2.3	-0.04	1,227.5	140.1	1.41	ZZ
HTFRGY		1,258.0	61.2	1.02	1,169.0	81.6	0.82	ZZ
J7RFQE		1,187.0	-9.8	-0.16	1,070.0	-17.4	-0.17	ZZ
LPGT5K		1,141.0	-55.8	-0.93	1,087.5	0.1	0.00	ZZ
M35LFJ		1,141.5	-55.3	-0.92	1,055.0	-32.4	-0.33	ZZ
MACGZ		1,173.5	-23.3	-0.39	1,003.5	-83.9	-0.84	ZZ
MSGHP4		1,232.5	35.7	0.59	1,183.0	95.6	0.96	ZZ
NWXA4	X	1,496.5	299.7	4.98	1,321.1	233.7	2.35	ZZ
R3L29V		1,173.5	-23.3	-0.39	1,067.5	-19.9	-0.20	ZZ
RUQZ7J	*	1,116.0	-80.8	-1.34	798.0	-289.4	-2.91	ZZ
RX7UJ3		1,235.5	38.7	0.64	1,170.0	82.6	0.83	ZZ
SDQDSU		1,168.3	-28.5	-0.47	1,087.1	-0.3	0.00	ZZ
U48HF8		1,174.0	-22.8	-0.38	917.5	-169.9	-1.71	ZZ
UZXU84		1,166.5	-30.3	-0.50	871.5	-215.9	-2.17	ZZ

**Rubber Interlaboratory Testing Program
Analysis 632**

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

WebCode	Data Flag	Sample C71-C72			Sample L71-L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
X9NQLN		1,221.0	24.2	0.40	1,074.5	-12.9	-0.13	ZZ
XAHFKA		1,190.0	-6.8	-0.11	1,162.5	75.1	0.76	ZZ
YJ948R		1,116.1	-80.7	-1.34	949.3	-138.1	-1.39	ZZ
YNFU16		1,225.0	28.2	0.47	1,150.0	62.6	0.63	ZZ
ZDNT4T		1,137.2	-59.6	-0.99	1,087.4	0.0	0.00	ZZ

Summary Statistics			
Grand Means	1,196.79 psi	1,087.39 psi	
Std Dev Btwn Labs	60.21 psi	99.44 psi	
Statistics based on 38 of 40 reporting participants			

Summary Statistics in SI Units			
Grand Means	8.2515 MPa	7.50 MPa	
Std Dev Btwn Labs	0.4151 MPa	0.69 MPa	
Statistics based on 38 of 40 reporting participants			

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #632

1WU9JK (X) - Low data for Sample Set L71-L72.

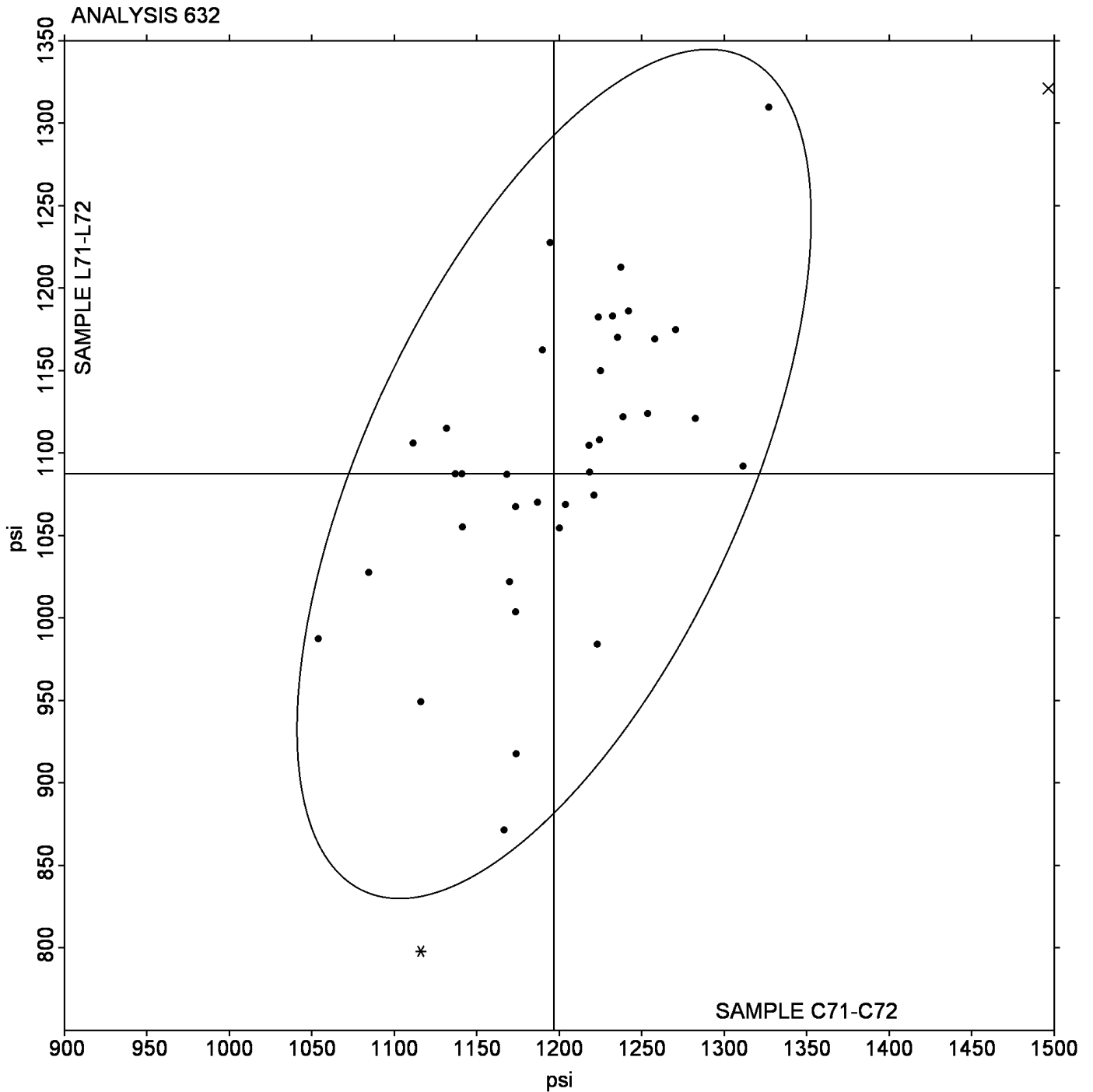
NWXA4H (X) - Low data for Sample Set C71-C72.

Analysis 632

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

Grand Mean Sample C71-C72 = 1,196.79 psi

Grand Mean Sample L71-L72 = 1,087.39 psi



Analysis 633

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

WebCode	Data Flag	Sample C71-C72			Sample L71-L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1A5KHL		240.5	-13.7	-1.11	225.0	-16.5	-0.67	ZZ
1K4AY9		257.5	3.3	0.27	242.5	1.0	0.04	ZZ
1NB28F		253.5	-0.7	-0.06	258.5	17.0	0.69	ZZ
1YQ4NM		245.8	-8.4	-0.68	243.7	2.2	0.09	ZZ
22MRGW		257.5	3.3	0.27	240.0	-1.5	-0.06	ZZ
35A9J7		269.0	14.8	1.20	247.5	6.0	0.24	ZZ
374NF3		263.5	9.3	0.75	216.0	-25.5	-1.03	ZZ
42ANX2		247.0	-7.2	-0.58	238.5	-3.0	-0.12	ZZ
42Q6LE		254.5	0.3	0.02	247.0	5.5	0.22	ZZ
4FQ11U		272.0	17.8	1.44	270.5	29.0	1.17	ZZ
4SH1K5		251.6	-2.6	-0.21	242.2	0.7	0.03	ZZ
5K1DF8		264.7	10.5	0.85	250.2	8.7	0.35	ZZ
6LQK2B		261.0	6.8	0.55	242.5	1.0	0.04	ZZ
6UHWDS		254.5	0.3	0.02	223.5	-18.0	-0.73	ZZ
7465HF		257.9	3.7	0.30	268.4	26.9	1.09	ZZ
85KQ31		245.8	-8.4	-0.68	223.4	-18.1	-0.73	ZZ
8CR741		249.0	-5.2	-0.42	254.5	13.0	0.53	ZZ
8JEXFN		257.0	2.8	0.23	266.5	25.0	1.01	ZZ
B8WLNG		248.3	-5.9	-0.48	237.1	-4.4	-0.18	ZZ
BS64GS	X	309.2	55.0	4.45	291.2	49.7	2.01	ZZ
BYHL91		254.0	-0.2	-0.02	220.0	-21.5	-0.87	ZZ
CARXAF	X	327.5	73.3	5.94	333.0	91.5	3.70	ZZ
CXKNM		248.7	-5.5	-0.44	216.8	-24.6	-1.00	ZZ
EKEDKT		249.2	-5.1	-0.41	236.9	-4.6	-0.19	ZZ
GB8FLP		238.0	-16.2	-1.31	231.5	-10.0	-0.40	ZZ
H793AQ		248.0	-6.2	-0.50	227.0	-14.5	-0.58	ZZ
LCERT9		243.0	-11.2	-0.91	253.0	11.5	0.47	ZZ
NQBRA3		239.5	-14.7	-1.19	262.0	20.5	0.83	ZZ
NXBZ5A	*	256.0	1.8	0.15	193.0	-48.5	-1.96	ZZ
Q7JZN2		252.0	-2.2	-0.18	253.0	11.5	0.47	ZZ
Q97FVP		241.3	-13.0	-1.05	219.5	-22.0	-0.89	ZZ
RRRNBJ	*	235.5	-18.7	-1.52	170.0	-71.5	-2.89	ZZ
S7J55T	*	288.5	34.3	2.78	302.0	60.5	2.45	ZZ
SQ6VSD		265.9	11.7	0.94	254.8	13.4	0.54	ZZ
UUXFU8		248.0	-6.2	-0.50	216.0	-25.5	-1.03	ZZ

**Rubber Interlaboratory Testing Program
Analysis 633**

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

WebCode	Data Flag	Sample C71-C72			Sample L71-L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VIU3VY	*	288.0	33.8	2.74	286.0	44.5	1.80	ZZ
V331K9		260.0	5.8	0.47	245.0	3.5	0.14	ZZ
WFUY8J		256.4	2.2	0.18	243.9	2.5	0.10	ZZ
XKUQRN		232.0	-22.2	-1.80	227.5	-14.0	-0.56	ZZ
YLB94X		265.0	10.8	0.87	280.5	39.0	1.58	ZZ

Grand Means		Summary Statistics	
	254.20 psi		241.47 psi
Std Dev Btwn Labs			
	12.34 psi		24.74 psi
Statistics based on 38 of 40 reporting participants			

Grand Means		Summary Statistics in SI Units	
	1.7526 MPa		1.66 MPa
Std Dev Btwn Labs			
	0.0851 MPa		0.17 MPa
Statistics based on 38 of 40 reporting participants			

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #633

BS64GS (X) - High data for Sample Set C71-C72.

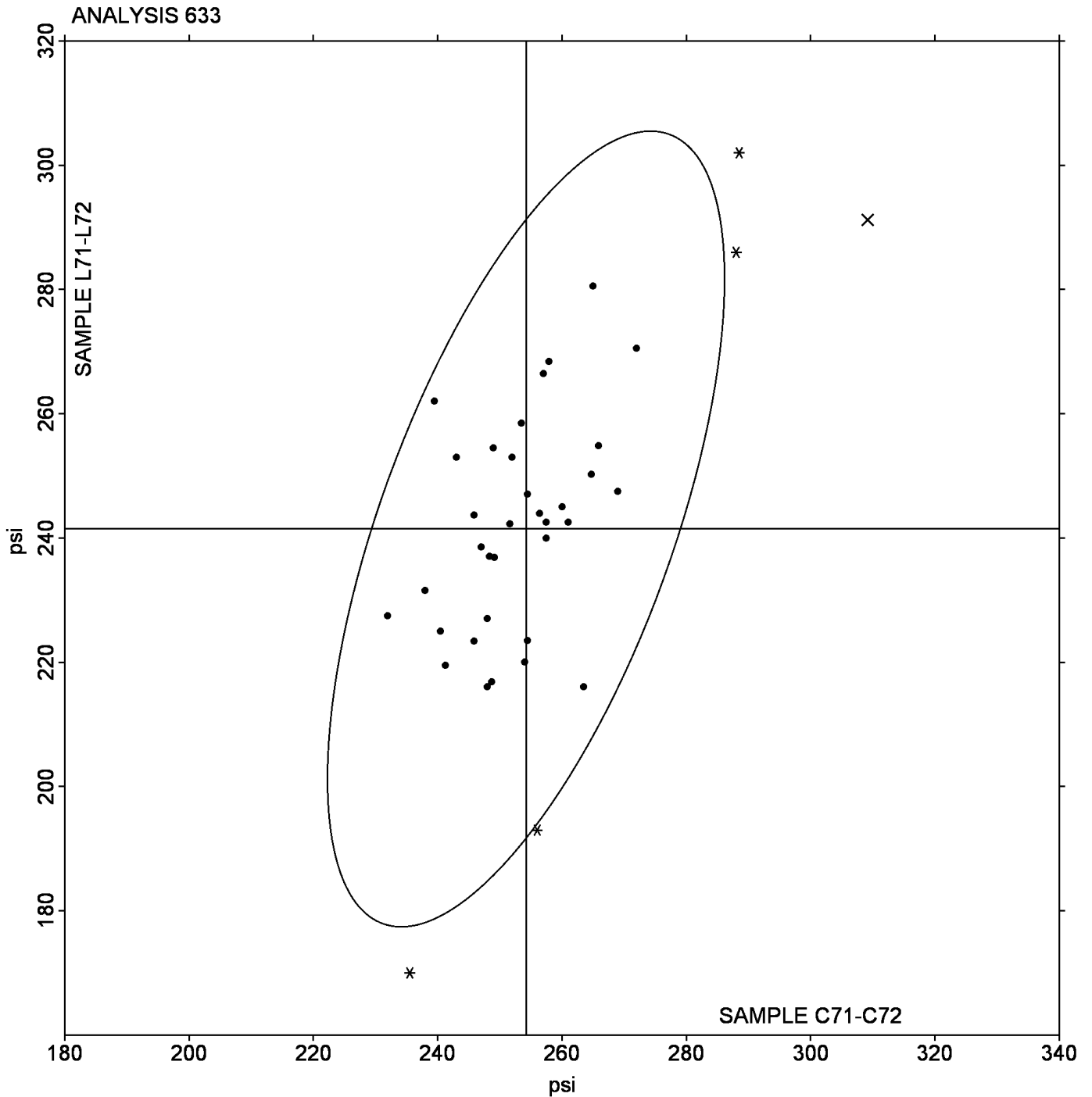
CARXAF (X) - Data for all Samples are high.

Analysis 633

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

Grand Mean Sample C71-C72 = 254.20 psi

Grand Mean Sample L71-L72 = 241.47 psi



Rubber Interlaboratory Testing Program

Analysis 660

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

WebCode	Data Flag	Sample U71-U72			Sample U73-U74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
22YVZ7		44.92	-0.71	-0.82	45.83	-0.51	-0.57	MR
2SGZCD		45.45	-0.18	-0.21	46.08	-0.26	-0.29	MR
5AMRQR		45.23	-0.40	-0.46	45.50	-0.85	-0.95	MR
5D2NZ4		46.22	0.59	0.67	46.72	0.38	0.42	TV
7A3LQS		45.73	0.10	0.12	46.53	0.19	0.21	MR
7CMP5B		45.18	-0.45	-0.51	46.83	0.49	0.55	MR
7RSKPD		46.54	0.91	1.05	47.16	0.81	0.91	TV
7VH4JG		45.75	0.12	0.14	45.97	-0.37	-0.42	MR
87G1FG		45.10	-0.53	-0.61	45.73	-0.61	-0.68	MR
893SJ7		46.24	0.61	0.70	45.61	-0.73	-0.82	MM
8LKSEN		45.62	-0.01	-0.02	46.57	0.23	0.25	MR
BMC3GZ		45.72	0.09	0.10	46.35	0.01	0.01	MR
BZ26J4		46.53	0.90	1.04	47.20	0.86	0.96	MR
DR1KE9		46.00	0.37	0.42	45.42	-0.92	-1.03	MR
E3GXVN		45.27	-0.36	-0.42	46.32	-0.02	-0.03	MR
EZGEN3		46.70	1.07	1.23	47.47	1.13	1.26	ML
G5UHG2		44.02	-1.61	-1.86	45.43	-0.91	-1.01	MP
HFYCLZ		45.29	-0.34	-0.39	46.11	-0.24	-0.26	MR
KBCP5C		47.13	1.50	1.73	47.22	0.88	0.98	MP
LRP31N		45.90	0.27	0.31	47.05	0.71	0.79	MR
MURR93	*	45.98	0.35	0.41	48.07	1.73	1.93	MR
NLCFE3		45.48	-0.15	-0.17	45.85	-0.49	-0.55	MZ
PPP4AE		46.27	0.64	0.73	47.32	0.98	1.09	MR
QPY4GZ		46.05	0.42	0.48	46.32	-0.02	-0.03	MR
QQ3N23		44.24	-1.39	-1.60	45.44	-0.90	-1.00	XX
QU6ERE		45.23	-0.40	-0.46	46.50	0.16	0.18	MR
RP5X8U		44.90	-0.73	-0.84	45.30	-1.04	-1.16	MR
SBTAG1		45.38	-0.25	-0.28	47.20	0.86	0.96	MM
UJ52GB		44.69	-0.94	-1.08	44.87	-1.47	-1.64	TV
UNYRD4		45.22	-0.41	-0.48	46.28	-0.06	-0.06	MR
VW81DM		44.52	-1.11	-1.28	45.33	-1.01	-1.13	MR
VW8AFZ		46.43	0.80	0.92	46.62	0.28	0.31	MR
X7NHCX		45.12	-0.51	-0.59	46.17	-0.17	-0.20	MR
Y3QCF6	X	29.43	-16.20	-18.62	29.10	-17.24	-19.27	MR
Y6L2QY	*	47.94	2.31	2.66	48.65	2.31	2.58	XX

**Rubber Interlaboratory Testing Program
Analysis 660**

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

WebCode	Data Flag	Sample U71-U72			Sample U73-U74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ZES1WE		45.37	-0.26	-0.30	45.53	-0.81	-0.90	MR
ZNHU3J		47.08	1.45	1.67	47.52	1.18	1.31	MR
ZSKRPX		43.88	-1.75	-2.01	44.58	-1.76	-1.97	MM

		Summary Statistics	
Grand Means	45.630 ML 1 + 4	46.341 ML 1 + 4	
Std Dev Btwn Labs	0.870 ML 1 + 4	0.895 ML 1 + 4	
Statistics based on 37 of 38 reporting participants			

Samples U71-U72: SBR & U73-U74: Butyl

Comments on assigned Data Flags for Test #660

Y3QCF6 (X) - Data for all Samples are low.

Instrument Code Listing

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

Instruments:

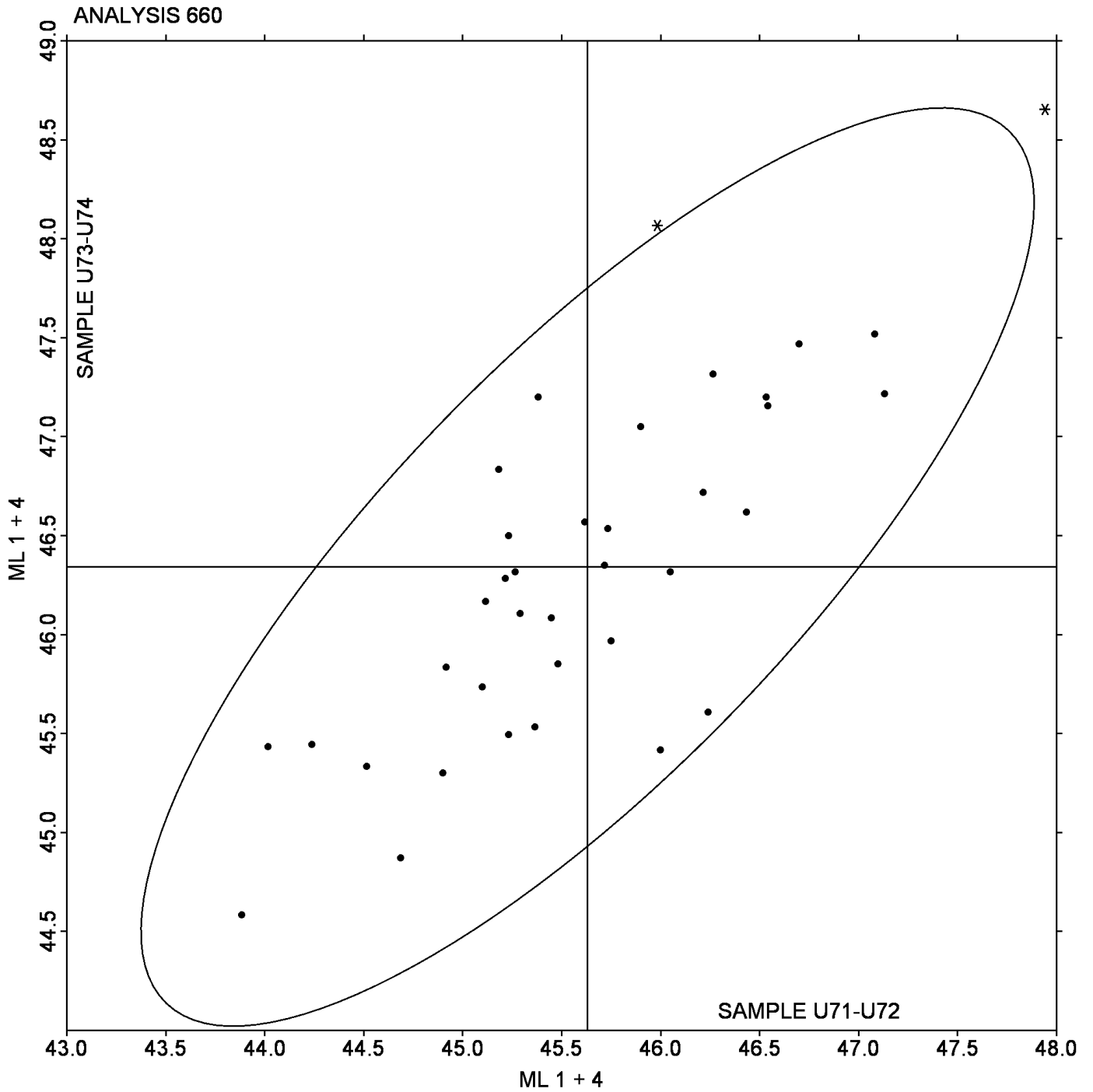
- | | |
|--|--|
| (ML) Alpha Technologies/Monsanto model not specified | (MM) Alpha Technologies Model 1xxx or OSM |
| (MP) Monsanto Compact Mooney Viscometer | (MR) Alpha Technologies Model MV2000/MV2000E |
| (MZ) Rebuilt Monsanto Mooney Viscometer | (SF) Scott STI (any model) |
| (TV) Tech Pro Visc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

Analysis 660

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

Grand Mean Sample U71-U72 = 45.630 ML 1 + 4

Grand Mean Sample U73-U74 = 46.341 ML 1 + 4



Analysis 661

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

WebCode	Data Flag	Sample U71-U72			Sample U73-U74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
197W2P		45.10	-0.57	-0.65	44.33	-0.25	-0.27	MR
394DAR		45.62	-0.05	-0.06	44.75	0.16	0.17	MR
3CK85H		46.54	0.87	1.00	45.44	0.85	0.90	TV
4RJPA		46.24	0.57	0.65	44.24	-0.35	-0.37	MM
767UGV		45.27	-0.40	-0.46	44.72	0.13	0.14	MR
8CB6GL		44.24	-1.43	-1.63	43.73	-0.86	-0.91	XX
8DM83K		46.43	0.76	0.87	44.60	0.01	0.01	TV
9E57GT		45.23	-0.44	-0.50	44.87	0.28	0.29	MR
9H18ZB		44.90	-0.77	-0.88	43.38	-1.20	-1.27	MR
BAJD8X		44.92	-0.75	-0.86	44.18	-0.40	-0.43	MR
BJ1KRP		45.73	0.06	0.07	44.73	0.15	0.15	MR
BLEVW8		47.08	1.41	1.61	45.72	1.13	1.19	MR
BTED74		46.53	0.86	0.99	45.43	0.85	0.89	MR
CMQ16G		45.12	-0.55	-0.63	44.68	0.10	0.10	MR
DG6Y9Q		46.27	0.60	0.68	45.83	1.25	1.31	MR
GRRT5F		43.88	-1.79	-2.04	42.65	-1.94	-2.04	MM
H5L8GP		45.90	0.23	0.26	45.37	0.78	0.82	MR
JXXA4D		45.23	-0.44	-0.50	44.13	-0.46	-0.48	MR
KKF5D4		45.75	0.08	0.09	44.53	-0.05	-0.06	MR
MKG6KV		46.70	1.03	1.18	45.65	1.06	1.12	XX
MLFPN3	*	45.98	0.31	0.36	46.42	1.83	1.93	MR
N79WVQ		45.37	-0.30	-0.35	43.98	-0.60	-0.64	MR
PEGZVV		45.18	-0.49	-0.55	43.85	-0.74	-0.78	MR
PL5RA4		45.38	-0.29	-0.33	44.00	-0.59	-0.62	MM
Q46VSY		45.48	-0.19	-0.21	43.35	-1.24	-1.30	MZ
QL9CYX		46.00	0.33	0.38	43.65	-0.94	-0.99	MR
QLZSK1		46.05	0.38	0.43	44.60	0.01	0.01	MR
QTM69T		44.52	-1.15	-1.31	43.82	-0.77	-0.81	MR
TF7D8G		45.72	0.05	0.05	44.77	0.18	0.19	MR
WWY1X		45.29	-0.38	-0.43	43.86	-0.73	-0.77	MR
XVYZ9Y		47.13	1.46	1.67	44.73	0.15	0.15	MP
Y3TF6G		45.45	-0.22	-0.25	44.53	-0.05	-0.06	MR
YAGTVA		46.22	0.55	0.62	46.10	1.51	1.60	TV
ZUQ8TV	*	47.94	2.27	2.59	46.85	2.27	2.39	XX
ZYPU8J		44.02	-1.65	-1.89	43.07	-1.52	-1.60	MM

Analysis 661

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

Summary Statistics**Grand Means**

45.669 ML 1 + 8

44.587 ML 1 + 8

Std Dev Btwn Labs

0.877 ML 1 + 8

0.949 ML 1 + 8

Statistics based on 35 of 35 reporting participants

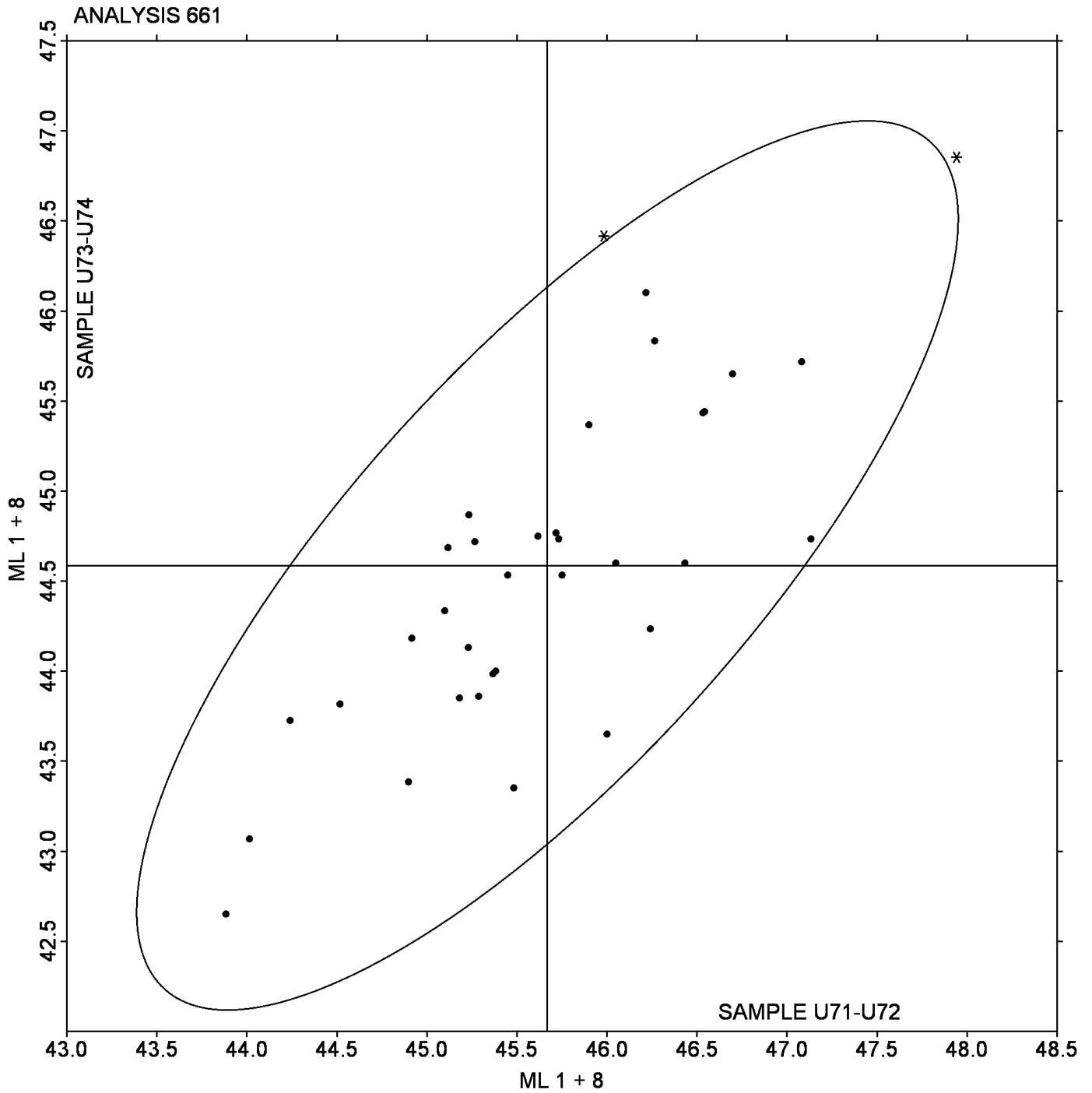
Please refer to the sample information provided for Analysis 660.

Analysis 661

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

Grand Mean Sample U71-U72 = 45.669 ML 1 + 8

Grand Mean Sample U73-U74 = 44.587 ML 1 + 8



Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Y71-Y72			Sample Y73-Y74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
12MD93		1.345	-0.001	0.00	2.440	-0.047	-0.10	ZZ
5A6F97		1.562	0.216	0.89	2.837	0.350	0.72	ZZ
7H4RS9		1.310	-0.036	-0.15	2.413	-0.073	-0.15	ZZ
7M1X4D		1.663	0.318	1.32	2.995	0.508	1.04	ZZ
7ML1RY		1.258	-0.087	-0.36	2.467	-0.020	-0.04	ZZ
ALVJ8F		0.788	-0.557	-2.31	1.422	-1.065	-2.18	ZZ
BJQQ9G		1.402	0.056	0.23	2.533	0.047	0.10	ZZ
DP1QAJ		1.315	-0.031	-0.13	2.533	0.047	0.10	ZZ
E3NN3E	*	0.783	-0.562	-2.33	1.072	-1.415	-2.90	ZZ
EXUAZH		1.283	-0.062	-0.26	2.567	0.080	0.16	ZZ
JK26R7		1.247	-0.099	-0.41	2.544	0.057	0.12	ZZ
NSB8M6		1.473	0.128	0.53	2.698	0.212	0.43	ZZ
RFKJPN		1.493	0.148	0.61	2.682	0.195	0.40	ZZ
UPL3NL		1.287	-0.059	-0.24	2.345	-0.142	-0.29	ZZ
VELHPS		1.317	-0.029	-0.12	2.792	0.305	0.62	ZZ
W28BWK		1.620	0.274	1.14	2.773	0.287	0.59	ZZ
ZB5PVN		1.535	0.189	0.78	2.748	0.262	0.54	ZZ
ZQDSMH		1.538	0.193	0.80	2.902	0.415	0.85	ZZ

Summary Statistics

Grand Means

1.3456 minutes

2.4868 minutes

Std Dev Btwn Labs

0.2415 minutes

0.4886 minutes

Statistics based on 18 of 18 reporting participants

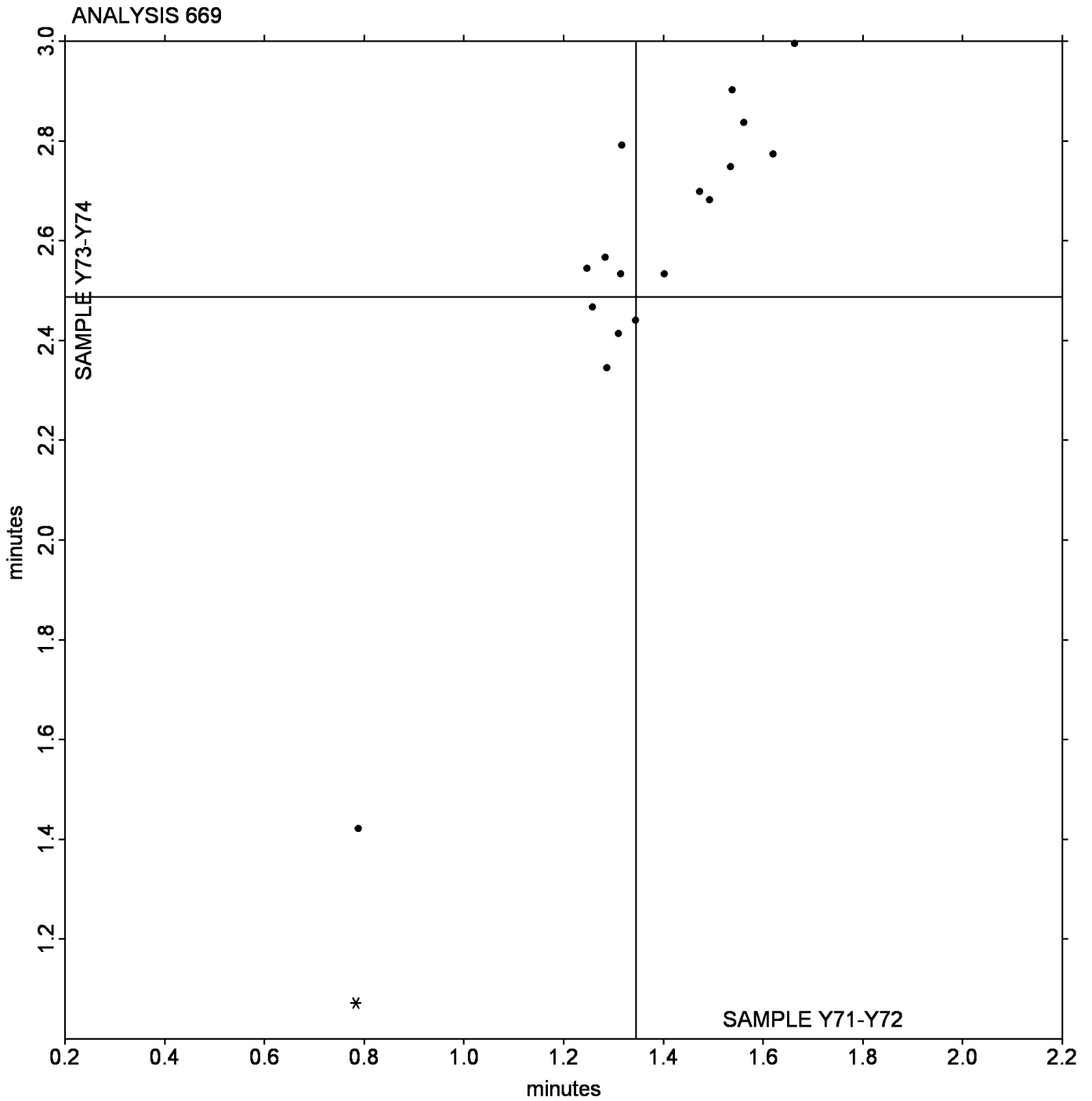
Samples Y71-Y72: EPDM compound #1 & Y73-Y74: EPDM compound #2

Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample Y71-Y72 = 1.3456 minutes

Grand Mean Sample Y73-Y74 = 2.4868 minutes



Rubber Interlaboratory Testing Program

Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Y71-Y72			Sample Y73-Y74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
43GUVG		1.242	0.223	1.25	2.227	0.297	0.91	ZZ
4YCRNE		1.167	0.148	0.83	2.240	0.310	0.96	ZZ
5DYXEL		0.658	-0.360	-2.01	1.178	-0.751	-2.31	ZZ
5JT4FN		1.043	0.025	0.14	1.757	-0.173	-0.53	ZZ
7JUSFK		0.932	-0.087	-0.48	2.086	0.156	0.48	ZZ
7L7EEB		1.067	0.048	0.27	2.283	0.354	1.09	ZZ
8FJGU1		0.908	-0.110	-0.61	1.892	-0.038	-0.12	ZZ
B27WJS		1.008	-0.010	-0.06	1.963	0.034	0.10	ZZ
E1TLUW		1.282	0.263	1.47	2.248	0.319	0.98	ZZ
F5HLBW		1.115	0.097	0.54	1.977	0.047	0.14	ZZ
FCGXXU		0.945	-0.073	-0.41	1.630	-0.300	-0.92	ZZ
K3P7UX		1.248	0.230	1.28	2.070	0.140	0.43	ZZ
N5LJUJZ		1.147	0.128	0.72	2.038	0.109	0.33	ZZ
PHEF8Q		0.942	-0.077	-0.43	1.675	-0.255	-0.78	ZZ
PLS38G		0.903	-0.115	-0.64	1.943	0.014	0.04	ZZ
QBY2JR		0.965	-0.053	-0.30	1.838	-0.091	-0.28	ZZ
QUD1J2	*	0.513	-0.505	-2.82	0.932	-0.998	-3.07	ZZ
QXDT97		0.900	-0.118	-0.66	2.117	0.187	0.58	ZZ
RDYR46		0.963	-0.055	-0.31	2.035	0.105	0.32	ZZ
RH6ASD		1.065	0.047	0.26	2.090	0.160	0.49	ZZ
X1WRVX		1.107	0.088	0.49	1.817	-0.113	-0.35	ZZ
XK21GS		1.208	0.190	1.06	2.098	0.169	0.52	ZZ
XXEX2N		0.957	-0.062	-0.34	2.223	0.294	0.90	ZZ
YTC868		1.153	0.135	0.75	1.958	0.029	0.09	ZZ

Grand Means		Summary Statistics	
	1.0183 minutes		1.9298 minutes
Std Dev Btwn Labs			
	0.1793 minutes		0.3247 minutes
Statistics based on 24 of 24 reporting participants			

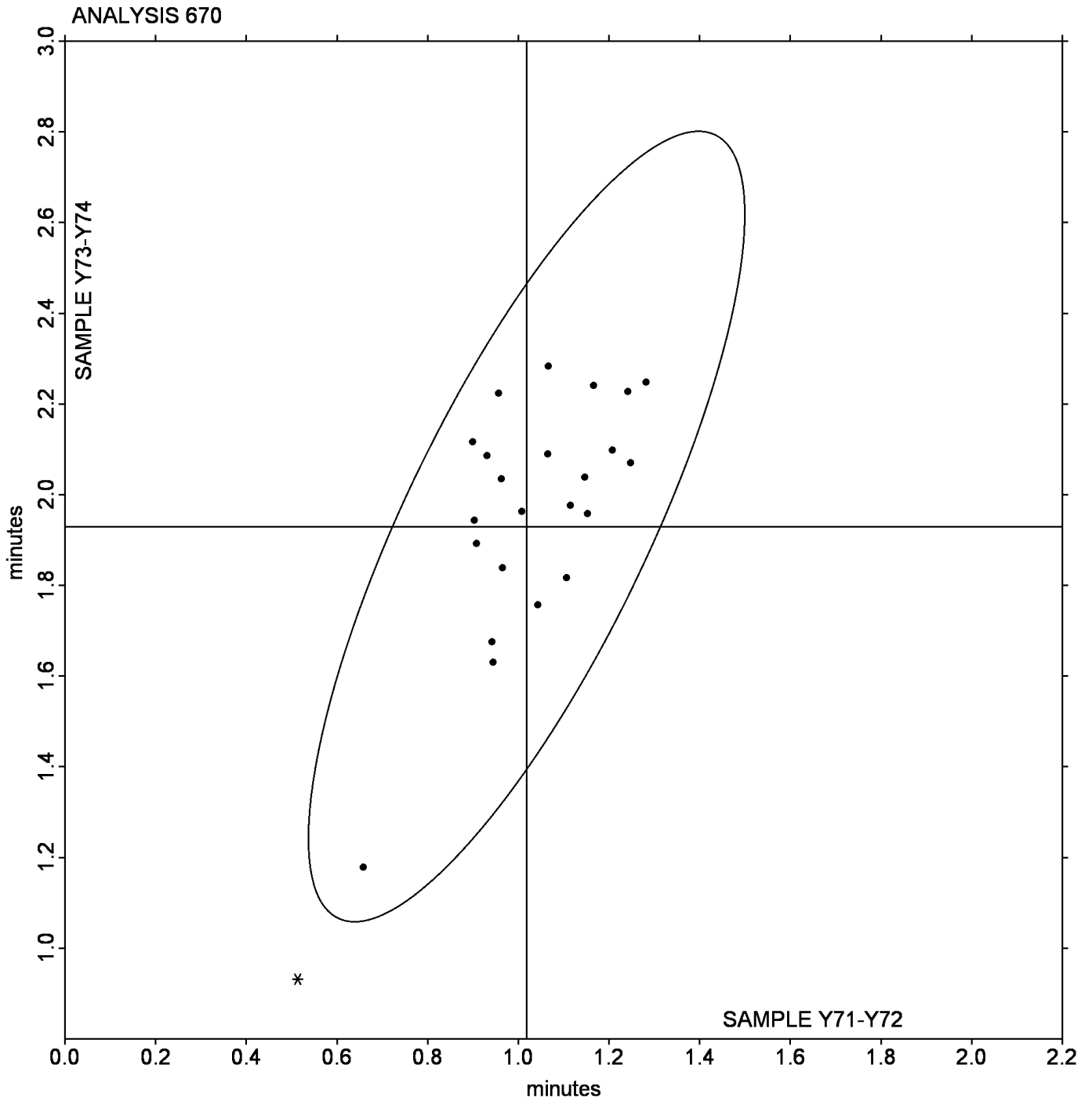
Samples Y71-Y72: EPDM compound #1 & Y73-Y74: EPDM compound #2

Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

Grand Mean Sample Y71-Y72 = 1.0183 minutes

Grand Mean Sample Y73-Y74 = 1.9298 minutes



Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Y71-Y72			Sample Y73-Y74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3E61QZ		2.752	-0.057	-0.13	4.995	0.018	0.02	ZZ
3GE77K		3.068	0.260	0.60	5.517	0.540	0.65	ZZ
3KZ4UQ		2.877	0.068	0.16	5.135	0.158	0.19	ZZ
4HR2SR		2.717	-0.092	-0.21	4.833	-0.144	-0.17	ZZ
6154VH		3.220	0.411	0.96	5.542	0.565	0.68	ZZ
6WTR1K	*	1.592	-1.217	-2.83	2.453	-2.524	-3.03	ZZ
86Y1A6		2.550	-0.259	-0.60	4.823	-0.154	-0.18	ZZ
978E8Z		2.607	-0.202	-0.47	4.763	-0.214	-0.26	ZZ
CFX7GU		2.743	-0.065	-0.15	4.822	-0.155	-0.19	ZZ
DD9VF3		2.883	0.075	0.17	5.117	0.140	0.17	ZZ
EVSL13		3.140	0.331	0.77	5.387	0.410	0.49	ZZ
EZ2TBF		2.937	0.128	0.30	5.708	0.731	0.88	ZZ
F3VTSF		2.677	-0.132	-0.31	4.855	-0.122	-0.15	ZZ
GV7KRW		2.883	0.075	0.17	5.377	0.400	0.48	ZZ
LV7JR1		2.762	-0.047	-0.11	5.120	0.143	0.17	ZZ
QMK52B		2.727	-0.082	-0.19	4.907	-0.070	-0.08	ZZ
SSTLNR		3.058	0.250	0.58	5.483	0.506	0.61	ZZ
T2EYRG	X	3.838	1.030	2.39	5.428	0.451	0.54	ZZ
TGLQ51		2.857	0.048	0.11	5.172	0.195	0.23	ZZ
U9U5XC		3.180	0.371	0.86	5.383	0.406	0.49	ZZ
W3F4DS		2.725	-0.084	-0.19	4.739	-0.238	-0.29	ZZ
XYQRTG		2.818	0.010	0.02	4.728	-0.249	-0.30	ZZ
Y921QT	*	1.717	-1.092	-2.54	2.660	-2.317	-2.78	ZZ
YPC6VD		3.523	0.715	1.66	6.123	1.146	1.37	ZZ
ZR1FQK		3.393	0.585	1.36	5.807	0.830	1.00	ZZ

Grand Means		Summary Statistics	
	2.8085 minutes		4.9770 minutes
Std Dev Btwn Labs			0.8338 minutes
	0.4306 minutes		
Statistics based on 24 of 25 reporting participants			

Samples Y71-Y72: EPDM compound #1 & Y73-Y74: EPDM compound #2

Comments on assigned Data Flags for Test #671

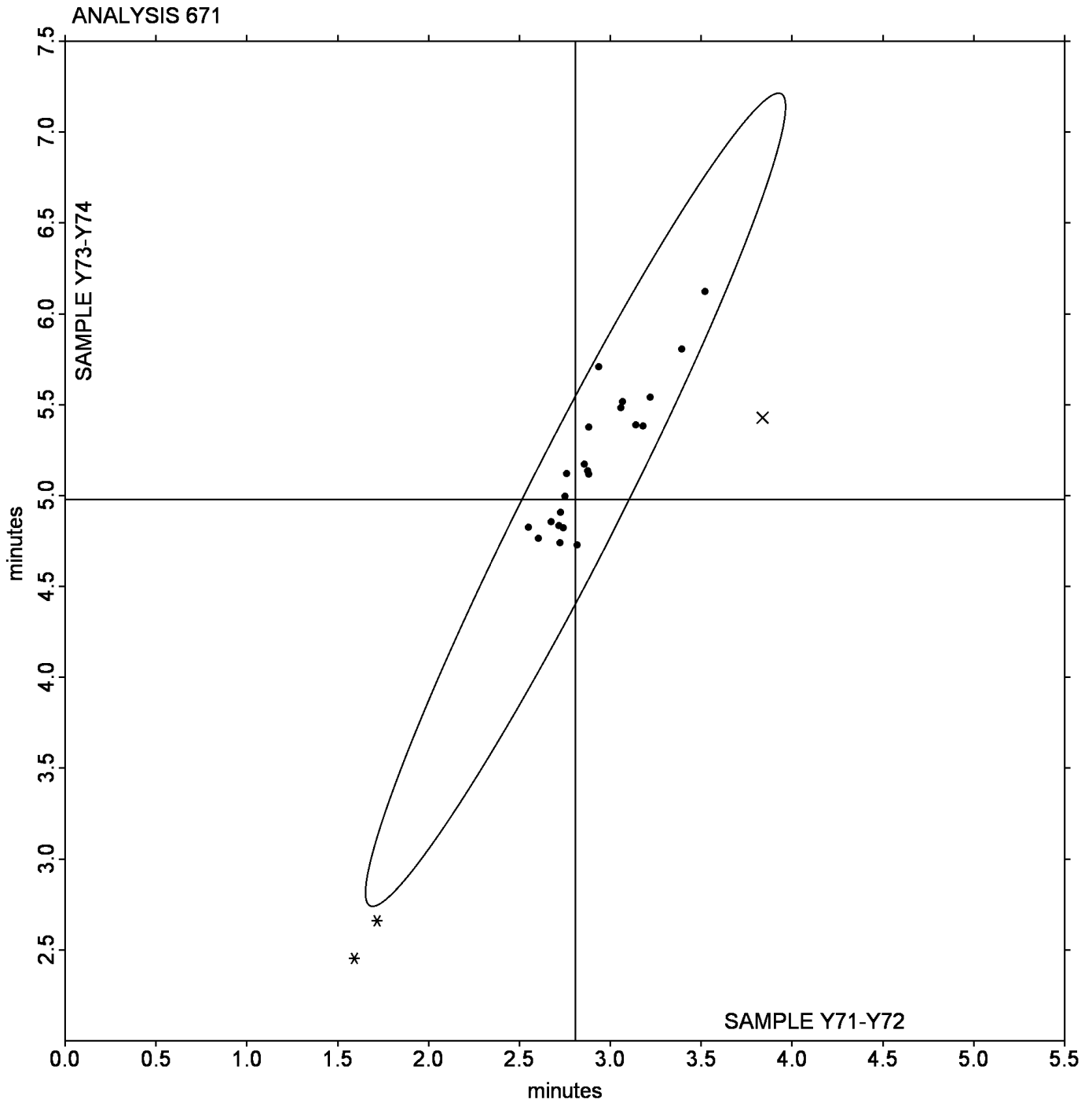
T2EYRG (X) - Inconsistency in testing between Sample sets.

Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample Y71-Y72 = 2.8085 minutes

Grand Mean Sample Y73-Y74 = 4.9770 minutes



Rubber Interlaboratory Testing Program

Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Y71-Y72			Sample Y73-Y74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3UCZ5B		12.55	0.83	0.39	9.160	0.237	0.14	ZZ
4JR4SG		11.77	0.05	0.02	7.995	-0.928	-0.57	ZZ
75PYP7		10.50	-1.22	-0.57	8.175	-0.748	-0.46	ZZ
831MMG		13.21	1.50	0.70	9.289	0.365	0.22	ZZ
89K172	*	16.93	5.21	2.45	10.752	1.828	1.11	ZZ
9Z2JW7		12.39	0.68	0.32	10.183	1.260	0.77	ZZ
A5ZVQH		12.04	0.32	0.15	9.220	0.297	0.18	ZZ
BCYXSG		12.81	1.09	0.51	9.290	0.367	0.22	ZZ
CRFYCD	*	5.74	-5.97	-2.81	4.052	-4.872	-2.97	ZZ
EAQ9AM		11.33	-0.39	-0.18	8.690	-0.233	-0.14	ZZ
GFMRLR		12.44	0.72	0.34	8.882	-0.042	-0.03	ZZ
GUKR6E		11.02	-0.69	-0.33	9.117	0.193	0.12	ZZ
GYTAUL		12.55	0.83	0.39	10.007	1.083	0.66	ZZ
HGV6HP		11.73	0.02	0.01	9.270	0.347	0.21	ZZ
HVDWE6		12.18	0.46	0.22	9.542	0.618	0.38	ZZ
J17238		12.27	0.56	0.26	8.632	-0.292	-0.18	ZZ
J647VY		12.18	0.46	0.22	9.913	0.990	0.60	ZZ
K45JST		10.89	-0.83	-0.39	9.653	0.730	0.44	ZZ
LYXEGK		10.26	-1.45	-0.68	9.080	0.157	0.10	ZZ
T6X612		11.15	-0.57	-0.27	9.183	0.260	0.16	ZZ
TPELMQ		12.79	1.08	0.51	10.105	1.182	0.72	ZZ
XN349E		13.51	1.79	0.84	10.772	1.848	1.13	ZZ
Y9HMEQ		12.43	0.71	0.33	9.057	0.133	0.08	ZZ
YESDRG		11.91	0.20	0.09	9.218	0.295	0.18	ZZ
YX8K1S	*	6.32	-5.40	-2.53	3.845	-5.078	-3.09	ZZ

Summary Statistics	
Grand Means	
11.716 minutes	8.9232 minutes
Std Dev Btwn Labs	
2.129 minutes	1.6414 minutes
Statistics based on 25 of 25 reporting participants	

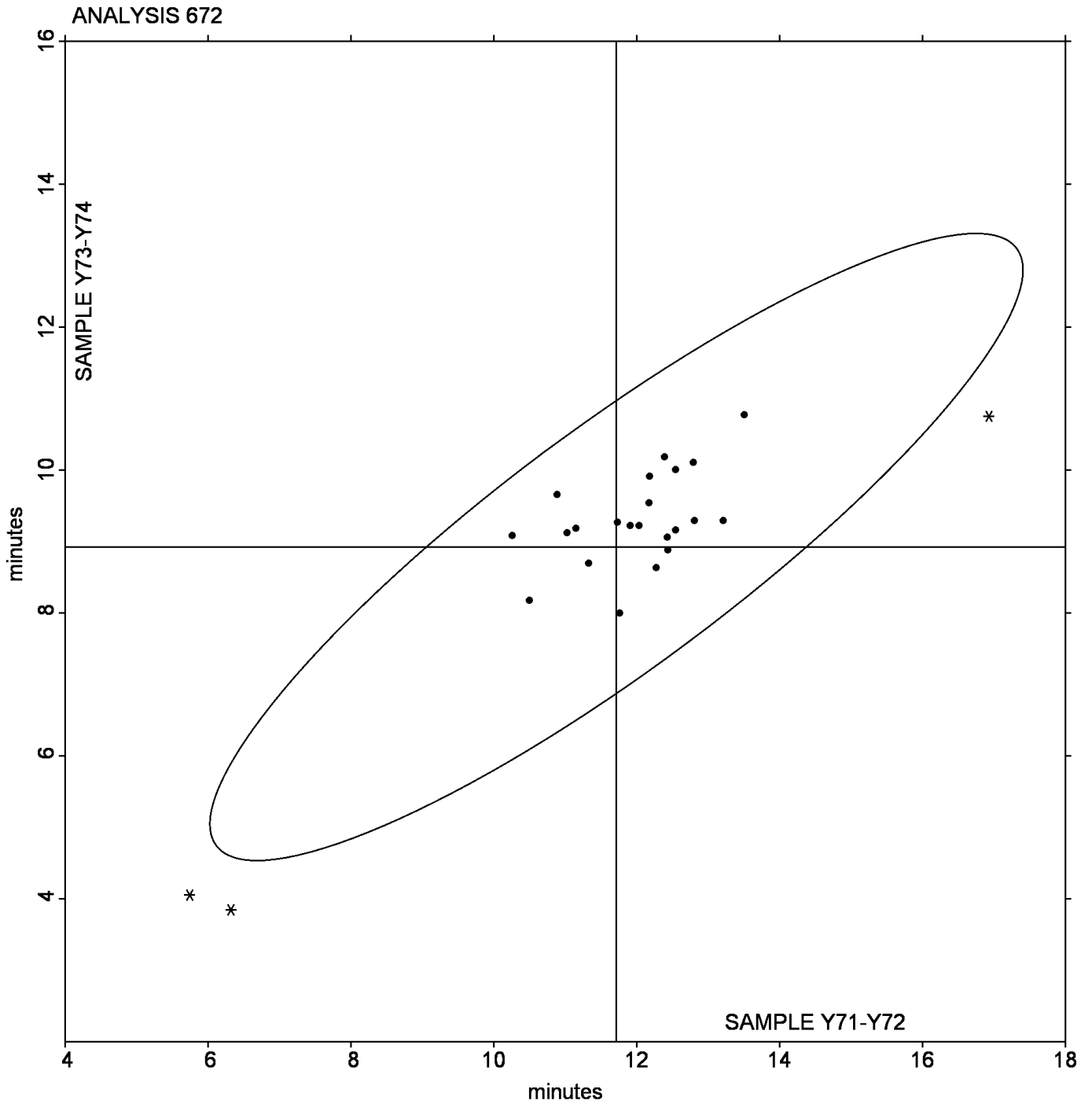
Samples Y71-Y72: EPDM compound #1 & Y73-Y74: EPDM compound #2

Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Y71-Y72 = 11.716 minutes

Grand Mean Sample Y73-Y74 = 8.9232 minutes



Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Y71-Y72			Sample Y73-Y74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
24XF7D	*	14.293	5.835	2.24	14.97	3.83	0.93	ZZ
3WJ8J2		9.772	1.313	0.50	15.79	4.65	1.12	ZZ
4HF26H		7.697	-0.762	-0.29	13.20	2.06	0.50	ZZ
5DDL8V8		7.567	-0.892	-0.34	8.08	-3.05	-0.74	ZZ
7F4E7V		7.968	-0.490	-0.19	11.17	0.03	0.01	ZZ
8BRDXF		7.388	-1.070	-0.41	7.96	-3.18	-0.77	ZZ
8EAAJK		6.920	-1.538	-0.59	9.49	-1.65	-0.40	ZZ
9ZAYM1	*	14.562	6.103	2.34	15.48	4.34	1.05	ZZ
AC1WHX		6.495	-1.963	-0.75	7.03	-4.11	-0.99	ZZ
ARD9FW		8.470	0.012	0.00	13.12	1.98	0.48	ZZ
C6NVYC		7.790	-0.668	-0.26	13.27	2.13	0.51	ZZ
EVZFA1		7.305	-1.153	-0.44	8.38	-2.75	-0.67	ZZ
G9MQHY		7.575	-0.883	-0.34	8.28	-2.86	-0.69	ZZ
GDWWT		6.627	-1.832	-0.70	6.61	-4.53	-1.10	ZZ
K3HQ7B		8.163	-0.295	-0.11	11.81	0.67	0.16	ZZ
LXYKQ		8.438	-0.021	-0.01	16.09	4.96	1.20	ZZ
NX1K77		7.467	-0.992	-0.38	12.55	1.41	0.34	ZZ
QZ5LUQ		6.695	-1.763	-0.68	10.59	-0.55	-0.13	ZZ
SVMQX		8.055	-0.403	-0.15	9.29	-1.85	-0.45	ZZ
THTTAR		7.860	-0.598	-0.23	9.54	-1.60	-0.39	ZZ
U1RKBX		6.580	-1.878	-0.72	6.80	-4.34	-1.05	ZZ
V1CYEL		7.633	-0.825	-0.32	8.29	-2.85	-0.69	ZZ
WBF8Q		7.078	-1.380	-0.53	8.23	-2.91	-0.70	ZZ
XZNMK5	*	16.285	7.827	3.00	24.79	13.65	3.30	ZZ
ZHF36D		6.773	-1.685	-0.65	7.67	-3.47	-0.84	ZZ

Grand Means		Summary Statistics	
	8.4582 lbf.in		11.138 lbf.in
Std Dev Btwn Labs			4.134 lbf.in
	2.6047 lbf.in	Statistics based on 25 of 25 reporting participants	

**Rubber Interlaboratory Testing Program
Analysis 673**

ODR Vulcanization: Minimum Torque (lbf.in)

		Summary Statistics in SI Units	
Grand Means	9.5565 dN.m	12.584	dN.m
Stnd Dev Btwn Labs	2.9429 dN.m	4.671	dN.m

Statistics based on 25 of 25 reporting participants

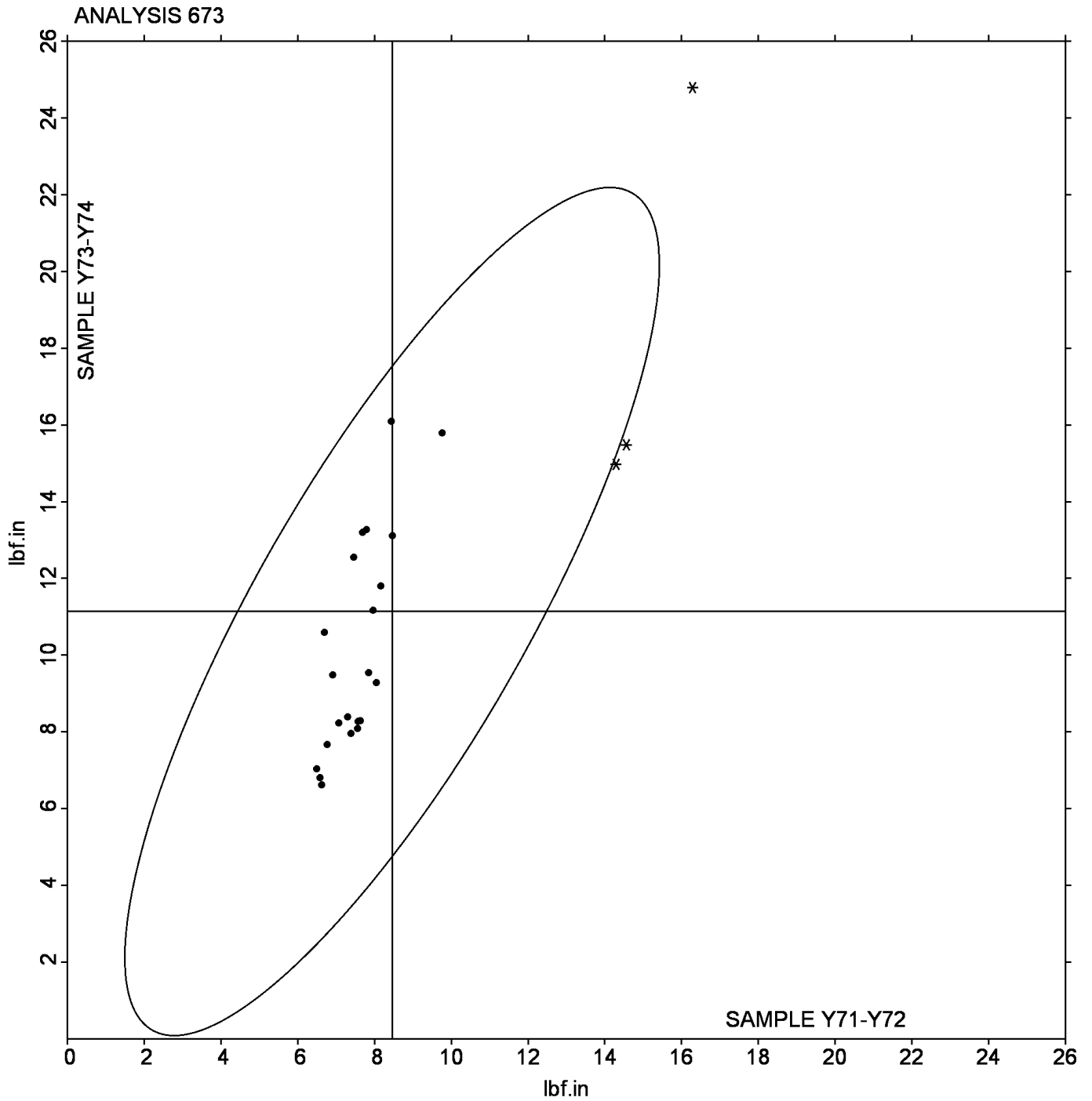
Samples Y71-Y72: EPDM compound #1 & Y73-Y74: EPDM compound #2

Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Y71-Y72 = 8.4582 lbf.in

Grand Mean Sample Y73-Y74 = 11.138 lbf.in



Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Y71-Y72			Sample Y73-Y74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2TTZ7N		37.60	1.36	0.85	32.80	0.81	0.48	ZZ
423Y1P		35.07	-1.16	-0.73	31.91	-0.09	-0.05	ZZ
7Y9MX8	X	74.40	38.16	23.82	61.31	29.31	17.29	ZZ
8VZL6N		36.90	0.66	0.41	31.72	-0.27	-0.16	ZZ
9HCE66		35.21	-1.03	-0.64	32.71	0.71	0.42	ZZ
9Z75UU	X	46.25	10.01	6.25	44.23	12.23	7.22	ZZ
A8SJSB		35.91	-0.33	-0.21	33.65	1.65	0.97	ZZ
AASTL1		38.17	1.93	1.20	32.38	0.39	0.23	ZZ
ACUSL7		36.18	-0.06	-0.03	30.90	-1.09	-0.64	ZZ
AGYVS9		36.01	-0.22	-0.14	31.55	-0.44	-0.26	ZZ
CCTM9V	X	79.55	43.31	27.04	64.03	32.04	18.90	ZZ
DZPFC4		36.01	-0.23	-0.14	34.93	2.94	1.73	ZZ
GZBNXY		35.56	-0.68	-0.42	31.57	-0.43	-0.25	ZZ
J44HPW	*	40.20	3.97	2.48	33.21	1.21	0.72	ZZ
K52F1H		35.81	-0.43	-0.27	30.31	-1.68	-0.99	ZZ
KTDN1T		37.20	0.96	0.60	31.79	-0.21	-0.12	ZZ
MK3TKJ		39.78	3.54	2.21	36.12	4.12	2.43	ZZ
R5MPPX		34.65	-1.59	-0.99	30.36	-1.63	-0.96	ZZ
SAUXM1		35.69	-0.55	-0.34	31.42	-0.57	-0.34	ZZ
SNXUGE		37.15	0.91	0.57	34.15	2.16	1.27	ZZ
T3BEXB		35.04	-1.20	-0.75	30.22	-1.78	-1.05	ZZ
W8G3BQ		34.04	-2.20	-1.37	28.87	-3.12	-1.84	ZZ
Y4DTNT		35.75	-0.49	-0.31	31.78	-0.22	-0.13	ZZ
YZ9CRX		34.95	-1.29	-0.80	31.48	-0.51	-0.30	ZZ
ZBWZYB		34.36	-1.88	-1.17	30.03	-1.97	-1.16	ZZ

Grand Means

36.237 lbf.in

Summary Statistics

31.993 lbf.in

Std Dev Btwn Labs

1.602 lbf.in

1.695 lbf.in

Statistics based on 22 of 25 reporting participants

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

Grand Means		Summary Statistics in SI Units	
	40.942 dN.m		36.147 dN.m
Std Dev Btwn Labs			
	1.810 dN.m		1.915 dN.m

Statistics based on 22 of 25 reporting participants

Samples Y71-Y72: EPDM compound #1 & Y73-Y74: EPDM compound #2

Comments on assigned Data Flags for Test #674

7Y9MX8 (X) - Data for all Samples are high.

9Z75UU (X) - Data for all Samples are high.

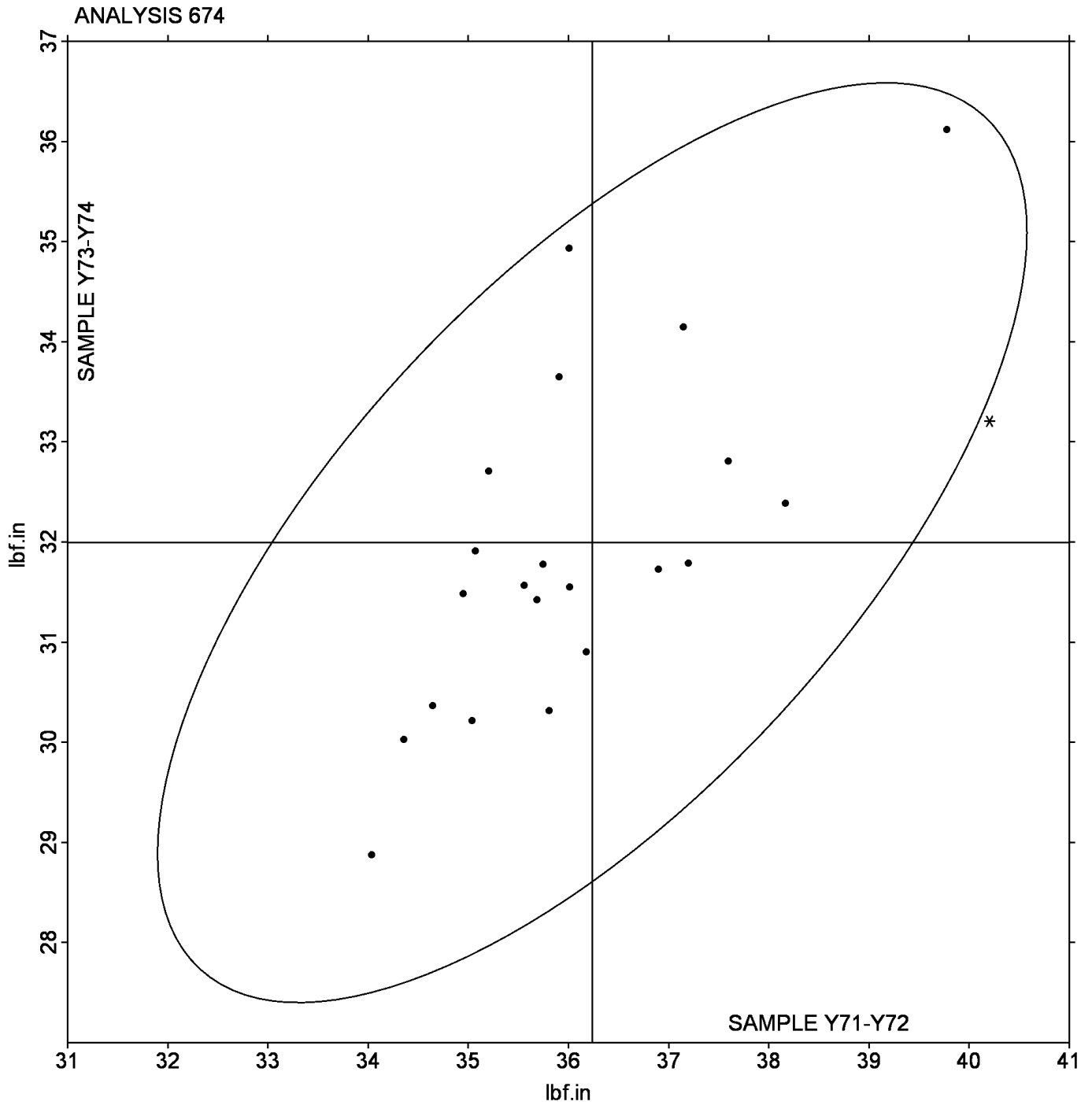
CCTM9V (X) - Data for all Samples are high.

Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Y71-Y72 = 36.237 lbf.in

Grand Mean Sample Y73-Y74 = 31.993 lbf.in



Rubber Interlaboratory Testing Program

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
13Y3J7		1.870	0.020	0.24	1.843	0.042	0.49	MC
1S6YVM	*	1.787	-0.063	-0.77	1.650	-0.151	-1.76	TP
2ATDNA		1.918	0.068	0.83	1.870	0.069	0.80	MC
2GHK79		1.945	0.095	1.16	1.853	0.052	0.60	MC
3SBPVV		1.962	0.112	1.36	1.923	0.122	1.42	MC
4SD92F		1.740	-0.110	-1.34	1.710	-0.091	-1.06	MC
894M6J		1.812	-0.038	-0.47	1.795	-0.006	-0.07	MC
99C71C		1.775	-0.075	-0.92	1.708	-0.093	-1.08	MC
9RL16T		1.763	-0.087	-1.06	1.702	-0.100	-1.16	MC
BYDHPP		1.953	0.103	1.26	1.912	0.110	1.28	XX
C65RHZ		1.877	0.027	0.32	1.845	0.044	0.51	TP
CZ7LZ4	X	0.942	-0.908	-11.08	0.887	-0.915	-10.65	MC
DAMV3N		2.023	0.173	2.11	1.918	0.117	1.36	TP
EKG27Y		1.848	-0.002	-0.02	1.795	-0.006	-0.07	MC
GU4NHE		1.770	-0.080	-0.98	1.712	-0.090	-1.05	TP
H9BMZ4		1.811	-0.039	-0.47	1.814	0.013	0.15	MC
JUJ45Q		1.883	0.033	0.41	1.840	0.039	0.45	MC
KRU3HR		1.787	-0.063	-0.77	1.775	-0.026	-0.31	MD
KUTLDX		1.687	-0.163	-1.99	1.627	-0.175	-2.04	MP
N1QTPN		1.862	0.012	0.14	1.787	-0.015	-0.17	MD
N5J7HJ		1.788	-0.062	-0.75	1.712	-0.090	-1.05	MC
NPNKJX		1.928	0.078	0.95	1.888	0.087	1.01	MD
PBA5UY		1.965	0.115	1.40	1.945	0.144	1.67	MC
Q7KHHX		1.835	-0.015	-0.18	1.765	-0.036	-0.42	MC
S8IH8A		1.840	-0.010	-0.12	1.818	0.017	0.20	MC
SB89JK		1.780	-0.070	-0.85	1.710	-0.091	-1.06	MC
U9YEXQ	X	0.797	-1.053	-12.85	0.740	-1.061	-12.36	MC
UVZMET		1.773	-0.077	-0.94	1.790	-0.011	-0.13	MC
WTZQ2Y		1.938	0.088	1.08	1.893	0.092	1.07	MC
YFGCE7		1.881	0.031	0.37	1.839	0.038	0.44	MC

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

		Summary Statistics	
Grand Means	1.8501 minutes		1.8014 minutes
Std Dev Btwn Labs	0.0820 minutes		0.0859 minutes
Statistics based on 28 of 30 reporting participants			

Samples Y75-Y76: EPDM compound, batch #1 & Y77-Y78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #684

CZ7LZ4 (X) - Data for all Samples are low.

U9YEXQ (X) - Data for all Samples are low.

Rubber Interlaboratory Testing Program

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1VYK8B		1.688	-0.058	-0.53	1.678	-0.083	-0.72	MD
5VR9Y7		1.885	0.139	1.27	1.885	0.123	1.07	MC
619NWS		1.803	0.057	0.52	1.870	0.108	0.94	MC
74RCSP		1.675	-0.071	-0.65	1.758	-0.003	-0.03	MC
7C75LE		1.812	0.066	0.60	1.827	0.065	0.56	MD
7PMN73		1.770	0.024	0.22	1.737	-0.025	-0.22	MD
8PX8D6		1.677	-0.069	-0.63	1.700	-0.062	-0.53	MC
9MEH8D		1.810	0.064	0.59	1.847	0.085	0.73	MC
A125EB		1.663	-0.083	-0.76	1.680	-0.082	-0.71	MC
C5LQ35	X	0.783	-0.963	-8.81	0.770	-0.992	-8.58	MC
D6C379		1.625	-0.121	-1.11	1.598	-0.163	-1.41	MC
DZERN5		1.562	-0.184	-1.69	1.597	-0.165	-1.43	MC
EVP6MG		1.748	0.002	0.02	1.738	-0.023	-0.20	MC
FFK8U2		1.540	-0.206	-1.88	1.565	-0.197	-1.70	MP
FM8RE5		1.731	-0.015	-0.14	1.747	-0.014	-0.13	MC
H4G84U		1.822	0.076	0.69	1.857	0.095	0.82	TP
J4NPET		1.642	-0.104	-0.95	1.715	-0.047	-0.40	MC
LGY8CK		1.750	0.004	0.04	1.792	0.030	0.26	MC
MCY9ND		1.555	-0.191	-1.75	1.562	-0.200	-1.73	MC
PFVCT5		1.795	0.049	0.45	1.805	0.043	0.37	TP
Q5VMM	*	2.062	0.316	2.89	2.037	0.275	2.38	TP
QC17CC		1.765	0.019	0.17	1.787	0.025	0.22	MC
QMLK5G		1.650	-0.096	-0.88	1.637	-0.125	-1.08	MC
QNQURN		1.822	0.076	0.69	1.815	0.053	0.46	MC
QT3476		1.817	0.071	0.65	1.768	0.007	0.06	MC
RAX7XL		1.750	0.004	0.04	1.765	0.003	0.03	MC
RD7HKV	*	1.902	0.156	1.42	2.007	0.245	2.12	MC
RXM78Z		1.815	0.069	0.63	1.887	0.125	1.08	MC
T6FWJM		1.658	-0.088	-0.80	1.623	-0.138	-1.20	MC
TKV51S		1.757	0.011	0.10	1.817	0.055	0.48	MC
TUZSUX		1.832	0.086	0.78	1.850	0.088	0.76	XX
WDXMC		1.750	0.004	0.04	1.693	-0.068	-0.59	XX
XEVNZG	X	0.925	-0.821	-7.51	0.913	-0.848	-7.34	MC
XJE1AA		1.855	0.109	1.00	1.842	0.080	0.69	MC
YXNLN7		1.772	0.026	0.23	1.807	0.045	0.39	MC

**Rubber Interlaboratory Testing Program
Analysis 685**

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
Z3G8B8		1.607	-0.139	-1.27	1.608	-0.153	-1.33	MC

		Summary Statistics	
Grand Means	1.7460 minutes		1.7617 minutes
Std Dev Btwn Labs	0.1093 minutes		0.1156 minutes
Statistics based on 34 of 36 reporting participants			

Samples Y75-Y76: EPDM compound, batch #1 & Y77-Y78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #685

C5LQ35 (X) - Data for all Samples are low.

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

Instrument Code Listing

685 MDR Vulcanization-Scorch Time, Ts1 (minutes)

Instruments:

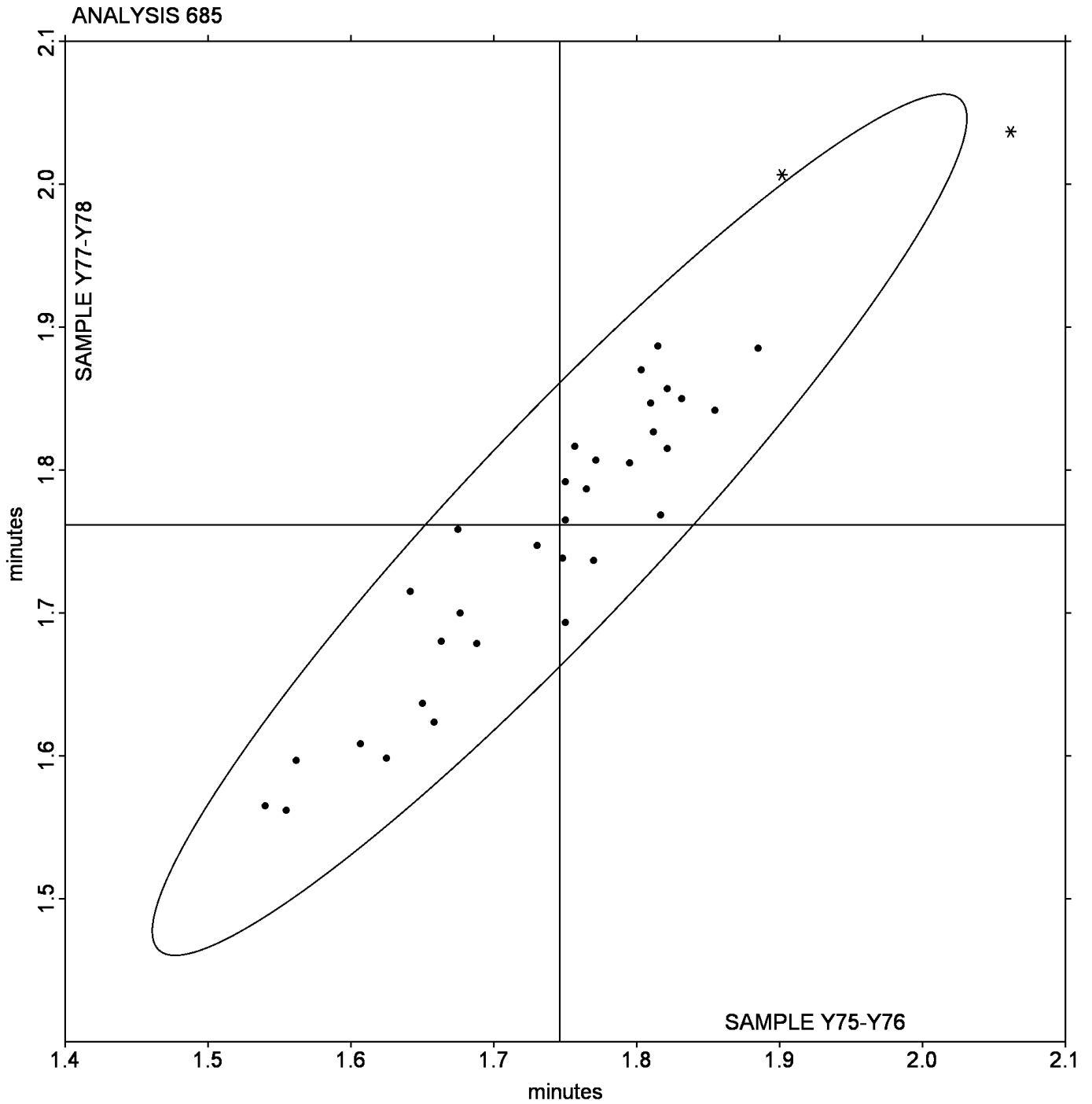
- | | |
|--|---|
| (MC) Alpha Technologies [Monsanto] MDR 2000 or 2000E | (MD) Alpha Tech. Rubber Process Analyzer (RPA 2000) |
| (MP) Alpha Technologies [Monsanto] MDR 2000P | (TP) Tech Pro MDR model MDPT |
| (XX) Instrument model not specified by lab | |

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

Grand Mean Sample Y75-Y76 = 1.7460 minutes

Grand Mean Sample Y77-Y78 = 1.7617 minutes



Rubber Interlaboratory Testing Program

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1KB9FQ		5.403	0.239	0.70	5.338	0.151	0.48	XX
3AQVVA		4.577	-0.588	-1.72	4.532	-0.656	-2.08	MC
3QUAVU		5.210	0.045	0.13	5.158	-0.029	-0.09	MC
3QYE5G		4.782	-0.383	-1.12	5.055	-0.132	-0.42	MC
4ECUJE		4.660	-0.505	-1.47	4.860	-0.327	-1.04	MP
5WAGE6		5.215	0.050	0.15	5.210	0.023	0.07	MC
6TA2U6		5.457	0.292	0.85	5.228	0.041	0.13	MD
7GK5H6		4.985	-0.180	-0.52	5.052	-0.136	-0.43	MC
AKZEN8		4.773	-0.391	-1.14	4.980	-0.207	-0.66	MC
CZ4DXP		5.137	-0.028	-0.08	5.073	-0.114	-0.36	MC
D9Z5F9		5.167	0.002	0.01	5.102	-0.086	-0.27	MC
EUL9PJ		5.502	0.337	0.98	5.642	0.454	1.44	MD
F7XRH1		4.645	-0.520	-1.52	4.605	-0.582	-1.85	MC
F82MKQ		5.514	0.349	1.02	5.422	0.235	0.75	MC
G3E81X	X	2.078	-3.086	-9.00	2.105	-3.082	-9.79	MC
GH6U2A		5.200	0.035	0.10	5.367	0.179	0.57	MC
H1GX8U		5.565	0.400	1.17	5.602	0.414	1.31	TP
HRZTDQ		4.943	-0.221	-0.65	5.055	-0.132	-0.42	MC
JEDK3U		5.347	0.182	0.53	5.338	0.151	0.48	MC
JQ7LYQ		5.112	-0.053	-0.16	5.212	0.024	0.08	MC
JUW7PY	X	1.743	-3.421	-9.98	1.655	-3.532	-11.21	MC
KMWGT		4.712	-0.453	-1.32	4.637	-0.551	-1.75	MC
KN6RGZ		5.267	0.102	0.30	5.345	0.157	0.50	MC
KZGQ5T		5.228	0.064	0.19	5.235	0.048	0.15	MC
L6AWR1		4.422	-0.743	-2.17	4.550	-0.637	-2.02	MC
L9D8MM		5.378	0.214	0.62	5.292	0.104	0.33	MC
LNCMV		5.467	0.302	0.88	5.461	0.274	0.87	MC
MUG44G		5.193	0.029	0.08	5.242	0.054	0.17	MC
RREDPJ		5.367	0.202	0.59	5.388	0.201	0.64	MC
TAY3AV	X	5.505	0.340	0.99	5.902	0.714	2.27	MC
UBHL5Z		4.898	-0.266	-0.78	4.993	-0.194	-0.62	TP
UKE95B		5.197	0.032	0.09	5.222	0.034	0.11	MC
V37586	*	6.052	0.887	2.59	6.010	0.823	2.61	TP
VURHV4		5.397	0.232	0.68	5.427	0.239	0.76	MC
X8814B		5.265	0.100	0.29	5.197	0.009	0.03	MD

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YWPBLP		5.405	0.240	0.70	5.358	0.171	0.54	TP

		Summary Statistics	
Grand Means	5.1648 minutes		5.1875 minutes
Std Dev Btwn Labs	0.3429 minutes		0.3150 minutes
Statistics based on 33 of 36 reporting participants			

Samples Y75-Y76: EPDM compound, batch #1 & Y77-Y78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #686

G3E81X (X) - Data for all Samples are low.

JUW7PY (X) - Data for all Samples are low.

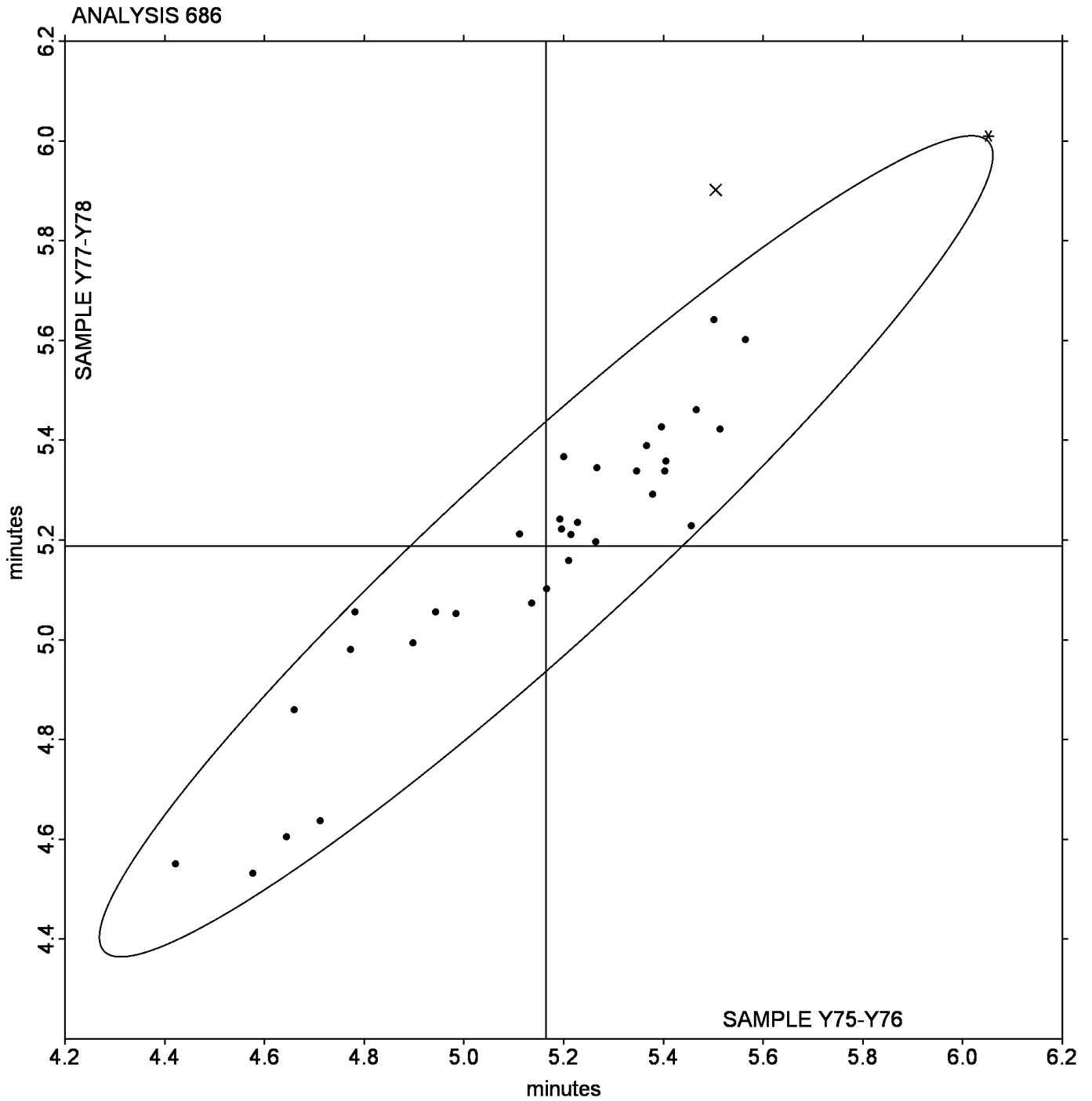
TAY3AV (X) - Inconsistency in testing between Sample sets.

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample Y75-Y76 = 5.1648 minutes

Grand Mean Sample Y77-Y78 = 5.1875 minutes



Rubber Interlaboratory Testing Program

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1MM3J5		8.468	0.022	0.08	8.198	-0.127	-0.42	MC
2RFVB5		8.967	0.520	1.98	8.723	0.398	1.32	MC
32GZFK		8.025	-0.422	-1.61	7.965	-0.360	-1.19	MC
3AF2UQ		8.423	-0.023	-0.09	8.102	-0.223	-0.74	MC
55HJTW		8.382	-0.065	-0.25	8.252	-0.073	-0.24	MC
5ABMTF		8.473	0.027	0.10	8.492	0.167	0.55	MC
6QARX6		8.527	0.080	0.31	8.312	-0.013	-0.04	MD
6VD2NB	X	2.737	-5.710	-21.77	2.490	-5.835	-19.31	MC
734W8N		8.325	-0.122	-0.46	8.197	-0.128	-0.42	TP
7KGKZ2		8.685	0.238	0.91	8.563	0.238	0.79	MC
8RS9WP		8.395	-0.052	-0.20	8.152	-0.173	-0.57	MC
977QUU		8.486	0.040	0.15	8.431	0.106	0.35	MC
9YZWZ2		8.463	0.017	0.06	8.375	0.050	0.17	MC
AZ15P5		8.358	-0.088	-0.34	8.062	-0.263	-0.87	MC
B7YYTJ		8.350	-0.096	-0.37	8.431	0.106	0.35	MC
BA6LR3		8.517	0.070	0.27	8.310	-0.015	-0.05	MC
CM9KPZ		8.508	0.062	0.24	8.588	0.263	0.87	TP
DNMRV		8.543	0.097	0.37	8.370	0.045	0.15	MC
E3BUSW		8.347	-0.100	-0.38	8.322	-0.003	-0.01	MC
GH1RYJ		8.557	0.110	0.42	8.408	0.083	0.28	MC
L8144A		8.817	0.370	1.41	8.655	0.330	1.09	MC
ME867W		7.955	-0.492	-1.87	7.982	-0.343	-1.14	MC
MKWRA		8.510	0.063	0.24	8.467	0.142	0.47	MD
N7VAFM		8.550	0.103	0.39	8.575	0.250	0.83	MC
N8GBN4		8.465	0.018	0.07	8.333	0.008	0.03	MC
NLS5E4		8.873	0.427	1.63	8.702	0.377	1.25	XX
PD9MQF		8.567	0.120	0.46	8.357	0.032	0.11	MC
RZE87W		8.473	0.027	0.10	8.448	0.123	0.41	TP
TY Y6GM	*	7.998	-0.448	-1.71	7.597	-0.728	-2.41	MP
UJGKPF		8.265	-0.182	-0.69	8.285	-0.040	-0.13	MC
VSZ1TN		8.445	-0.002	-0.01	8.250	-0.075	-0.25	MC
VZ7TB6	*	9.110	0.663	2.53	9.195	0.870	2.88	TP
W6MYL	X	3.490	-4.957	-18.90	3.355	-4.970	-16.45	MC
W8JPAP		7.997	-0.450	-1.72	7.760	-0.565	-1.87	MC
WL4SAP		8.522	0.076	0.29	8.470	0.145	0.48	MC

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
X4J8FE		7.935	-0.512	-1.95	7.745	-0.580	-1.92	MC
ZUM7T9		8.348	-0.098	-0.37	8.300	-0.025	-0.08	MD

Summary Statistics

Grand Means

8.4466 minutes

8.3249 minutes

Std Dev Btwn Labs

0.2623 minutes

0.3021 minutes

Statistics based on 35 of 37 reporting participants

Samples Y75-Y76: EPDM compound, batch #1 & Y77-Y78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #687

6VD2NB (X) - Data for all Samples are low.

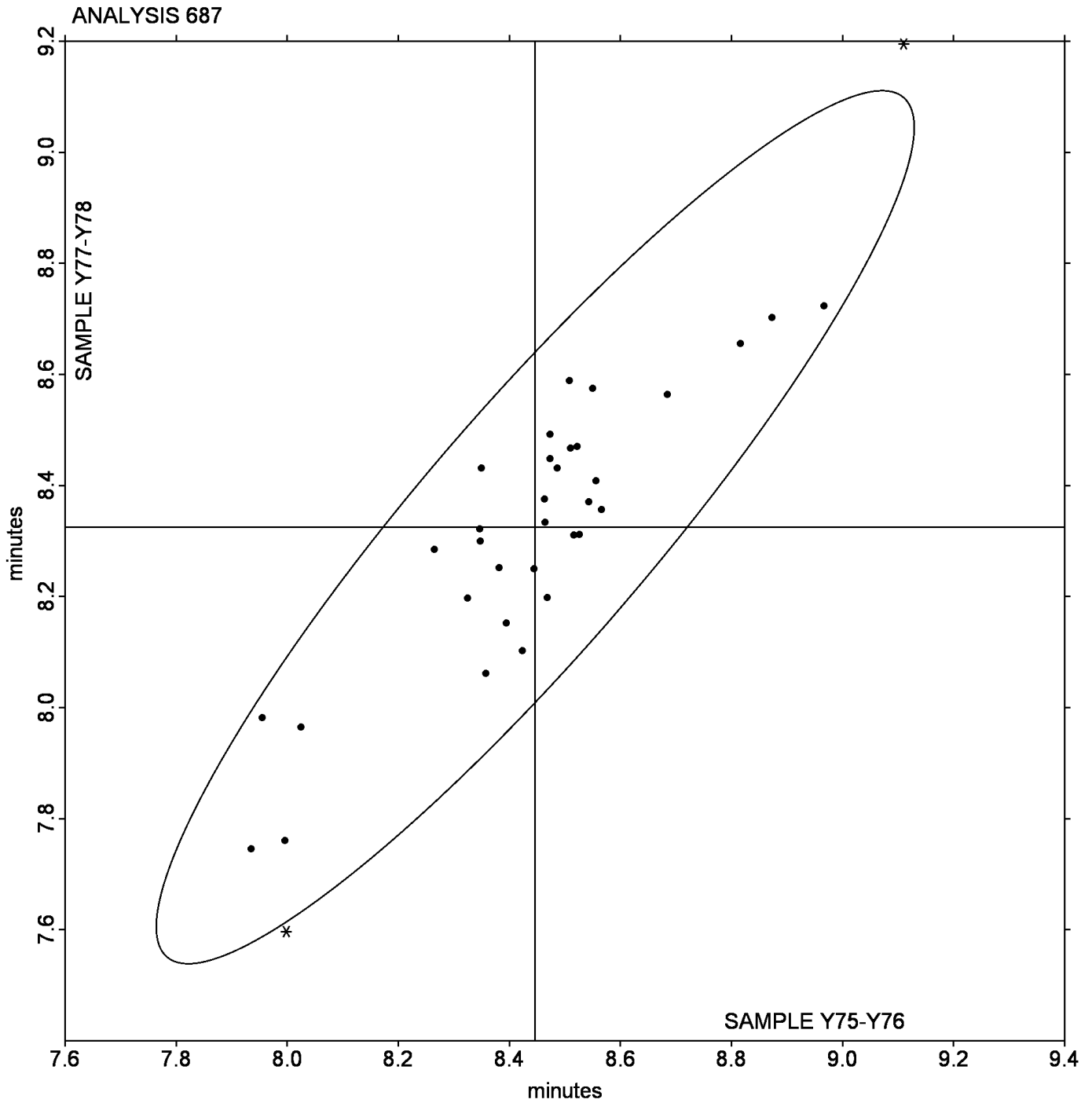
W6MYLH (X) - Data for all Samples are low.

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Y75-Y76 = 8.4466 minutes

Grand Mean Sample Y77-Y78 = 8.3249 minutes



Rubber Interlaboratory Testing Program

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
11H15T	*	2.758	0.412	0.82	2.605	0.525	1.11	TP
1B3DEB		2.233	-0.114	-0.23	1.959	-0.121	-0.26	MD
1NGFUG		1.795	-0.552	-1.10	1.552	-0.528	-1.11	MC
2RQZDH		3.055	0.708	1.41	2.742	0.662	1.39	MC
4X8F56		1.949	-0.398	-0.79	1.736	-0.344	-0.72	MD
5WU8JP		2.008	-0.338	-0.67	1.763	-0.317	-0.67	MC
7CXK5Y		2.940	0.593	1.18	2.607	0.527	1.11	MC
82T7RW		1.917	-0.430	-0.85	1.627	-0.453	-0.95	MC
8E9GQT		1.963	-0.383	-0.76	1.732	-0.348	-0.73	TP
8GRCYY		1.855	-0.492	-0.98	1.627	-0.453	-0.95	MC
8GW2MA		2.093	-0.253	-0.50	1.879	-0.201	-0.42	MC
9DNW51		1.922	-0.425	-0.84	1.658	-0.422	-0.89	MC
9EYV5B	*	3.508	1.162	2.31	3.068	0.988	2.08	MC
9LDL9Q		1.943	-0.404	-0.80	1.701	-0.380	-0.80	MD
BEEVVQ		2.163	-0.183	-0.36	1.845	-0.235	-0.49	MC
BKSRJZ		3.108	0.762	1.51	2.762	0.682	1.43	MC
E2DZ28		3.153	0.807	1.60	2.763	0.683	1.44	MC
F9NBB6		2.008	-0.338	-0.67	1.758	-0.322	-0.68	MC
GT3THV		3.218	0.872	1.73	2.927	0.847	1.78	MC
HCVJL9		1.795	-0.552	-1.10	1.545	-0.535	-1.13	XX
HUFKNJ		2.424	0.077	0.15	2.205	0.125	0.26	MC
KYJE9R		1.948	-0.398	-0.79	1.708	-0.372	-0.78	MC
M7HG37		2.202	-0.145	-0.29	2.027	-0.053	-0.11	MC
MYRZRK		2.458	0.112	0.22	2.168	0.088	0.19	MC
N5ECAQ		1.890	-0.457	-0.91	1.632	-0.448	-0.94	MC
PAKZVL		2.217	-0.130	-0.26	1.941	-0.139	-0.29	MC
Q8152H		2.186	-0.160	-0.32	1.921	-0.159	-0.34	MC
S222LB		2.072	-0.275	-0.55	1.818	-0.262	-0.55	MC
T4MUBS		2.398	0.052	0.10	2.162	0.082	0.17	MC
T5VHDW		2.563	0.217	0.43	2.287	0.207	0.43	MC
TFTE5C		2.117	-0.230	-0.46	1.843	-0.237	-0.50	MC
TKTEWU		3.240	0.893	1.77	2.973	0.893	1.88	TP
TPUURK		1.975	-0.372	-0.74	1.683	-0.397	-0.84	MC
UKY4XZ		3.235	0.888	1.76	2.930	0.850	1.79	MC
VJCD6L		2.615	0.269	0.53	2.397	0.317	0.67	MP

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
X39VNY		1.883	-0.463	-0.92	1.623	-0.457	-0.96	MC
XG28Q2		2.015	-0.332	-0.66	1.788	-0.292	-0.61	TP

		Summary Statistics	
Grand Means		2.3466 lbf.in	2.0800 lbf.in
Stnd Dev Btwn Labs		0.5038 lbf.in	0.4750 lbf.in
Statistics based on 37 of 37 reporting participants			

		Summary Statistics in SI Units	
Grand Means		2.6513 dN.m	2.3501 dN.m
Stnd Dev Btwn Labs		0.5692 dN.m	0.5367 dN.m
Statistics based on 37 of 37 reporting participants			

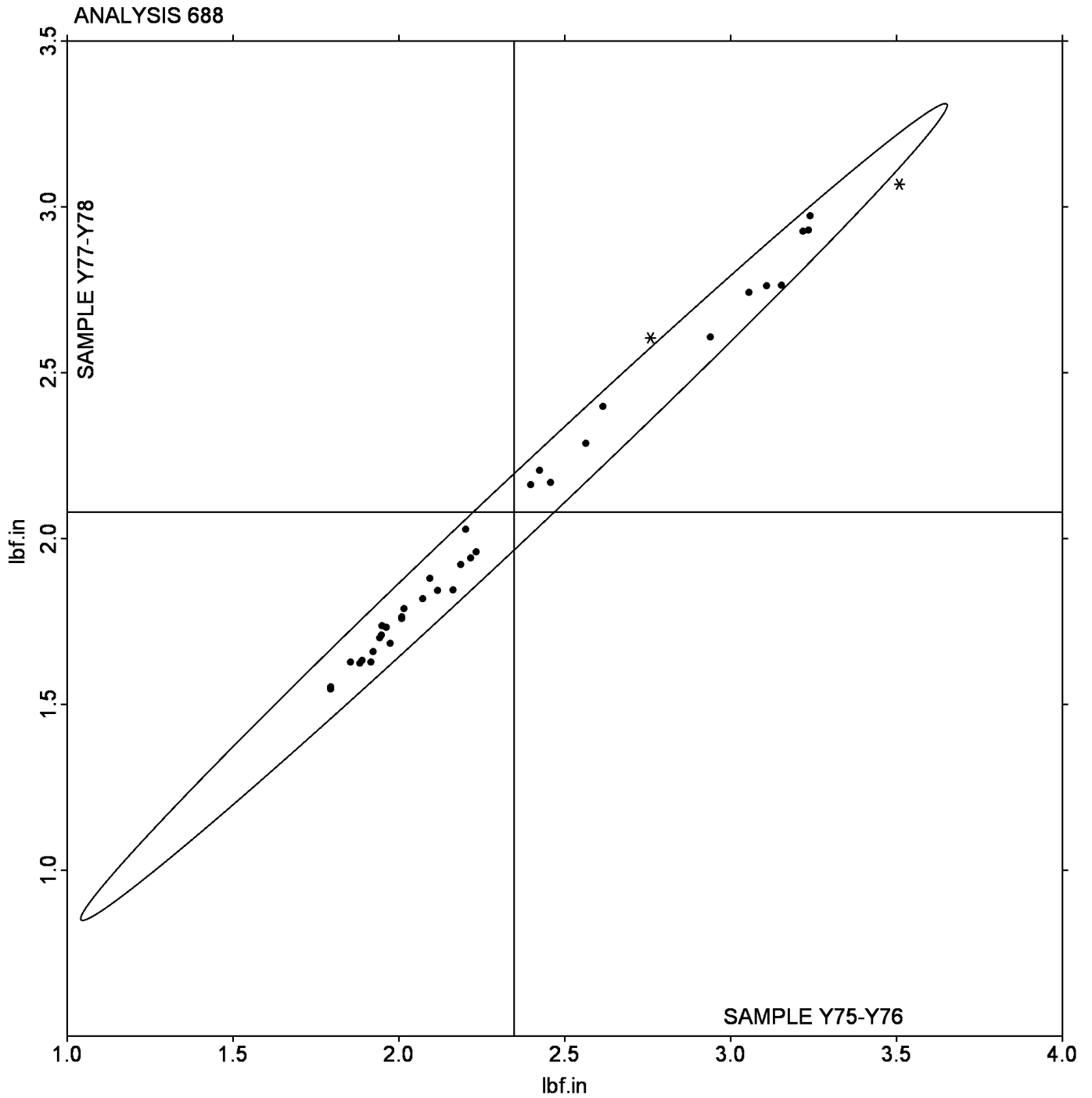
Samples Y75-Y76: EPDM compound, batch #1 & Y77-Y78: EPDM compound, batch #2

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Y75-Y76 = 2.3466 lbf.in

Grand Mean Sample Y77-Y78 = 2.0800 lbf.in



Rubber Interlaboratory Testing Program

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2NQNHH		12.94	0.17	0.43	11.85	-0.08	-0.16	MC
3ZKVY7	*	12.22	-0.55	-1.36	11.93	0.01	0.02	MD
4B3217		12.85	0.09	0.22	11.69	-0.24	-0.49	MC
4XX173		12.76	-0.01	-0.02	11.96	0.03	0.07	MC
5A27P1		13.06	0.29	0.73	12.15	0.22	0.45	MC
6JCNAS		12.88	0.12	0.28	12.16	0.24	0.49	MC
71H55X		12.92	0.15	0.37	12.10	0.17	0.35	MC
8FAAYC	X	15.60	2.83	6.98	14.63	2.70	5.58	MC
9ZGGUK	*	13.06	0.29	0.71	12.85	0.92	1.91	MC
BZN6NZ		12.77	0.00	0.00	11.93	0.01	0.02	MC
CDTEPG		12.96	0.20	0.49	12.34	0.41	0.85	MC
CERPTK		13.09	0.33	0.81	12.03	0.10	0.21	MC
CT6ED9		13.03	0.26	0.65	11.99	0.06	0.13	MC
ENZB1W		12.40	-0.37	-0.91	11.47	-0.46	-0.94	MC
EU3C8C		12.92	0.15	0.37	12.26	0.34	0.69	MD
FLCZY5		13.49	0.72	1.78	12.68	0.75	1.56	TP
FSTRVW		12.98	0.21	0.52	12.19	0.27	0.55	MC
JRTKK8		12.58	-0.19	-0.47	11.86	-0.07	-0.14	TP
K8F8KV	*	12.32	-0.45	-1.10	10.78	-1.14	-2.36	MC
LEUUDE		11.76	-1.01	-2.48	11.06	-0.86	-1.78	TP
LNZE4G		12.74	-0.03	-0.07	11.96	0.04	0.07	MC
MP5PBY		12.14	-0.63	-1.56	11.06	-0.87	-1.79	MC
NGX9YQ		12.38	-0.39	-0.97	11.09	-0.83	-1.72	MC
PXYWK2		12.51	-0.26	-0.63	11.60	-0.32	-0.67	MC
R3T2R9		12.36	-0.41	-1.01	11.64	-0.29	-0.59	TP
R63RQD		13.15	0.38	0.95	12.21	0.28	0.58	MC
SA5QD4		13.23	0.46	1.13	12.13	0.21	0.43	MC
UCEE4B		13.22	0.45	1.12	12.31	0.39	0.80	MC
V2TKEW		12.73	-0.04	-0.09	12.04	0.11	0.23	XX
V5XRZE		12.45	-0.32	-0.78	11.69	-0.24	-0.50	MD
VH88WB		13.12	0.35	0.86	12.38	0.46	0.95	MC
X59MGL		13.00	0.24	0.58	12.27	0.34	0.70	MC
X7U4AJ		12.75	-0.01	-0.03	12.02	0.10	0.20	MC
XQKC8E		13.35	0.58	1.43	12.59	0.66	1.36	MC
YQG4M7		13.00	0.24	0.58	12.36	0.44	0.90	MC

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Y75-Y76			Sample Y77-Y78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ZDTREB		11.77	-1.00	-2.47	10.93	-1.00	-2.06	MC
ZNZMGG		12.75	-0.02	-0.04	11.77	-0.15	-0.32	MP

Summary Statistics

Grand Means

12.767 lbf.in

11.926 lbf.in

Std Dev Btwn Labs

0.405 lbf.in

0.484 lbf.in

Statistics based on 36 of 37 reporting participants

Summary Statistics in SI Units

Grand Means

14.425 dN.m

13.474 dN.m

Std Dev Btwn Labs

0.458 dN.m

0.547 dN.m

Statistics based on 36 of 37 reporting participants

Samples Y75-Y76: EPDM compound, batch #1 & Y77-Y78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #689

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

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Y75-Y76 = 12.767 lbf.in

Grand Mean Sample Y77-Y78 = 11.926 lbf.in

