

Rubber Interlaboratory Testing Program

Summary Report #154- 4th 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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WebCode	Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Rubber Report published on the CTS Web site. The WebCode for each analysis can be found in the Performance Analysis Report mailed to each participant.
Lab Mean	Tensile & Hardness: the average of the median values obtained for each sample. All other tests: the average of the test results obtained by the participant.
Grand Mean	The average of the LAB MEANS for all included participants. Laboratories flagged with an X or an M (see DATA FLAG column) are excluded from the GRAND MEAN.
Difference from Grand Mean	The difference of the LAB MEAN from the GRAND MEAN.
Between-Lab Standard Deviation	An indication of the precision of measurement between the laboratories. The greater the spread of the LAB MEANS about the GRAND MEAN, the larger the BETWEEN-LAB STANDARD DEVIATION (and vice versa).
Comparative Performance Value	An indication of how well a laboratory's results agree with the other participants. The CPV is a ratio indicating the number of standard deviations from the GRAND MEAN. The closer a laboratory's COMPARATIVE PERFORMANCE VALUE is to zero, the more consistent its results are with the other participants' data (and vice versa). The critical value for each CPV will vary depending on the number of labs participating in a test.
Inst Code	If instruments are tracked in a test, a code indicating the manufacturer of the instrument used to perform the test (see separate INSTRUMENT CODE LIST for each test section).
Data Flag	DATA FLAGS are assigned based on the simultaneous analysis of both samples tested. Refer to the following chart for an explanation of each symbol:

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

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

Common Problems Highlighted in Footnotes

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

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
14DZZS		3,134.0	-129.5	-0.78	3,031.5	-226.9	-1.40	ZZ
24E1UR		3,270.6	7.1	0.04	3,195.9	-62.5	-0.39	ZZ
2BKX84		3,399.0	135.5	0.82	3,392.0	133.6	0.83	ZZ
2KWNW	*	2,866.0	-397.5	-2.40	2,805.5	-452.9	-2.80	ZZ
2UNK1F		3,409.0	145.5	0.88	3,353.5	95.1	0.59	ZZ
353A4D		3,419.5	156.0	0.94	3,429.0	170.6	1.06	ZZ
3M3VQL		3,393.5	130.0	0.78	3,372.5	114.1	0.71	ZZ
46XQDU	*	3,315.0	51.5	0.31	3,486.5	228.1	1.41	ZZ
5LKYM7		3,100.5	-163.0	-0.98	3,160.0	-98.4	-0.61	ZZ
5Q3M9V		3,031.0	-232.5	-1.40	3,040.0	-218.4	-1.35	ZZ
6A35X3		3,232.9	-30.6	-0.18	3,161.9	-96.6	-0.60	ZZ
6HLHUF		3,471.5	208.0	1.25	3,503.0	244.6	1.51	ZZ
6LABZ3		3,574.5	311.0	1.88	3,612.0	353.6	2.19	ZZ
6QRLJL		3,219.5	-44.0	-0.27	3,174.5	-83.9	-0.52	ZZ
72WRNE		3,246.0	-17.5	-0.11	3,204.7	-53.7	-0.33	ZZ
747YES		3,236.5	-27.0	-0.16	3,137.5	-120.9	-0.75	ZZ
75JPCA		3,312.0	48.5	0.29	3,345.0	86.6	0.54	ZZ
882KTV		3,393.5	130.0	0.78	3,341.5	83.1	0.51	ZZ
8KDKBN		3,429.5	166.0	1.00	3,399.5	141.1	0.87	ZZ
8MAUP3	X	2,784.5	-479.0	-2.89	2,629.5	-628.9	-3.89	ZZ
8QMLU6		3,263.4	-0.1	0.00	3,198.1	-60.3	-0.37	ZZ
8V1WTE		3,407.0	143.5	0.87	3,480.0	221.6	1.37	ZZ
8VH9TQ		3,030.6	-232.9	-1.40	3,093.7	-164.7	-1.02	ZZ
97M4AT		3,444.5	181.0	1.09	3,463.5	205.1	1.27	ZZ
9ES5R9		3,326.5	63.0	0.38	3,158.0	-100.4	-0.62	ZZ
A77ZF2		3,000.5	-263.0	-1.59	3,095.0	-163.4	-1.01	ZZ
AFQRA5		3,298.0	34.5	0.21	3,391.0	132.6	0.82	ZZ
AJJE8S		3,187.2	-76.3	-0.46	3,307.8	49.4	0.31	ZZ
AR7X62		3,284.4	20.8	0.13	3,232.8	-25.7	-0.16	ZZ
ATMCCV		3,551.5	288.0	1.74	3,432.5	174.1	1.08	ZZ
AZ9777		3,199.5	-64.0	-0.39	3,199.0	-59.4	-0.37	ZZ
BVE8P1		3,596.8	333.2	2.01	3,583.2	324.8	2.01	ZZ
BZ7K3M		3,115.5	-148.0	-0.89	3,155.5	-102.9	-0.64	ZZ
CLY136		3,507.0	243.5	1.47	3,503.5	245.1	1.52	ZZ
CPTEBF		3,463.0	199.5	1.20	3,377.0	118.6	0.73	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CTADR3		3,390.0	126.5	0.76	3,480.0	221.6	1.37	ZZ
D5G5Q9		3,007.0	-256.5	-1.55	2,978.5	-279.9	-1.73	ZZ
DEAS48		3,338.0	74.5	0.45	3,366.5	108.1	0.67	ZZ
DERHZR		3,462.8	199.3	1.20	3,428.7	170.3	1.05	ZZ
DPSD6G		3,138.5	-125.0	-0.75	3,244.5	-13.9	-0.09	ZZ
DVWSX5		3,228.6	-35.0	-0.21	3,231.5	-26.9	-0.17	ZZ
DYEJXT		3,299.0	35.5	0.21	3,306.0	47.6	0.29	ZZ
EVYQ2Z		3,306.9	43.4	0.26	3,328.3	69.8	0.43	ZZ
F6PX48		3,113.0	-150.5	-0.91	3,160.5	-97.9	-0.61	ZZ
FNVN86		3,207.0	-56.5	-0.34	3,195.5	-62.9	-0.39	ZZ
FP2L8T		3,016.1	-247.4	-1.49	3,123.4	-135.0	-0.84	ZZ
GKGF8S		2,940.7	-322.9	-1.95	2,971.1	-287.3	-1.78	ZZ
HD4C49		3,048.5	-215.0	-1.30	2,970.0	-288.4	-1.78	ZZ
HGZYLL		3,171.4	-92.2	-0.56	3,331.6	73.2	0.45	ZZ
HVMQK2		3,009.5	-254.0	-1.53	3,008.0	-250.4	-1.55	ZZ
J144JK		3,583.5	320.0	1.93	3,610.0	351.6	2.18	ZZ
K1FTXB		3,459.2	195.7	1.18	3,373.6	115.2	0.71	ZZ
K1R8YK		3,067.7	-195.8	-1.18	3,102.0	-156.4	-0.97	ZZ
KAD3EN		3,109.5	-154.0	-0.93	3,113.5	-144.9	-0.90	ZZ
KE4VTA		3,341.0	77.5	0.47	3,288.5	30.1	0.19	ZZ
KPN7RF		2,890.0	-373.5	-2.25	2,995.0	-263.4	-1.63	ZZ
KRUN6Y		3,249.6	-13.9	-0.08	3,185.1	-73.4	-0.45	ZZ
KWJ1VF		3,150.0	-113.5	-0.68	3,109.5	-148.9	-0.92	ZZ
L5TCVP		3,486.5	223.0	1.34	3,323.0	64.6	0.40	ZZ
L6N3XX	*	3,339.0	75.5	0.46	3,512.0	253.6	1.57	ZZ
LF2LWP		3,306.9	43.4	0.26	3,270.6	12.2	0.08	ZZ
LQA6HJ		3,434.8	171.3	1.03	3,498.7	240.2	1.49	ZZ
LR1CNN		2,995.1	-268.5	-1.62	2,929.8	-328.6	-2.03	ZZ
LYWG8C	X	3,013.0	-250.5	-1.51	3,296.0	37.6	0.23	ZZ
M13KS9		3,139.5	-124.0	-0.75	3,057.5	-200.9	-1.24	ZZ
M6MITY		3,406.0	142.5	0.86	3,445.5	187.1	1.16	ZZ
MVL2XY		3,009.0	-254.5	-1.54	2,979.5	-278.9	-1.73	ZZ
N16EBR		3,280.5	17.0	0.10	3,292.0	33.6	0.21	ZZ
NH6ZME	X	2,416.0	-847.5	-5.11	2,471.5	-786.9	-4.87	ZZ
NKA579		3,318.5	55.0	0.33	3,196.5	-61.9	-0.38	ZZ

Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
NQ2ZZM	X	2,505.0	-758.5	-4.57	3,060.0	-198.4	-1.23	ZZ
NS7CXN		3,148.0	-115.5	-0.70	3,179.5	-78.9	-0.49	ZZ
PPJWR7		2,978.2	-285.4	-1.72	3,054.5	-203.9	-1.26	ZZ
PXVHPV		3,132.8	-130.7	-0.79	3,270.6	12.2	0.08	ZZ
Q6TRNY		3,287.0	23.5	0.14	3,266.0	7.6	0.05	ZZ
Q8GWP4		3,130.0	-133.5	-0.81	3,275.0	16.6	0.10	ZZ
QEFHHZ	*	3,078.0	-185.5	-1.12	3,259.5	1.1	0.01	ZZ
QHHTAP		3,307.0	43.5	0.26	3,348.5	90.1	0.56	ZZ
QP486C		3,086.5	-177.0	-1.07	3,056.5	-201.9	-1.25	ZZ
QQ9Y71		3,414.5	151.0	0.91	3,493.5	235.1	1.46	ZZ
QRV7XH		3,173.0	-90.5	-0.55	3,127.5	-130.9	-0.81	ZZ
QYPE4G		3,269.5	6.0	0.04	3,239.5	-18.9	-0.12	ZZ
RW153F		3,052.9	-210.6	-1.27	3,072.8	-185.6	-1.15	ZZ
RX64B2		3,215.0	-48.5	-0.29	3,214.5	-43.9	-0.27	ZZ
S4NSRP		3,264.0	0.5	0.00	3,269.0	10.6	0.07	ZZ
SNSPUS		3,125.6	-137.9	-0.83	3,180.7	-77.7	-0.48	ZZ
SNSZ1B		3,033.5	-230.0	-1.39	3,086.4	-172.0	-1.06	ZZ
T579YA		3,462.5	199.0	1.20	3,419.0	160.6	0.99	ZZ
THKWK2		3,244.5	-19.0	-0.11	3,190.5	-67.9	-0.42	ZZ
TTWSG5	X	4,292.2	1,028.7	6.20	3,825.3	566.9	3.51	ZZ
U258FB		3,374.3	110.8	0.67	3,424.4	166.0	1.03	ZZ
U2Q67W		3,261.2	-2.3	-0.01	3,304.0	45.6	0.28	ZZ
U7YP7A		3,410.0	146.5	0.88	3,449.5	191.1	1.18	ZZ
U8TWAG		3,393.2	129.7	0.78	3,330.1	71.7	0.44	ZZ
UGC8A8		3,275.5	12.0	0.07	3,272.5	14.1	0.09	ZZ
UGUGZ3		3,140.3	-123.2	-0.74	3,267.7	9.2	0.06	ZZ
ULFE6C		3,198.5	-65.0	-0.39	3,191.5	-66.9	-0.41	ZZ
UQXK12		3,195.0	-68.5	-0.41	3,082.0	-176.4	-1.09	ZZ
UTCPKB		3,440.0	176.5	1.06	3,390.0	131.6	0.81	ZZ
UWX6RF		3,331.5	68.0	0.41	3,202.0	-56.4	-0.35	ZZ
UX3UM7		2,940.5	-323.0	-1.95	2,940.5	-317.9	-1.97	ZZ
UXAEHA		3,346.5	83.0	0.50	3,216.6	-41.9	-0.26	ZZ
VEG5XS		3,298.9	35.4	0.21	3,267.0	8.6	0.05	ZZ
VYR5R1		3,472.5	209.0	1.26	3,413.5	155.1	0.96	ZZ
W8NYEC		3,432.5	169.0	1.02	3,348.0	89.6	0.55	ZZ

Analysis 605
Tensile Strength (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
WKJGBB		3,280.5	17.0	0.10	3,158.0	-100.4	-0.62	ZZ
WKU3A6		3,308.0	44.5	0.27	3,190.0	-68.4	-0.42	ZZ
WLB1X4		3,415.7	152.1	0.92	3,393.9	135.5	0.84	ZZ
X462ET		3,617.3	353.8	2.13	3,473.0	214.6	1.33	ZZ
XBTCW9		3,277.9	14.4	0.09	3,292.4	34.0	0.21	ZZ
XVYXE2		3,345.0	81.5	0.49	3,326.5	68.1	0.42	ZZ
XW5WA		3,211.9	-51.6	-0.31	3,335.2	76.8	0.48	ZZ
Y447DE		3,206.0	-57.5	-0.35	3,165.5	-92.9	-0.58	ZZ
YZQJRW		3,118.5	-145.0	-0.87	3,105.5	-152.9	-0.95	ZZ
Z6K5SV		3,491.0	227.5	1.37	3,427.0	168.6	1.04	ZZ
ZF8VF8		3,446.1	182.6	1.10	3,435.2	176.8	1.09	ZZ
ZJ3FZD		3,304.0	40.5	0.24	3,185.8	-72.6	-0.45	ZZ
ZNU3M1		3,446.9	183.3	1.11	3,389.9	131.4	0.81	ZZ
ZQH9QQ		3,287.3	23.7	0.14	3,255.0	-3.4	-0.02	ZZ

Summary Statistics			
Grand Means	3,263.52 psi	3,258.41 psi	
Std Dev Btwn Labs	165.80 psi	161.57 psi	
Statistics based on 114 of 119 reporting participants			

Summary Statistics in SI Units			
Grand Means	22.501 MPa	22.47 MPa	
Std Dev Btwn Labs	1.143 MPa	1.11 MPa	
Statistics based on 114 of 119 reporting participants			

Samples D71-D72: Polyisoprene compound, batch #1 & D73-D74: Polyisoprene compound, batch #2

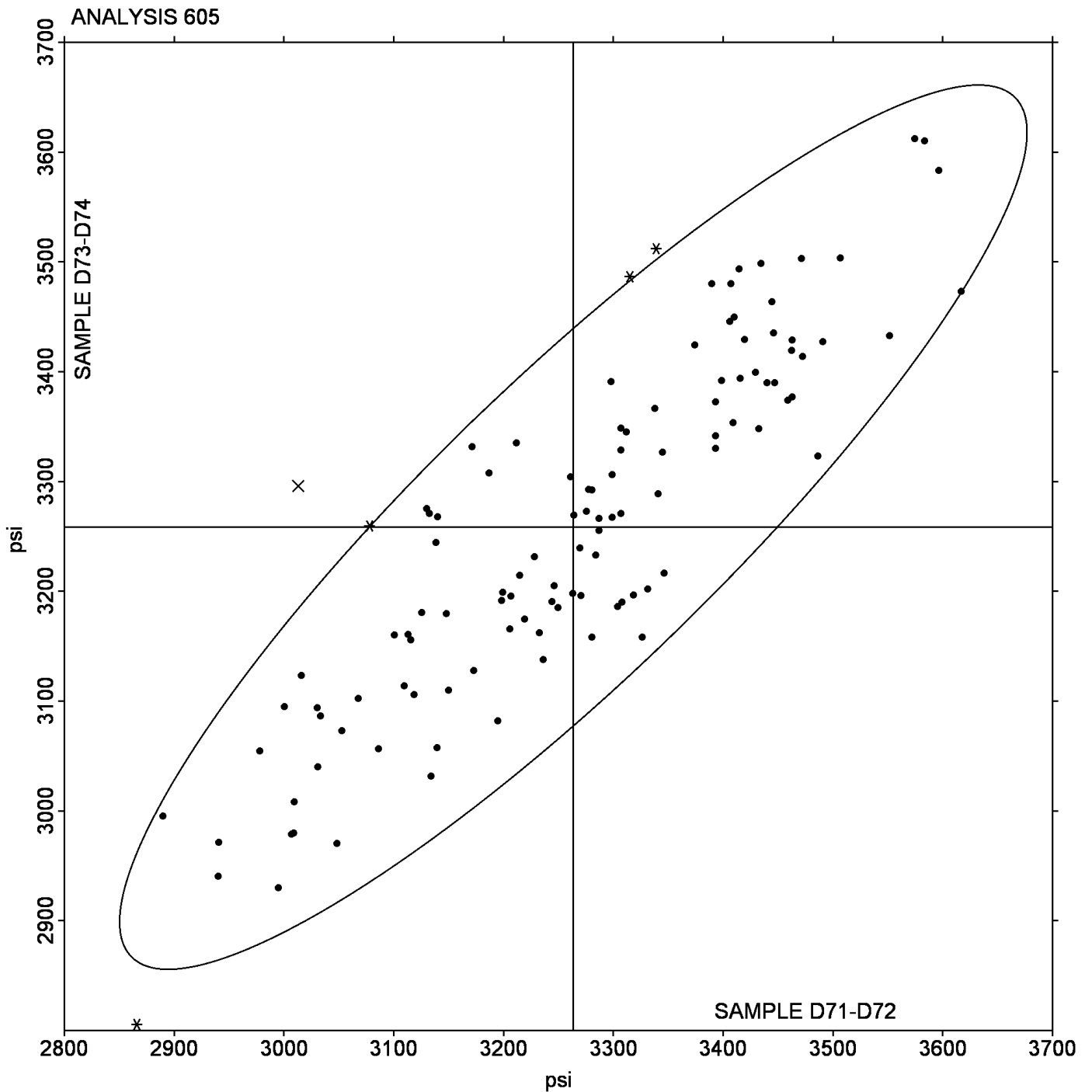
Comments on assigned Data Flags for Test #605

- 8MAUP3 (X) - Data for all Samples are low.
- LYWG8C (X) - Inconsistency in testing between Sample sets.
- NH6ZME (X) - Data for all Samples are low.
- NQ2ZZM (X) - Inconsistency in testing between Sample sets. Data for Sample Set D71-D72 are high.
- TTWSG5 (X) - Data for all Samples are high. Also inconsistent in testing within Sample set D73-D74

Analysis 605
Tensile Strength (psi)

Grand Mean Sample D71-D72 = 3,263.52 psi

Grand Mean Sample D73-D74 = 3,258.41 psi



Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
11A6Z2		557.0	-20.1	-0.76	566.0	-12.1	-0.45	ZZ
1FBMJA		582.5	5.4	0.20	584.0	5.9	0.22	ZZ
1FE4YM		594.5	17.4	0.65	606.5	28.4	1.07	ZZ
1G3NH7	X	442.5	-134.6	-5.05	447.5	-130.6	-4.90	ZZ
1SNE2X		577.0	-0.1	-0.01	583.5	5.4	0.20	ZZ
23F27B		593.0	15.9	0.60	586.5	8.4	0.32	ZZ
2955BG		614.1	37.0	1.39	621.2	43.1	1.62	ZZ
2LTJHH	*	505.0	-72.1	-2.71	520.0	-58.1	-2.18	ZZ
2YK6RY		561.0	-16.1	-0.61	564.0	-14.1	-0.53	ZZ
314Z7D		584.5	7.4	0.28	590.0	11.9	0.45	ZZ
39XXN6		585.0	7.9	0.30	575.0	-3.1	-0.12	ZZ
3DVKW		560.0	-17.1	-0.64	555.0	-23.1	-0.87	ZZ
47ADM8	*	525.5	-51.6	-1.94	551.5	-26.6	-1.00	ZZ
4PZDYS		581.4	4.3	0.16	590.4	12.3	0.46	ZZ
592GHE		592.5	15.4	0.58	595.0	16.9	0.64	ZZ
5DYA73	*	518.0	-59.1	-2.22	536.0	-42.1	-1.58	ZZ
5KWYSN		533.0	-44.1	-1.66	528.0	-50.1	-1.88	ZZ
6NLG4Z		567.5	-9.6	-0.36	557.5	-20.6	-0.77	ZZ
7GYVS7		571.0	-6.1	-0.23	592.5	14.4	0.54	ZZ
7P53QT	X	581.5	4.4	0.16	635.5	57.4	2.16	ZZ
7XUPMR		605.6	28.5	1.07	608.7	30.6	1.15	ZZ
8FKTGS		573.5	-3.6	-0.14	574.5	-3.6	-0.13	ZZ
8SG8M2		570.0	-7.1	-0.27	569.5	-8.6	-0.32	ZZ
8T98LX		583.5	6.4	0.24	592.0	13.9	0.52	ZZ
965RXA	X	53.0	-524.1	-19.66	54.0	-524.1	-19.67	ZZ
97VPEQ		551.5	-25.6	-0.96	545.5	-32.6	-1.22	ZZ
9JQ54R		596.0	18.9	0.71	585.0	6.9	0.26	ZZ
9LQU7D		593.0	15.9	0.60	595.5	17.4	0.65	ZZ
9Z911L		583.5	6.4	0.24	581.0	2.9	0.11	ZZ
AEQD9Y		529.0	-48.1	-1.81	521.5	-56.6	-2.12	ZZ
AQ3V6R		621.7	44.5	1.67	621.6	43.5	1.63	ZZ
AV7FRU		594.6	17.4	0.65	589.5	11.4	0.43	ZZ
B9N711		562.0	-15.1	-0.57	565.5	-12.6	-0.47	ZZ
BAHNZ		598.5	21.4	0.80	600.0	21.9	0.82	ZZ
BANBPA		568.5	-8.7	-0.33	578.5	0.4	0.02	ZZ

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BBE7BJ		575.0	-2.1	-0.08	559.5	-18.6	-0.70	ZZ
BEU1VW		580.0	2.9	0.11	577.5	-0.6	-0.02	ZZ
BGWVK2	X	592.5	15.4	0.58	559.5	-18.6	-0.70	ZZ
BJL6BU	*	557.0	-20.1	-0.76	587.0	8.9	0.33	ZZ
BMUFJJ		556.0	-21.1	-0.79	564.5	-13.6	-0.51	ZZ
C3TRRU		537.0	-40.1	-1.51	541.0	-37.1	-1.39	ZZ
CLDUVF		607.0	29.9	1.12	602.5	24.4	0.92	ZZ
CRSHHX		596.5	19.4	0.73	612.0	33.9	1.27	ZZ
CTUZJT		585.7	8.6	0.32	575.2	-2.9	-0.11	ZZ
DA7MZE	X	597.5	20.4	0.76	637.5	59.4	2.23	ZZ
DBP11H		571.5	-5.6	-0.21	595.0	16.9	0.64	ZZ
DPBM8B		593.0	15.9	0.60	591.5	13.4	0.50	ZZ
DX96WZ		632.0	54.9	2.06	624.0	45.9	1.72	ZZ
E3GGLT		553.5	-23.6	-0.89	555.5	-22.6	-0.85	ZZ
EE1A7T		589.0	11.9	0.45	583.5	5.4	0.20	ZZ
EQJF93		612.5	35.4	1.33	609.5	31.4	1.18	ZZ
F2FDF2		598.0	20.9	0.78	587.5	9.4	0.35	ZZ
FA2X1Z		576.5	-0.6	-0.02	586.5	8.4	0.32	ZZ
G7ALKV		535.0	-42.1	-1.58	525.0	-53.1	-1.99	ZZ
GKKQXP		617.5	40.4	1.51	609.0	30.9	1.16	ZZ
GMCNFG	*	510.5	-66.6	-2.50	504.0	-74.1	-2.78	ZZ
GUR2BD		546.5	-30.6	-1.15	558.0	-20.1	-0.75	ZZ
H9UWVL		566.3	-10.9	-0.41	567.2	-10.9	-0.41	ZZ
HAXT33		550.0	-27.1	-1.02	559.5	-18.6	-0.70	ZZ
HHBVV		588.5	11.4	0.43	601.5	23.4	0.88	ZZ
KHCCD6		620.0	42.9	1.61	622.5	44.4	1.67	ZZ
KJLVCW	*	613.0	35.9	1.35	632.5	54.4	2.04	ZZ
KRGVNH		564.5	-12.6	-0.47	582.5	4.4	0.17	ZZ
KU1S9N		573.0	-4.1	-0.16	574.5	-3.6	-0.13	ZZ
KYV5V4		589.5	12.4	0.46	591.5	13.4	0.50	ZZ
L2B6F3		564.5	-12.6	-0.47	575.0	-3.1	-0.12	ZZ
LMC4UP		521.5	-55.6	-2.09	524.5	-53.6	-2.01	ZZ
LV7SDT		560.5	-16.6	-0.62	541.0	-37.1	-1.39	ZZ
LXZLMH		564.0	-13.1	-0.49	571.5	-6.6	-0.25	ZZ
M574FT		561.0	-16.1	-0.61	565.0	-13.1	-0.49	ZZ

Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MU3N3P	X	541.5	-35.6	-1.34	593.5	15.4	0.58	ZZ
NGVX1F	X	476.0	-101.1	-3.79	476.5	-101.6	-3.81	ZZ
NS1ALV		617.0	39.9	1.50	630.0	51.9	1.95	ZZ
NXTNBR	X	491.5	-85.6	-3.21	597.0	18.9	0.71	ZZ
NYERS5		540.5	-36.6	-1.37	533.0	-45.1	-1.69	ZZ
PRLJ1H		575.0	-2.1	-0.08	581.5	3.4	0.13	ZZ
PX5JFV		577.0	-0.1	-0.01	585.0	6.9	0.26	ZZ
Q9K7A1		594.0	16.9	0.63	585.0	6.9	0.26	ZZ
QQUJX5	X	751.0	173.9	6.52	660.5	82.4	3.09	ZZ
QS3MSG		578.5	1.4	0.05	579.5	1.4	0.05	ZZ
QXR8KB		560.0	-17.1	-0.64	555.0	-23.1	-0.87	ZZ
QZQX9X		542.5	-34.6	-1.30	543.0	-35.1	-1.32	ZZ
R15HYR		565.0	-12.1	-0.46	550.0	-28.1	-1.05	ZZ
R7B5TF		610.5	33.4	1.25	600.5	22.4	0.84	ZZ
R83R6Y		541.5	-35.6	-1.34	539.0	-39.1	-1.47	ZZ
RBXGGB		594.0	16.9	0.63	581.5	3.4	0.13	ZZ
RNEHB5		620.5	43.4	1.63	622.0	43.9	1.65	ZZ
RW8AFX		607.4	30.2	1.13	610.5	32.5	1.22	ZZ
S3WR3E		585.5	8.4	0.31	575.0	-3.1	-0.12	ZZ
SA8CVJ	*	578.5	1.4	0.05	549.0	-29.1	-1.09	ZZ
SB2L1Z		565.0	-12.1	-0.46	565.0	-13.1	-0.49	ZZ
SND4HV		600.0	22.9	0.86	588.5	10.4	0.39	ZZ
T8S5W1		571.5	-5.6	-0.21	561.5	-16.6	-0.62	ZZ
TE4WFZ		584.0	6.9	0.26	582.0	3.9	0.15	ZZ
TLV635		582.1	5.0	0.19	588.8	10.7	0.40	ZZ
TXZZ2Q		572.0	-5.1	-0.19	568.0	-10.1	-0.38	ZZ
U1U7TC		569.4	-7.7	-0.29	578.4	0.3	0.01	ZZ
UJNMUG		572.5	-4.6	-0.17	566.0	-12.1	-0.45	ZZ
UVX7D9		553.5	-23.6	-0.89	547.5	-30.6	-1.15	ZZ
UZ2QXP		600.0	22.9	0.86	605.0	26.9	1.01	ZZ
VDGUK		599.0	21.9	0.82	599.0	20.9	0.79	ZZ
VF46LG		548.2	-29.0	-1.09	557.7	-20.4	-0.77	ZZ
VJYTRH		598.5	21.4	0.80	593.5	15.4	0.58	ZZ
VPTS16		555.0	-22.1	-0.83	562.0	-16.1	-0.60	ZZ
W6Y6GT		559.5	-17.6	-0.66	558.8	-19.3	-0.73	ZZ

Analysis 606

Ultimate Elongation (percent)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
W8N311		588.0	10.9	0.41	582.5	4.4	0.17	ZZ
WQVPS8		605.7	28.5	1.07	607.6	29.5	1.11	ZZ
WTHRS7		612.2	35.0	1.31	614.8	36.7	1.38	ZZ
WUCMM		622.1	44.9	1.69	614.2	36.1	1.35	ZZ
WYFZH1	*	595.0	17.9	0.67	619.0	40.9	1.54	ZZ
WZEY19	*	645.5	68.4	2.56	623.5	45.4	1.70	ZZ
X6EPY5		565.5	-11.6	-0.44	565.5	-12.6	-0.47	ZZ
YMGLX		578.0	0.9	0.03	578.5	0.4	0.02	ZZ
YNJZHQ		578.0	0.9	0.03	574.0	-4.1	-0.15	ZZ
ZCYGM3		568.5	-8.6	-0.32	581.0	2.9	0.11	ZZ
ZKVAR3	X	481.0	-96.1	-3.61	492.5	-85.6	-3.21	ZZ
ZLKSCV		578.5	1.4	0.05	565.0	-13.1	-0.49	ZZ

Summary Statistics	
Grand Means	577.14 percent
	578.08 percent
Std Dev Btwn Labs	26.65 percent
	26.65 percent
Statistics based on 107 of 117 reporting participants	

Samples D71-D72: Polyisoprene compound, batch #1 & D73-D74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #606

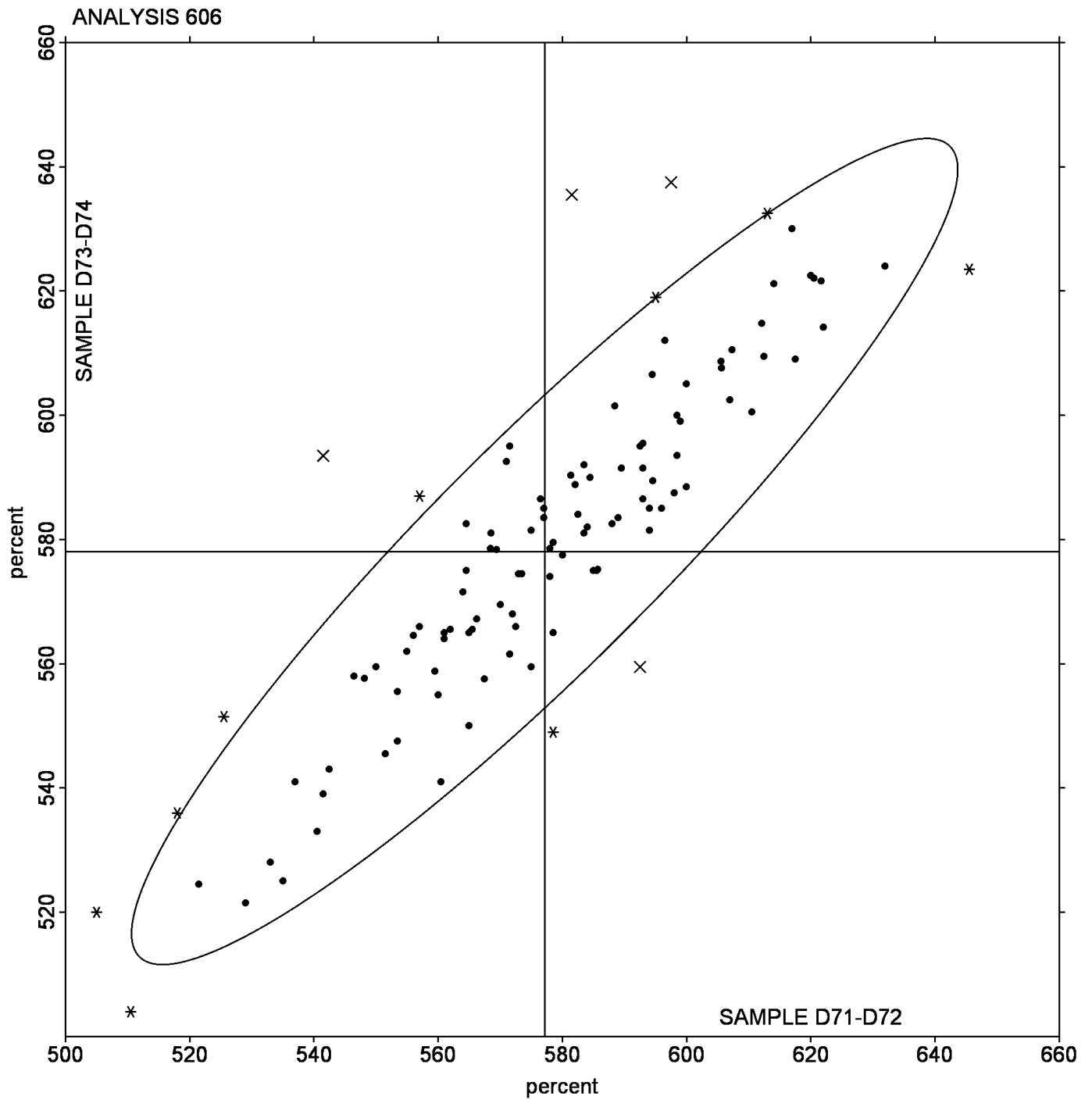
- 1G3NH7 (X) - Data for all Samples are low.
- 7P53QT (X) - Inconsistency in testing between Sample sets.
- 965RXA (X) - Extreme data for both Sample sets. Data appear to be off by a factor of 10.
- BGWVK2 (X) - Inconsistency in testing between Sample sets.
- DA7MZE (X) - Inconsistency in testing between Sample sets.
- MU3N3P (X) - Inconsistency in testing between Sample sets.
- NGVX1F (X) - Data for all Samples are low. Possible Systematic Error.
- NXTNBR (X) - Inconsistency in testing between Sample sets. Data for Sample set D71-D72 are low. Also inconsistent in testing within Sample set D73-D74
- QQJX5 (X) - Data for all Samples are high. Also inconsistent in testing within Sample set D71-D72.
- ZKVAR3 (X) - Data for all Samples are low.

Analysis 606

Ultimate Elongation (percent)

Grand Mean Sample D71-D72 = 577.14 percent

Grand Mean Sample D73-D74 = 578.08 percent



Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
11WLKY		1,226.5	92.7	1.45	1,197.5	76.0	1.24	ZZ
12VHH9	*	1,259.7	125.8	1.97	1,285.0	163.6	2.67	ZZ
1R6PF6		1,196.6	62.7	0.98	1,162.5	41.0	0.67	ZZ
1UE5D9		1,128.1	-5.8	-0.09	1,133.1	11.6	0.19	ZZ
246M33	*	1,237.5	103.7	1.62	1,147.5	26.0	0.43	ZZ
29Z4F9		1,235.0	101.2	1.58	1,188.5	67.0	1.09	ZZ
2EVU2D		1,116.8	-17.0	-0.27	1,064.6	-56.9	-0.93	ZZ
2G8GWY		1,214.5	80.7	1.26	1,202.0	80.5	1.32	ZZ
2P4A1Y		1,025.5	-108.3	-1.69	1,068.5	-53.0	-0.87	ZZ
31P18F		1,124.0	-9.8	-0.15	1,176.5	55.0	0.90	ZZ
3ESKRS	X	854.5	-279.3	-4.36	1,035.0	-86.5	-1.41	ZZ
3F1SUL		1,089.5	-44.3	-0.69	1,074.5	-47.0	-0.77	ZZ
3LBNS3		1,126.5	-7.3	-0.11	1,116.5	-5.0	-0.08	ZZ
3NPCCT		1,158.9	25.0	0.39	1,134.2	12.7	0.21	ZZ
3YH84N		1,126.2	-7.6	-0.12	1,120.4	-1.1	-0.02	ZZ
41UHBY		1,075.0	-58.8	-0.92	1,096.0	-25.5	-0.42	ZZ
4FHHNK		1,131.0	-2.8	-0.04	1,156.5	35.0	0.57	ZZ
4TNTXT	*	1,100.5	-33.3	-0.52	1,016.0	-105.5	-1.72	ZZ
4XU2P9		1,154.0	20.2	0.32	1,186.5	65.0	1.06	ZZ
5FVLKJ		1,114.6	-19.2	-0.30	1,156.0	34.5	0.56	ZZ
5HXLKF	*	1,246.0	112.2	1.75	1,153.0	31.5	0.51	ZZ
5JQCF9		1,213.3	79.4	1.24	1,224.9	103.4	1.69	ZZ
5S8RLD		1,173.5	39.7	0.62	1,121.0	-0.5	-0.01	ZZ
5SUSX2		1,089.2	-44.6	-0.70	1,111.7	-9.8	-0.16	ZZ
5T3P5Y		1,226.0	92.2	1.44	1,239.0	117.5	1.92	ZZ
61TDX2		1,158.5	24.7	0.39	1,137.0	15.5	0.25	ZZ
6G36WR		1,044.4	-89.5	-1.40	1,037.8	-83.7	-1.37	ZZ
6Q8TBW		1,150.5	16.7	0.26	1,120.5	-1.0	-0.02	ZZ
6XQ6QN		1,084.0	-49.8	-0.78	1,084.0	-37.5	-0.61	ZZ
6Z8VN1		1,177.3	43.4	0.68	1,164.9	43.4	0.71	ZZ
75GZ47		1,151.5	17.7	0.28	1,134.5	13.0	0.21	ZZ
7K3RB9		1,060.0	-73.8	-1.15	1,045.0	-76.5	-1.25	ZZ
7KFF31		1,058.5	-75.3	-1.18	1,044.0	-77.5	-1.27	ZZ
7PZRRB		1,073.0	-60.8	-0.95	1,050.0	-71.5	-1.17	ZZ
7R1V7C		1,073.3	-60.5	-0.95	1,051.5	-69.9	-1.14	ZZ

Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
8PCK35	X	881.8	-252.0	-3.94	931.6	-189.9	-3.10	ZZ
9X3J2Q	X	1,957.0	823.2	12.86	1,886.9	765.5	12.50	ZZ
AFCXYA		1,206.0	72.2	1.13	1,179.2	57.7	0.94	ZZ
AFFWFL		1,146.0	12.2	0.19	1,176.0	54.5	0.89	ZZ
AVS6LZ		1,119.0	-14.8	-0.23	1,102.5	-19.0	-0.31	ZZ
BBN44U		1,089.5	-44.3	-0.69	1,106.5	-15.0	-0.24	ZZ
BMXYQ		1,197.5	63.7	0.99	1,225.0	103.5	1.69	ZZ
C6JY9W		1,214.5	80.7	1.26	1,203.0	81.5	1.33	ZZ
C7LYUA		1,098.0	-35.8	-0.56	1,105.5	-16.0	-0.26	ZZ
CDC5SB		1,105.2	-28.6	-0.45	1,075.5	-46.0	-0.75	ZZ
CME358		1,108.0	-25.8	-0.40	1,061.5	-60.0	-0.98	ZZ
CV2EQZ		1,249.5	115.7	1.81	1,192.9	71.5	1.17	ZZ
D3W9BG		1,054.0	-79.8	-1.25	1,052.5	-69.0	-1.13	ZZ
DDVA3N		1,240.1	106.3	1.66	1,189.3	67.8	1.11	ZZ
DGM1DY		1,175.0	41.2	0.64	1,181.5	60.0	0.98	ZZ
DXZG9M		1,047.5	-86.3	-1.35	1,080.5	-41.0	-0.67	ZZ
DY5U5N	X	1,425.0	291.2	4.55	1,362.0	240.5	3.93	ZZ
E54QGS		1,034.0	-99.8	-1.56	1,039.5	-82.0	-1.34	ZZ
EHL3JV		1,108.8	-25.0	-0.39	1,102.3	-19.2	-0.31	ZZ
ENJZMZ		1,116.1	-17.7	-0.28	1,151.4	29.9	0.49	ZZ
ERUULY		1,125.5	-8.4	-0.13	1,151.3	29.8	0.49	ZZ
GGDA97		1,135.5	1.7	0.03	1,110.0	-11.5	-0.19	ZZ
GXDF5U	X	1,168.5	34.7	0.54	1,277.0	155.5	2.54	ZZ
H8T5LS		1,133.5	-0.4	-0.01	1,143.6	22.2	0.36	ZZ
HCRS57		1,153.5	19.7	0.31	1,104.5	-17.0	-0.28	ZZ
HK7E89		1,123.5	-10.3	-0.16	1,144.0	22.5	0.37	ZZ
J8MYT3		1,068.5	-65.3	-1.02	1,068.0	-53.5	-0.87	ZZ
JCGW27		1,081.0	-52.8	-0.83	1,055.0	-66.5	-1.09	ZZ
JDUVBA	M	1,337.0	203.2	3.17	1,182.0	60.5	0.99	ZZ
JMN17X		1,197.0	63.2	0.99	1,168.5	47.0	0.77	ZZ
K36FNY		1,056.5	-77.3	-1.21	1,025.0	-96.5	-1.58	ZZ
LJDSYP	*	1,218.3	84.5	1.32	1,261.8	140.4	2.29	ZZ
MCV2BG		1,086.3	-47.5	-0.74	1,049.4	-72.1	-1.18	ZZ
MJR3BG		1,211.5	77.7	1.21	1,183.0	61.5	1.01	ZZ
MNV97L		1,185.0	51.2	0.80	1,167.5	46.0	0.75	ZZ

Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MP2ATY		1,194.5	60.7	0.95	1,162.5	41.0	0.67	ZZ
MP5DMV		1,066.0	-67.8	-1.06	1,073.5	-48.0	-0.78	ZZ
MRHYJB	X	1,238.0	104.2	1.63	1,335.0	213.5	3.49	ZZ
MSCD2A		1,085.0	-48.8	-0.76	1,092.5	-29.0	-0.47	ZZ
N8MV41		1,136.5	2.7	0.04	1,111.5	-10.0	-0.16	ZZ
NAB4BG		1,006.7	-127.1	-1.99	1,052.7	-68.8	-1.12	ZZ
NANQ65		1,064.0	-69.8	-1.09	1,071.0	-50.5	-0.82	ZZ
NURMA		1,122.5	-11.3	-0.18	1,144.5	23.0	0.38	ZZ
NYT9G4		1,162.5	28.7	0.45	1,173.4	51.9	0.85	ZZ
P34S44		1,225.5	91.7	1.43	1,192.0	70.5	1.15	ZZ
P8TGHM		1,073.0	-60.8	-0.95	1,084.5	-37.0	-0.60	ZZ
PN3R3G		1,115.4	-18.4	-0.29	1,098.5	-23.0	-0.38	ZZ
PNHLQQ	X	1,599.5	465.7	7.28	1,570.5	449.0	7.34	ZZ
PVFA8E		1,197.5	63.7	0.99	1,156.0	34.5	0.56	ZZ
Q2B3U8		1,078.1	-55.8	-0.87	1,058.8	-62.7	-1.02	ZZ
QHAGEG		1,195.0	61.2	0.96	1,184.0	62.5	1.02	ZZ
QWU3XF		1,127.5	-6.3	-0.10	1,106.5	-15.0	-0.24	ZZ
R53ZAL		1,198.5	64.7	1.01	1,176.0	54.5	0.89	ZZ
S3DAN6		1,073.0	-60.8	-0.95	1,043.5	-78.0	-1.27	ZZ
SJX6X8		1,010.4	-123.5	-1.93	1,031.5	-90.0	-1.47	ZZ
SQFLFK		1,145.7	11.9	0.19	1,116.8	-4.7	-0.08	ZZ
SQQWEH	X	905.5	-228.3	-3.57	960.5	-161.0	-2.63	ZZ
T2P723		1,084.5	-49.3	-0.77	1,070.5	-51.0	-0.83	ZZ
U67EN9		1,138.0	4.2	0.07	1,124.5	3.0	0.05	ZZ
V75RCA		1,156.5	22.7	0.35	1,092.5	-29.0	-0.47	ZZ
VC5Z1J		1,122.5	-11.3	-0.18	1,061.0	-60.5	-0.99	ZZ
VKL4XV		1,148.5	14.7	0.23	1,161.5	40.0	0.65	ZZ
VU7CEX		1,156.5	22.6	0.35	1,075.6	-45.9	-0.75	ZZ
VX1GMH		1,135.0	1.2	0.02	1,130.0	8.5	0.14	ZZ
W17DDL		1,139.0	5.2	0.08	1,127.5	6.0	0.10	ZZ
W2Z1E8		1,132.0	-1.8	-0.03	1,124.1	2.6	0.04	ZZ
WH7YZT		1,145.0	11.2	0.17	1,116.5	-5.0	-0.08	ZZ
WPP6TC		1,094.3	-39.5	-0.62	1,068.9	-52.5	-0.86	ZZ
X17JJM		1,129.0	-4.8	-0.08	1,112.5	-9.0	-0.15	ZZ
X5SEPB	*	1,323.5	189.7	2.96	1,299.5	178.0	2.91	ZZ

Analysis 607

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XLRN3Q		1,137.5	3.7	0.06	1,108.0	-13.5	-0.22	ZZ
YKWKP9		1,150.0	16.2	0.25	1,145.0	23.5	0.38	ZZ
YS6EKU		1,049.0	-84.8	-1.33	1,061.0	-60.5	-0.99	ZZ
YTXFJR	*	1,147.5	13.7	0.21	1,045.0	-76.5	-1.25	ZZ
Z38UHZ	*	948.0	-185.8	-2.90	959.1	-162.4	-2.65	ZZ

Summary Statistics			
Grand Means	1,133.83	psi	1,121.48
			psi
Std Dev Btwn Labs	64.01	psi	61.21
			psi
Statistics based on 101 of 110 reporting participants			

Summary Statistics in SI Units			
Grand Means	7.8174	MPa	7.73
			MPa
Std Dev Btwn Labs	0.4413	MPa	0.42
			MPa
Statistics based on 101 of 110 reporting participants			

Samples D71-D72: Polyisoprene compound, batch #1 & D73-D74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #607

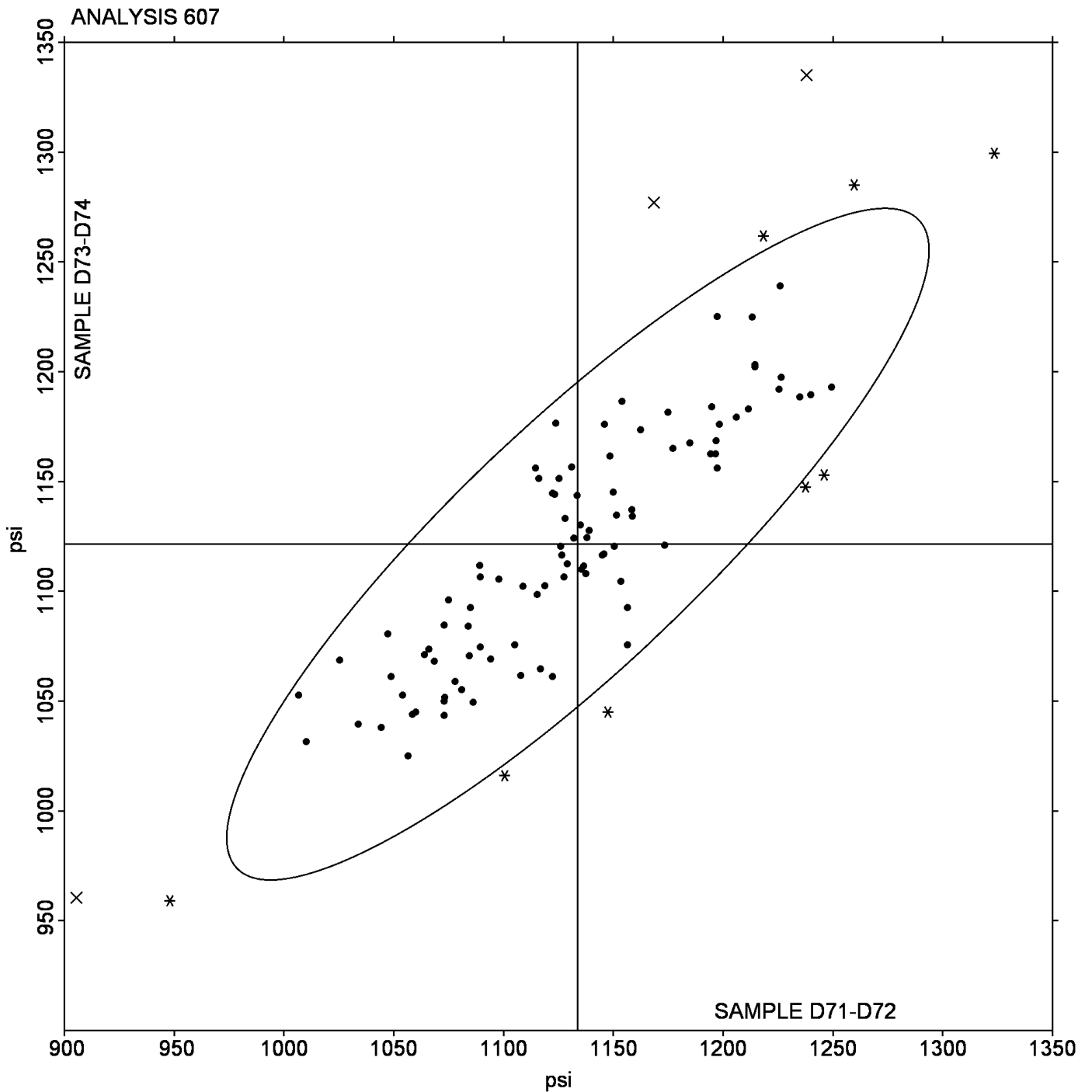
- 3ESKRS (X) - Inconsistency in testing between Sample sets. Low data for Sample D71-D72.
- 8PCK35 (X) - Data for all Samples are low.
- 9X3J2Q (X) - Data for all Samples are high.
- DY5U5N (X) - Data for all Samples are high.
- GXDF5U (X) - Inconsistency in testing between Sample sets.
- JDUVBA (M) - High data for Sample set D71-D72. Lab did not report data for Sample set D74.
- MRHYJB (X) - Inconsistency in testing between Sample sets. High data for Sample set D73-D74.
- PNHLQQ (X) - Data for all Samples are high.
- SQQWEH (X) - Inconsistency in testing between Sample sets. Low data for Sample D71-D72.

Analysis 607

Stress at 300% Elongation (psi)

Grand Mean Sample D71-D72 = 1,133.83 psi

Grand Mean Sample D73-D74 = 1,121.48 psi



Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23Z8RV	*	238.0	-3.0	-0.20	220.0	-19.5	-1.55	ZZ
2B55HE		223.0	-18.0	-1.24	220.0	-19.5	-1.55	ZZ
2WKDBC		237.5	-3.5	-0.24	237.0	-2.5	-0.20	ZZ
3Q2DLS		221.5	-19.5	-1.34	220.5	-19.0	-1.51	ZZ
3VVLH2		260.0	19.0	1.31	244.0	4.5	0.36	ZZ
41JM1S		255.4	14.4	0.99	243.6	4.1	0.33	ZZ
4HFBUA		253.8	12.8	0.88	253.8	14.4	1.14	ZZ
4K1ZB3	X	246.5	5.5	0.38	220.5	-19.0	-1.51	ZZ
4MXAPH		249.5	8.5	0.59	246.5	7.0	0.56	ZZ
4SCAAV	X	255.5	14.5	1.00	275.5	36.0	2.86	ZZ
4WARMF		239.0	-2.0	-0.14	247.5	8.0	0.64	ZZ
57XTA4		257.5	16.5	1.14	260.5	21.0	1.67	ZZ
5L5CT2		227.5	-13.5	-0.93	229.5	-10.0	-0.79	ZZ
5V1JBE		232.8	-8.2	-0.56	235.0	-4.5	-0.36	ZZ
62H6VH		234.0	-7.0	-0.48	230.5	-9.0	-0.71	ZZ
6EGWUX		249.0	8.0	0.55	251.5	12.0	0.96	ZZ
6XWT7P		246.5	5.5	0.38	250.5	11.0	0.88	ZZ
73FB2B		229.8	-11.2	-0.77	227.1	-12.4	-0.98	ZZ
74B9JB		249.5	8.5	0.59	259.5	20.0	1.59	ZZ
75C2J5		231.0	-10.0	-0.69	231.5	-8.0	-0.63	ZZ
7643H2		251.0	10.0	0.69	260.5	21.0	1.67	ZZ
7AG3D7		234.2	-6.7	-0.46	229.9	-9.6	-0.76	ZZ
7LAH6P		250.5	9.5	0.66	246.0	6.5	0.52	ZZ
7YKKW1		238.0	-3.0	-0.20	241.0	1.5	0.12	ZZ
86XA25		253.0	12.0	0.83	248.0	8.5	0.68	ZZ
8JXYC1	X	282.8	41.9	2.88	255.3	15.8	1.26	ZZ
8KS5RR		222.0	-19.0	-1.30	231.0	-8.5	-0.67	ZZ
93DPV3		261.0	20.0	1.38	250.0	10.5	0.84	ZZ
93SL13		236.5	-4.5	-0.31	248.0	8.5	0.68	ZZ
9FLET5	*	235.9	-5.1	-0.35	255.9	16.4	1.31	ZZ
9QBKW9		228.0	-13.0	-0.89	220.0	-19.5	-1.55	ZZ
ADZUY		244.4	3.4	0.23	240.8	1.3	0.10	ZZ
B84PJN		227.5	-13.5	-0.93	226.7	-12.8	-1.01	ZZ
BC5Z1N	X	407.1	166.1	11.42	399.3	159.9	12.70	ZZ
BHXMU		255.0	14.0	0.96	262.5	23.0	1.83	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BN5JB3	*	245.5	4.5	0.31	260.0	20.5	1.63	ZZ
C96W2D		230.3	-10.7	-0.74	228.0	-11.5	-0.91	ZZ
CKXP55		241.0	0.0	0.00	235.0	-4.5	-0.35	ZZ
CS6VCM		223.8	-17.2	-1.18	227.1	-12.3	-0.98	ZZ
DAWY7		268.3	27.3	1.88	253.8	14.4	1.14	ZZ
DCGHW4		249.5	8.5	0.59	239.0	-0.5	-0.04	ZZ
DDFFPD		231.5	-9.5	-0.65	237.0	-2.5	-0.20	ZZ
ED1BUL		214.0	-27.0	-1.85	221.5	-18.0	-1.43	ZZ
EJG65W		241.5	0.5	0.04	253.1	13.6	1.08	ZZ
ELDZC9		235.0	-6.0	-0.41	231.0	-8.5	-0.67	ZZ
FAA856		232.5	-8.5	-0.58	232.5	-7.0	-0.55	ZZ
FF687N		257.5	16.5	1.14	259.0	19.5	1.55	ZZ
FPRJXF		231.5	-9.5	-0.65	230.5	-9.0	-0.71	ZZ
FV7DJB		243.0	2.0	0.14	249.0	9.5	0.76	ZZ
G4TUQS		234.2	-6.7	-0.46	235.7	-3.8	-0.30	ZZ
GQEEXU	X	309.0	68.0	4.68	286.5	47.0	3.74	ZZ
HAD9VA		226.0	-15.0	-1.03	229.0	-10.5	-0.83	ZZ
HF6A5B	*	262.8	21.8	1.50	241.3	1.8	0.14	ZZ
HUGN7P		255.9	15.0	1.03	252.0	12.5	0.99	ZZ
HYPM2V		271.9	31.0	2.13	262.5	23.1	1.83	ZZ
J5PAL8		240.0	-0.9	-0.06	238.6	-0.9	-0.07	ZZ
J617QD		235.2	-5.8	-0.40	236.9	-2.5	-0.20	ZZ
J81KSJ		228.0	-13.0	-0.89	230.5	-9.0	-0.71	ZZ
JHA86W	X	349.5	108.5	7.46	348.5	109.0	8.66	ZZ
JR5EWG		247.0	6.0	0.41	247.5	8.0	0.64	ZZ
JSLBLV		206.2	-34.7	-2.39	213.3	-26.1	-2.07	ZZ
JUCJWK		237.0	-4.0	-0.27	233.5	-6.0	-0.47	ZZ
JYZZ3X		252.0	11.0	0.76	246.5	7.0	0.56	ZZ
K4RG19		257.0	16.0	1.10	244.0	4.5	0.36	ZZ
K6ET21	*	244.5	3.5	0.24	223.0	-16.5	-1.31	ZZ
K8CGXN		216.5	-24.5	-1.68	219.0	-20.5	-1.63	ZZ
KB25VN		275.0	34.0	2.34	266.5	27.0	2.15	ZZ
LY99NM	*	284.5	43.5	2.99	274.0	34.5	2.74	ZZ
LZ1UDL		233.5	-7.5	-0.51	237.1	-2.3	-0.18	ZZ
M5V868		238.0	-3.0	-0.20	237.5	-2.0	-0.16	ZZ

Rubber Interlaboratory Testing Program

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MEWWN		231.0	-10.0	-0.69	235.5	-4.0	-0.31	ZZ
MYMK1		242.0	1.0	0.07	245.0	5.5	0.44	ZZ
N3RRWJ		237.0	-4.0	-0.27	238.0	-1.5	-0.12	ZZ
N59YTX		253.8	12.8	0.88	244.4	4.9	0.39	ZZ
NC89WP		232.6	-8.4	-0.58	230.3	-9.2	-0.73	ZZ
P2UQDY		247.0	6.0	0.41	249.0	9.5	0.76	ZZ
P9GYEN		257.0	16.0	1.10	243.0	3.5	0.28	ZZ
P9KXVX		227.0	-14.0	-0.96	230.5	-9.0	-0.71	ZZ
PANTPM	X	179.4	-61.6	-4.23	184.6	-54.9	-4.36	ZZ
QHU2HT		233.5	-7.5	-0.51	230.0	-9.5	-0.75	ZZ
RB6W3X		235.0	-6.0	-0.41	231.0	-8.5	-0.67	ZZ
RDBSPG		251.6	10.7	0.73	241.5	2.0	0.16	ZZ
RFHANC		224.1	-16.9	-1.16	222.6	-16.8	-1.34	ZZ
RHK9MJ		238.9	-2.1	-0.14	237.0	-2.5	-0.20	ZZ
RJ279H		252.5	11.5	0.79	244.0	4.5	0.36	ZZ
RNYV2A		223.8	-17.2	-1.18	229.3	-10.1	-0.81	ZZ
RYD6BE		232.1	-8.9	-0.61	228.4	-11.0	-0.88	ZZ
S14YT3		228.5	-12.5	-0.86	244.5	5.0	0.40	ZZ
S1LYPD	X	151.0	-90.0	-6.19	149.0	-90.5	-7.19	ZZ
S8YCMW		239.5	-1.5	-0.10	246.5	7.0	0.56	ZZ
SBA3DB		224.2	-16.8	-1.15	232.3	-7.2	-0.57	ZZ
SRBLFW		244.0	3.0	0.21	234.5	-5.0	-0.39	ZZ
T79MDH		261.1	20.1	1.38	266.9	27.4	2.18	ZZ
U55DZJ		236.1	-4.9	-0.34	234.6	-4.9	-0.39	ZZ
UHFRM4		235.5	-5.5	-0.38	226.5	-13.0	-1.03	ZZ
UM7M4V		249.5	8.5	0.59	243.0	3.5	0.28	ZZ
UWD9A9		246.5	5.5	0.38	243.0	3.5	0.28	ZZ
V2WQUS		227.7	-13.3	-0.91	235.7	-3.8	-0.30	ZZ
VGR5ZD		224.1	-16.9	-1.16	226.3	-13.2	-1.05	ZZ
VHPNA8		249.0	8.0	0.55	244.0	4.5	0.36	ZZ
VU16RH		237.0	-4.0	-0.27	230.5	-9.0	-0.71	ZZ
VWW7W	X	322.0	81.0	5.57	331.4	92.0	7.31	ZZ
W2DXV		220.5	-20.5	-1.41	218.5	-21.0	-1.67	ZZ
XVAPDK		223.0	-18.0	-1.24	224.5	-15.0	-1.19	ZZ
YBLJNZ	*	275.0	34.0	2.34	254.0	14.5	1.16	ZZ

Analysis 608

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YPPWWJ		232.0	-9.0	-0.62	230.5	-9.0	-0.71	ZZ
YVRAAT		247.3	6.3	0.43	248.7	9.3	0.74	ZZ
Z4D7FM	*	276.0	35.0	2.41	258.0	18.5	1.47	ZZ
Z5DM66	X	287.5	46.5	3.20	280.0	40.5	3.22	ZZ
ZD3Y3E		239.5	-1.5	-0.10	230.0	-9.5	-0.75	ZZ

Summary Statistics	
Grand Means	
240.97 psi	239.46 psi
Std Dev Btwn Labs	
14.54 psi	12.59 psi
Statistics based on 100 of 110 reporting participants	

Summary Statistics in SI Units	
Grand Means	
1.6614 MPa	1.65 MPa
Std Dev Btwn Labs	
0.1003 MPa	0.09 MPa
Statistics based on 100 of 110 reporting participants	

Samples D71-D72: Polyisoprene compound, batch #1 & D73-D74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #608

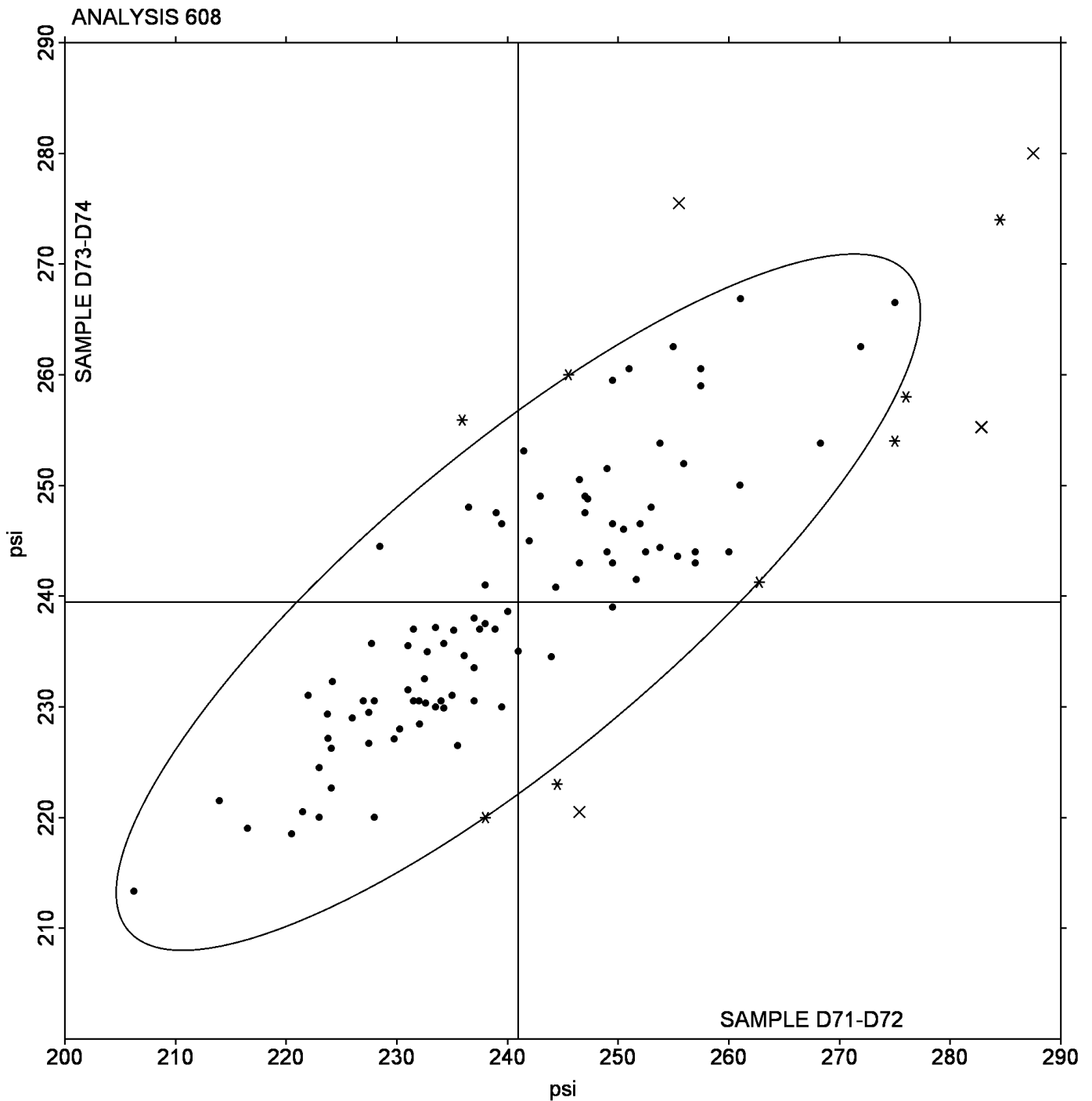
- 4K1ZB3 (X) - Inconsistency in testing between Sample sets.
- 4SCAAV (X) - Inconsistency in testing between Sample sets. High data for Sample set D73-D74.
- 8JXYC1 (X) - inconsistency in testing between Sample sets. High data for Sample set D71-D72
- BC5Z1N (X) - High data for all Sample sets.
- GQEEXU (X) - High data for all Sample sets.
- JHA86W (X) - High data for all Sample sets.
- PANTPM (X) - Low data for both Sample Sets.
- S1LYPD (X) - Low data for all Sample sets.
- VWW7WT (X) - High data for all Sample sets.
- Z5DM66 (X) - High data for all Sample sets.

Analysis 608

Stress at 100% Elongation (psi)

Grand Mean Sample D71-D72 = 240.97 psi

Grand Mean Sample D73-D74 = 239.46 psi



Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
17HYPM		50.50	-1.86	-1.12	51.30	-1.07	-0.68	ZZ
17YPK5		52.55	0.19	0.11	52.40	0.03	0.02	ZZ
1FJJD8		54.50	2.14	1.28	54.00	1.63	1.04	ZZ
1HUVFP		52.00	-0.36	-0.22	52.50	0.13	0.09	ZZ
1LGNDC		51.50	-0.86	-0.52	52.00	-0.37	-0.23	ZZ
2G9SU8		52.85	0.49	0.29	52.95	0.58	0.37	ZZ
2YW4PN		54.50	2.14	1.28	54.50	2.13	1.36	ZZ
2ZVHHV		55.00	2.64	1.58	55.00	2.63	1.68	ZZ
3QT38M		50.25	-2.11	-1.27	51.00	-1.37	-0.87	ZZ
3T3DRR		53.00	0.64	0.38	52.50	0.13	0.09	ZZ
3W71L8		54.00	1.64	0.98	54.50	2.13	1.36	ZZ
4K8M12		53.00	0.64	0.38	53.00	0.63	0.40	ZZ
4TMELY		53.00	0.64	0.38	53.00	0.63	0.40	ZZ
4UTUP5		55.00	2.64	1.58	55.00	2.63	1.68	ZZ
4ZDPVW	X	48.00	-4.36	-2.62	47.55	-4.82	-3.07	ZZ
56HUET		51.50	-0.86	-0.52	51.75	-0.62	-0.39	ZZ
57B3K9		51.75	-0.61	-0.37	52.00	-0.37	-0.23	ZZ
58R7E1	*	53.50	1.14	0.68	54.50	2.13	1.36	ZZ
5ESYSK		55.00	2.64	1.58	55.00	2.63	1.68	ZZ
5H12Z2		52.00	-0.36	-0.22	52.50	0.13	0.09	ZZ
5MR62X		52.90	0.54	0.32	52.40	0.03	0.02	ZZ
5WM2N1	X	51.50	-0.86	-0.52	53.50	1.13	0.72	ZZ
5Y5AKE		52.80	0.44	0.26	52.20	-0.17	-0.11	ZZ
64TKJZ		55.00	2.64	1.58	55.00	2.63	1.68	ZZ
6HBT2A		52.00	-0.36	-0.22	52.00	-0.37	-0.23	ZZ
6T749H		55.50	3.14	1.88	54.50	2.13	1.36	ZZ
6W7N85		55.00	2.64	1.58	55.00	2.63	1.68	ZZ
76JKH1		51.40	-0.96	-0.58	51.75	-0.62	-0.39	ZZ
791AL5		51.50	-0.86	-0.52	51.50	-0.87	-0.55	ZZ
7AR457		50.00	-2.36	-1.42	50.00	-2.37	-1.51	ZZ
7J4SS2		51.75	-0.61	-0.37	52.00	-0.37	-0.23	ZZ
7KB1PE		50.20	-2.16	-1.30	50.25	-2.12	-1.35	ZZ
7TNZHQ		51.10	-1.26	-0.76	51.35	-1.02	-0.65	ZZ
85JZUZ		51.00	-1.36	-0.82	51.00	-1.37	-0.87	ZZ
8F1KEW		55.00	2.64	1.58	55.00	2.63	1.68	ZZ

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
8QAHAZ		55.10	2.74	1.64	54.65	2.28	1.46	ZZ
8QDC3Y	*	49.00	-3.36	-2.02	50.00	-2.37	-1.51	ZZ
8TWNZ3		54.00	1.64	0.98	53.50	1.13	0.72	ZZ
9N7UU1		53.20	0.84	0.50	53.30	0.93	0.60	ZZ
9PBLA4		52.00	-0.36	-0.22	52.00	-0.37	-0.23	ZZ
9QJFX8		52.60	0.24	0.14	52.55	0.18	0.12	ZZ
9SBHR3		53.00	0.64	0.38	53.00	0.63	0.40	ZZ
9VYKTQ		52.00	-0.36	-0.22	52.00	-0.37	-0.23	ZZ
A4W8W		51.90	-0.46	-0.28	51.50	-0.87	-0.55	ZZ
A8RTF4		52.10	-0.26	-0.16	52.10	-0.27	-0.17	ZZ
AACGXV		53.75	1.39	0.83	53.50	1.13	0.72	ZZ
ALLUKJ	*	51.00	-1.36	-0.82	50.00	-2.37	-1.51	ZZ
ALZQ4H		52.55	0.19	0.11	53.20	0.83	0.53	ZZ
B2N98J		53.00	0.64	0.38	53.00	0.63	0.40	ZZ
BAZZW4	X	50.40	-1.96	-1.18	52.00	-0.37	-0.23	ZZ
BRNSN8		54.50	2.14	1.28	54.00	1.63	1.04	ZZ
BYRPSS		52.25	-0.11	-0.07	52.50	0.13	0.09	ZZ
C3J4QD		54.50	2.14	1.28	54.50	2.13	1.36	ZZ
C7HFS6		51.00	-1.36	-0.82	52.00	-0.37	-0.23	ZZ
CDEW15		53.20	0.84	0.50	52.70	0.33	0.21	ZZ
CHG5SF		53.25	0.89	0.53	53.75	1.38	0.88	ZZ
D7QLJU		52.00	-0.36	-0.22	52.00	-0.37	-0.23	ZZ
DG8FYV		50.30	-2.06	-1.24	50.20	-2.17	-1.38	ZZ
ESWTJK		49.00	-3.36	-2.02	49.00	-3.37	-2.15	ZZ
F3NEWN		50.50	-1.86	-1.12	50.50	-1.87	-1.19	ZZ
F9JEWN		50.00	-2.36	-1.42	50.00	-2.37	-1.51	ZZ
FASL4H		53.00	0.64	0.38	53.00	0.63	0.40	ZZ
FH5RMG		52.00	-0.36	-0.22	52.00	-0.37	-0.23	ZZ
GEGDKQ	*	56.75	4.39	2.63	56.20	3.83	2.45	ZZ
GZZ3VW		51.55	-0.81	-0.49	51.50	-0.87	-0.55	ZZ
H44HAK		51.00	-1.36	-0.82	51.00	-1.37	-0.87	ZZ
HGR8V3		54.00	1.64	0.98	53.00	0.63	0.40	ZZ
HVPFT5		51.40	-0.96	-0.58	51.40	-0.97	-0.62	ZZ
J2JCLT		52.90	0.54	0.32	52.75	0.38	0.24	ZZ
JJQXLQ		55.50	3.14	1.88	55.00	2.63	1.68	ZZ

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
JK6M8G		52.00	-0.36	-0.22	52.00	-0.37	-0.23	ZZ
JKNBZV		52.00	-0.36	-0.22	52.50	0.13	0.09	ZZ
JNYEJS		55.00	2.64	1.58	55.00	2.63	1.68	ZZ
JUNGYF		48.60	-3.76	-2.26	49.15	-3.22	-2.05	ZZ
JWD8Z8		52.05	-0.31	-0.19	51.95	-0.42	-0.27	ZZ
JZLU3T		52.90	0.54	0.32	52.65	0.28	0.18	ZZ
KCX98R		51.25	-1.11	-0.67	51.90	-0.47	-0.30	ZZ
KGP6KF		52.35	-0.01	-0.01	52.40	0.03	0.02	ZZ
KHU6CU		53.50	1.14	0.68	54.00	1.63	1.04	ZZ
KKZWE4		53.50	1.14	0.68	53.00	0.63	0.40	ZZ
KWAFQJ		53.40	1.04	0.62	53.50	1.13	0.72	ZZ
KYQH6H		52.50	0.14	0.08	52.50	0.13	0.09	ZZ
LEV9LS		54.70	2.34	1.40	53.60	1.23	0.79	ZZ
LG17P3		51.05	-1.31	-0.79	50.40	-1.97	-1.25	ZZ
M2HDJP		54.10	1.74	1.04	53.90	1.53	0.98	ZZ
M4GDBN		52.00	-0.36	-0.22	52.00	-0.37	-0.23	ZZ
MRQSSL		52.00	-0.36	-0.22	51.50	-0.87	-0.55	ZZ
MTLL6N		53.50	1.14	0.68	53.00	0.63	0.40	ZZ
MXYKK3		51.00	-1.36	-0.82	51.00	-1.37	-0.87	ZZ
NKUBP6		52.50	0.14	0.08	53.00	0.63	0.40	ZZ
NTS5TJ		51.65	-0.71	-0.43	52.00	-0.37	-0.23	ZZ
NWK6L7	*	49.00	-3.36	-2.02	48.50	-3.87	-2.47	ZZ
NZ21AZ		49.65	-2.71	-1.63	49.30	-3.07	-1.96	ZZ
PLZCTB		50.60	-1.76	-1.06	51.25	-1.12	-0.71	ZZ
PN5TX8		53.00	0.64	0.38	53.50	1.13	0.72	ZZ
PPELMN		51.50	-0.86	-0.52	52.00	-0.37	-0.23	ZZ
PU4KXQ		50.00	-2.36	-1.42	50.00	-2.37	-1.51	ZZ
QTUWC		53.00	0.64	0.38	54.00	1.63	1.04	ZZ
QXBMTT		51.50	-0.86	-0.52	51.40	-0.97	-0.62	ZZ
RQMS78	X	54.00	1.64	0.98	55.50	3.13	2.00	ZZ
RW5CZM		54.00	1.64	0.98	53.00	0.63	0.40	ZZ
SYG6X1		52.35	-0.01	-0.01	52.45	0.08	0.05	ZZ
T3PEV3		51.50	-0.86	-0.52	51.00	-1.37	-0.87	ZZ
THYS51		54.30	1.94	1.16	54.75	2.38	1.52	ZZ
TSTW73		52.50	0.14	0.08	51.70	-0.67	-0.43	ZZ

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample D71-D72			Sample D73-D74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
U2NVDU		49.15	-3.21	-1.93	48.95	-3.42	-2.18	ZZ
UF9P2L		53.50	1.14	0.68	53.10	0.73	0.47	ZZ
UHD1K2		52.50	0.14	0.08	51.50	-0.87	-0.55	ZZ
V9KRR4		50.75	-1.61	-0.97	51.00	-1.37	-0.87	ZZ
VCBK76		52.00	-0.36	-0.22	52.00	-0.37	-0.23	ZZ
VVFJG1		50.00	-2.36	-1.42	50.00	-2.37	-1.51	ZZ
VVVWT		50.00	-2.36	-1.42	50.00	-2.37	-1.51	ZZ
W3CHSM		53.00	0.64	0.38	53.00	0.63	0.40	ZZ
W6WXEF	*	50.10	-2.26	-1.36	51.50	-0.87	-0.55	ZZ
WF3FQ4		51.50	-0.86	-0.52	52.00	-0.37	-0.23	ZZ
WJL3C4	X	41.50	-10.86	-6.51	42.50	-9.87	-6.30	ZZ
WSGDT		54.50	2.14	1.28	54.00	1.63	1.04	ZZ
XG9ELS		53.50	1.14	0.68	53.50	1.13	0.72	ZZ
XPRW7Z		50.00	-2.36	-1.42	50.75	-1.62	-1.03	ZZ

Summary Statistics			
Grand Means	52.362	Type A	52.366
Std Dev Btwn Labs	1.668	Type A	1.567
Statistics based on 114 of 119 reporting participants			

Samples D71-D72: Polyisoprene compound, batch #1 & D73-D74: Polyisoprene compound, batch #2

Comments on assigned Data Flags for Test #620

4ZDPVW (X) - Inconsistency in testing between Sample sets. Low data for Sample set D73-D74.

5WM2N1 (X) - Inconsistency in testing between Sample sets.

BAZZW4 (X) - Inconsistency in testing between Sample sets and within Sample Sets D71-D72.

RQMS78 (X) - Inconsistency in testing between and within both Sample sets.

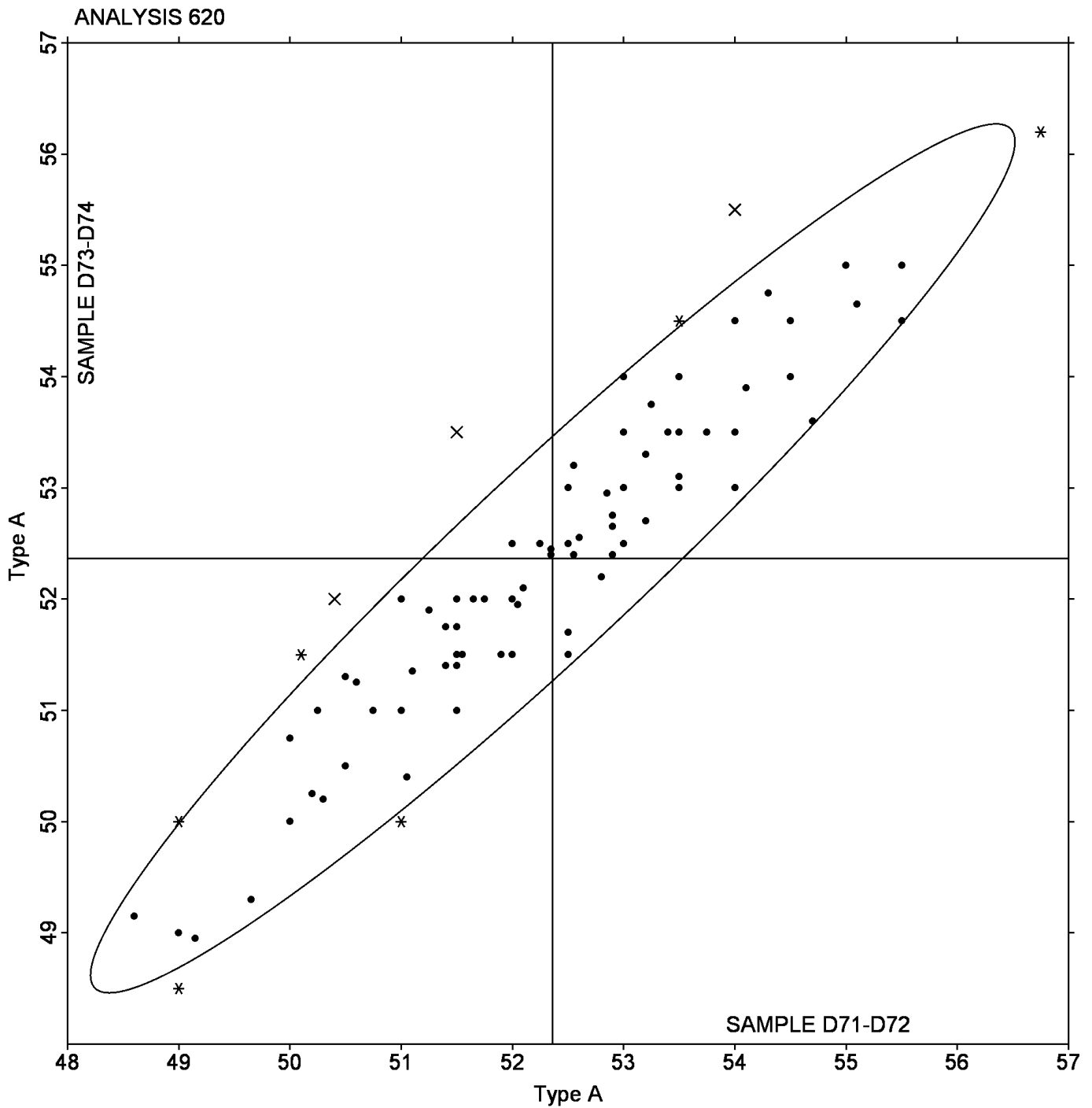
WJL3C4 (X) - Low data for all Samples.

Analysis 620

Hardness (Shore A/Type A)

Grand Mean Sample D71-D72 = 52.362 Type A

Grand Mean Sample D73-D74 = 52.366 Type A



Analysis 630

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

WebCode	Data Flag	Sample D71-D72			Sample M71-M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
13YH1T		3,219.5	-55.5	-0.36	3,040.5	-137.0	-0.69	ZZ
14W7LX		2,978.2	-296.9	-1.93	2,998.8	-178.7	-0.90	ZZ
178GS7		3,173.0	-102.0	-0.66	2,885.5	-292.0	-1.47	ZZ
435ZNG		3,125.6	-149.4	-0.97	3,103.1	-74.3	-0.37	ZZ
5YF5T1	*	3,399.0	124.0	0.81	2,731.5	-446.0	-2.24	ZZ
7XRAPX		3,444.5	169.5	1.10	2,987.0	-190.5	-0.96	ZZ
892WYH		3,269.5	-5.5	-0.04	2,991.5	-186.0	-0.93	ZZ
95E7R5		3,393.2	118.2	0.77	3,048.0	-129.5	-0.65	ZZ
9JWULF		3,113.0	-162.0	-1.05	3,077.0	-100.5	-0.50	ZZ
BC3UL8		3,287.0	12.0	0.08	3,183.0	5.5	0.03	ZZ
CSW6M2		3,007.0	-268.0	-1.74	3,174.5	-3.0	-0.01	ZZ
DR5WFE	*	3,617.3	342.2	2.23	3,640.5	463.0	2.32	ZZ
DZVKBG		3,326.5	51.5	0.33	3,158.0	-19.5	-0.10	ZZ
ETH6MP		3,308.0	33.0	0.21	3,251.5	74.0	0.37	ZZ
FFBWUD		3,298.0	23.0	0.15	3,386.5	209.0	1.05	ZZ
FH1ELD		3,463.0	188.0	1.22	3,546.0	368.5	1.85	ZZ
GQCU2D		3,134.0	-141.0	-0.92	3,091.5	-86.0	-0.43	ZZ
JBVKMF		3,030.6	-244.4	-1.59	2,853.6	-323.8	-1.62	ZZ
JV2HQ4		3,338.0	63.0	0.41	3,215.5	38.0	0.19	ZZ
LC2YCF		3,446.9	171.8	1.12	3,356.0	178.5	0.90	ZZ
LN8R7S		3,596.8	321.7	2.09	3,528.6	351.2	1.76	ZZ
M2EURE		3,345.0	70.0	0.46	3,227.5	50.0	0.25	ZZ
MJJ927		3,086.5	-188.5	-1.23	3,083.5	-94.0	-0.47	ZZ
MYBP51		3,207.0	-68.0	-0.44	3,203.5	26.0	0.13	ZZ
NEFUXP		3,331.5	56.5	0.37	3,388.0	210.5	1.06	ZZ
P3193U		3,215.0	-60.0	-0.39	3,234.5	57.0	0.29	ZZ
PH9U9K		3,299.0	24.0	0.16	3,150.5	-27.0	-0.14	ZZ
PXWBPN		3,148.0	-127.0	-0.83	3,179.5	2.0	0.01	ZZ
RLNGB8	X	4,292.2	1,017.2	6.61	3,426.7	249.3	1.25	ZZ
SCV6BK		3,067.7	-207.3	-1.35	3,030.6	-146.9	-0.74	ZZ
TFTMPE		3,440.0	165.0	1.07	3,462.5	285.0	1.43	ZZ
UQ7U91		3,171.4	-103.7	-0.67	3,344.2	166.7	0.84	ZZ
VYJKXK	X	3,307.0	32.0	0.21	2,202.0	-975.5	-4.89	ZZ
WSA78D		3,339.0	64.0	0.42	3,220.5	43.0	0.22	ZZ
X8QGC6		3,275.5	0.5	0.00	3,235.5	58.0	0.29	ZZ

Analysis 630

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

WebCode	Data Flag	Sample D71-D72			Sample M71-M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
X9425F		3,284.4	9.3	0.06	3,095.5	-82.0	-0.41	ZZ
XGBS3Z		3,195.0	-80.0	-0.52	3,035.0	-142.5	-0.71	ZZ
XXFDBN		3,228.6	-46.5	-0.30	3,074.8	-102.6	-0.52	ZZ
Y3PULB		3,446.1	171.1	1.11	3,345.3	167.9	0.84	ZZ
ZCSXCZ		3,115.5	-159.5	-1.04	3,258.0	80.5	0.40	ZZ
ZJBZLX		3,346.5	71.5	0.46	2,848.3	-329.2	-1.65	ZZ
ZNQB6X		3,491.0	216.0	1.40	3,433.0	255.5	1.28	ZZ

Summary Statistics			
Grand Means	3,275.02 psi	3,177.46 psi	
Std Dev Btwn Labs	153.79 psi	199.28 psi	
Statistics based on 40 of 42 reporting participants			

Summary Statistics in SI Units			
Grand Means	22.580 MPa	21.91 MPa	
Std Dev Btwn Labs	1.060 MPa	1.37 MPa	
Statistics based on 40 of 42 reporting participants			

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #630

RLNGB8 (X) - Inconsistency in testing between Sample sets. High data for Sample set D71-D72.

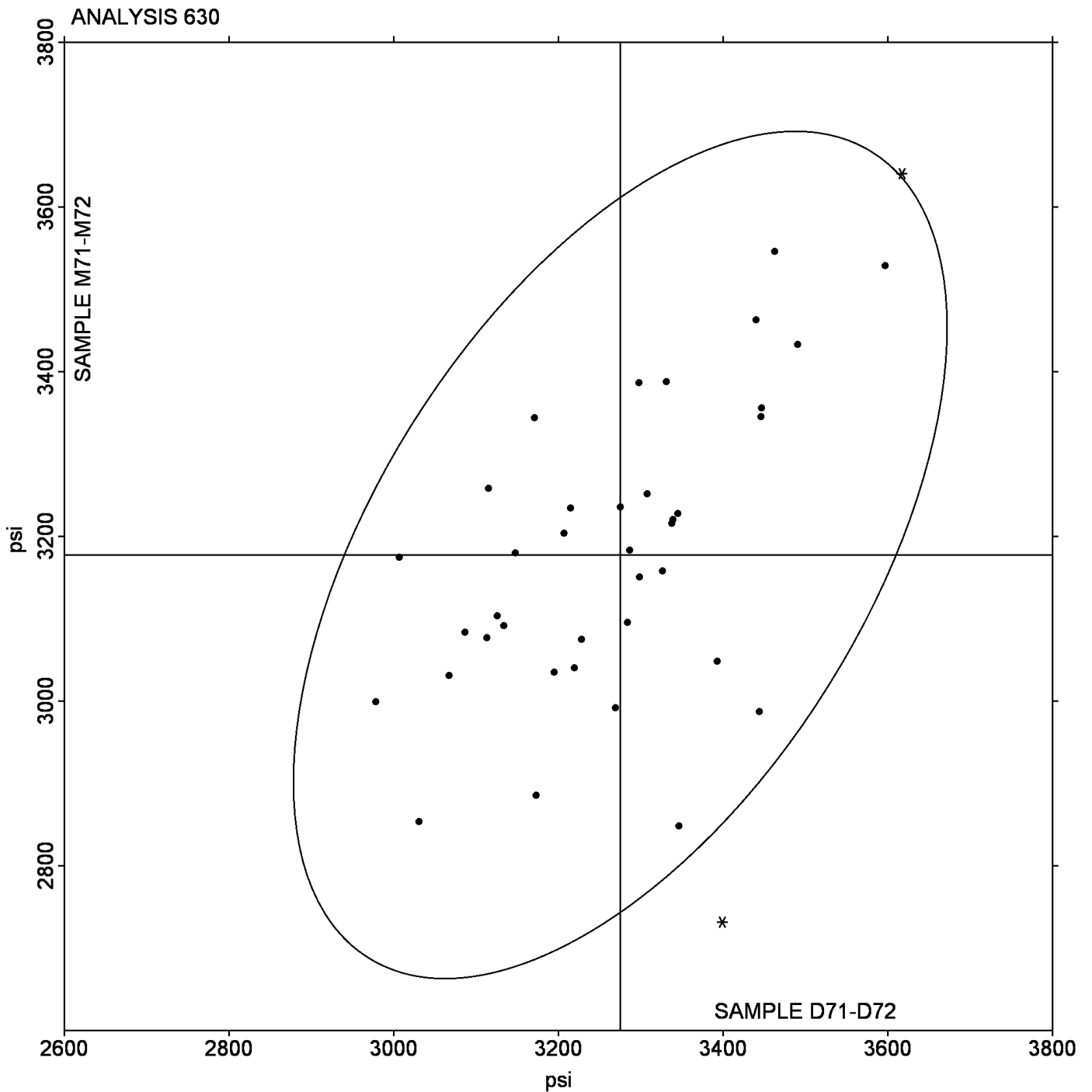
VYJKXX (X) - Inconsistency in testing between Sample sets. Low data for Sample M72.

Analysis 630

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

Grand Mean Sample D71-D72 = 3,275.02 psi

Grand Mean Sample M71-M72 = 3,177.46 psi



Analysis 631

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

WebCode	Data Flag	Sample D71-D72			Sample M71-M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2JMREQ		594.0	12.6	0.62	599.5	15.8	0.76	ZZ
2PUQV3		565.5	-15.9	-0.78	563.0	-20.7	-0.99	ZZ
2QRFAC		548.2	-33.2	-1.62	565.4	-18.3	-0.87	ZZ
38LHDY	X	621.7	40.3	1.97	546.0	-37.7	-1.80	ZZ
3GNL3G		597.5	16.1	0.79	591.5	7.8	0.37	ZZ
3MY2M1		594.0	12.6	0.62	592.0	8.3	0.40	ZZ
3R2N4X		577.0	-4.4	-0.21	584.5	0.8	0.04	ZZ
46J5YR		592.5	11.1	0.54	577.0	-6.7	-0.32	ZZ
4BETWB		571.0	-10.4	-0.51	575.0	-8.7	-0.42	ZZ
4HZH8L		598.5	17.1	0.84	597.0	13.3	0.64	ZZ
4RBN9J		620.5	39.1	1.91	620.5	36.8	1.76	ZZ
6JUP1Q		571.5	-9.9	-0.48	598.5	14.8	0.71	ZZ
6LXW84		573.0	-8.4	-0.41	575.0	-8.7	-0.42	ZZ
6ZJEXR		571.5	-9.9	-0.48	582.0	-1.7	-0.08	ZZ
72VQ42		589.0	7.6	0.37	602.5	18.8	0.90	ZZ
7T8AEJ		564.5	-16.9	-0.83	571.0	-12.7	-0.61	ZZ
9HPYFY		567.5	-13.9	-0.68	572.5	-11.2	-0.54	ZZ
AF91EL	X	585.7	4.3	0.21	537.1	-46.7	-2.23	ZZ
AYS7ZB		550.0	-31.4	-1.53	551.7	-32.0	-1.53	ZZ
E4K5BV		598.5	17.1	0.84	590.0	6.3	0.30	ZZ
EERP8X		582.5	1.1	0.05	585.0	1.3	0.06	ZZ
EKVMM		578.0	-3.4	-0.17	579.0	-4.7	-0.22	ZZ
GZV74R		617.5	36.1	1.76	620.0	36.3	1.74	ZZ
HFP7N3		577.0	-4.4	-0.21	590.5	6.8	0.33	ZZ
KLRVHF	X	510.5	-70.9	-3.46	561.5	-22.2	-1.06	ZZ
L1M4Y2		568.5	-12.9	-0.63	582.0	-1.8	-0.08	ZZ
L4VLLJ		568.5	-12.9	-0.63	566.5	-17.2	-0.82	ZZ
MUB8LS		562.0	-19.4	-0.95	561.5	-22.2	-1.06	ZZ
NKTJPC		605.6	24.2	1.18	595.4	11.7	0.56	ZZ
NT4S5D		561.0	-20.4	-1.00	553.5	-30.2	-1.44	ZZ
NY66M9		578.5	-2.9	-0.14	594.0	10.3	0.49	ZZ
RXLGZY		578.5	-2.9	-0.14	559.5	-24.2	-1.16	ZZ
S8WSPV		599.0	17.6	0.86	605.5	21.8	1.04	ZZ
SJGUE3		572.0	-9.4	-0.46	563.5	-20.2	-0.97	ZZ
T9VRP1	*	540.5	-40.9	-2.00	526.0	-57.7	-2.76	ZZ

Analysis 631

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

WebCode	Data Flag	Sample D71-D72			Sample M71-M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
TUSGCL		542.5	-38.9	-1.90	562.0	-21.7	-1.04	ZZ
VSTVUE		617.0	35.6	1.74	624.5	40.8	1.95	ZZ
WALIYY		612.2	30.8	1.50	610.4	26.7	1.28	ZZ
WD7WQ		576.5	-4.9	-0.24	581.0	-2.7	-0.13	ZZ
XNZC6E		596.5	15.1	0.74	599.0	15.3	0.73	ZZ
YCAYU		607.0	25.6	1.25	607.0	23.3	1.11	ZZ
Z6JPKJ		589.5	8.1	0.40	590.0	6.3	0.30	ZZ

Summary Statistics	
Grand Means	581.39 percent
	583.70 percent
Std Dev Btwn Labs	20.47 percent
	20.90 percent
Statistics based on 39 of 42 reporting participants	

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #631

38LHDY (X) - Inconsistency in testing between Sample sets.

AF91EL (X) - Inconsistency in testing between Sample sets. Also inconsistent in testing within Sample set M71-M72.

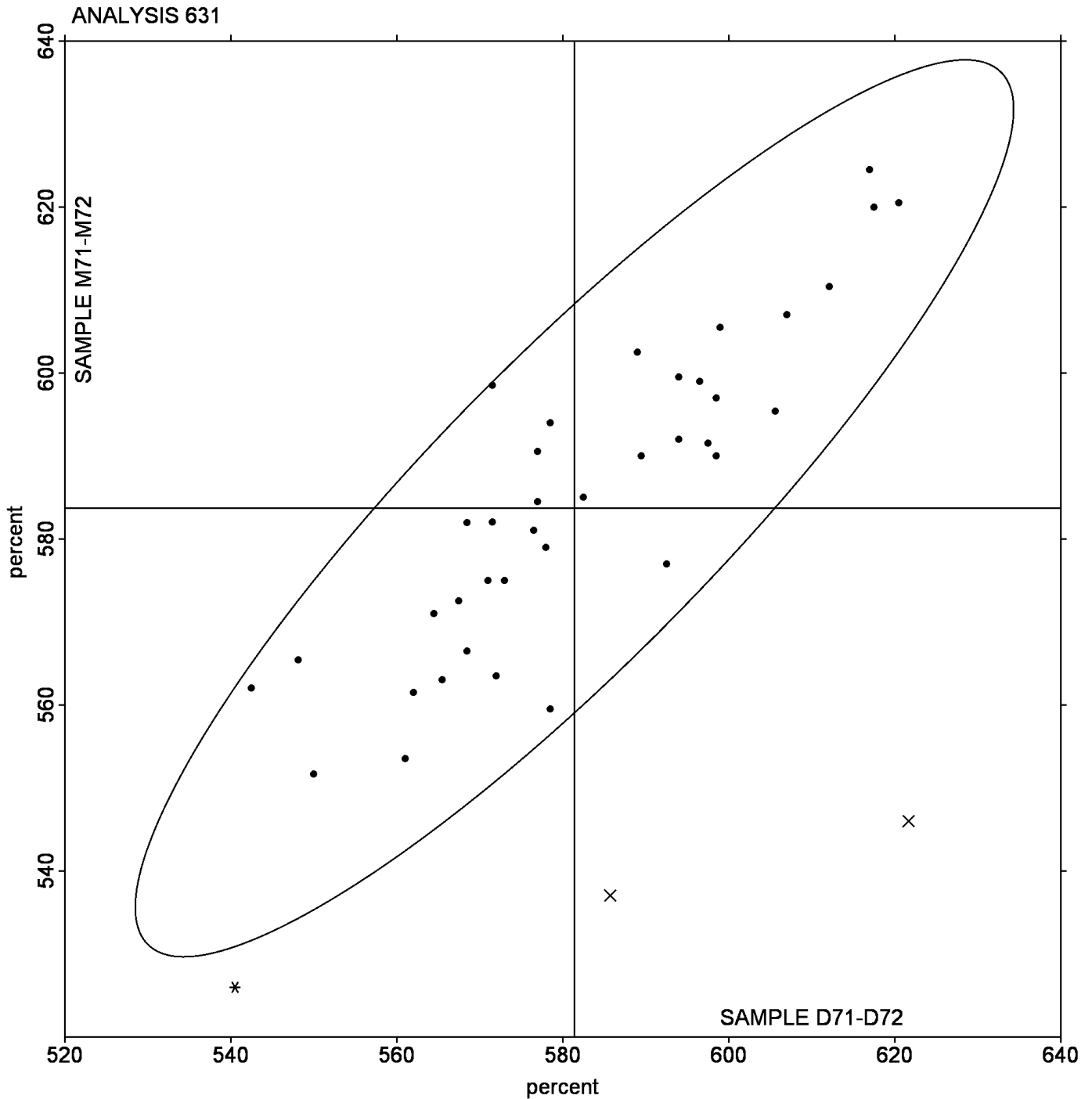
KLRVHF (X) - Low data for Sample set D71-D72

Analysis 631

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

Grand Mean Sample D71-D72 = 581.39 percent

Grand Mean Sample M71-M72 = 583.70 percent



Analysis 632

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

WebCode	Data Flag	Sample D71-D72			Sample M71-M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
22HA2C		1,249.5	128.2	1.78	1,107.4	44.0	0.53	ZZ
31XHKS		1,006.7	-114.6	-1.59	1,074.0	10.6	0.13	ZZ
3FZXVN		1,147.5	26.2	0.36	1,038.0	-25.4	-0.31	ZZ
43KT2R		1,125.5	4.2	0.06	1,136.0	72.6	0.88	ZZ
48CJHF	*	1,337.0	215.7	2.99	1,123.5	60.1	0.73	ZZ
57Z437		1,119.0	-2.3	-0.03	1,110.5	47.1	0.57	ZZ
5TC232	*	1,089.5	-31.8	-0.44	865.5	-197.9	-2.39	ZZ
8F2XX5		1,145.7	24.4	0.34	1,008.3	-55.0	-0.66	ZZ
8LC66M		1,173.5	52.2	0.72	1,168.5	105.1	1.27	ZZ
A2RAH5	X	1,122.5	1.2	0.02	729.5	-333.9	-4.03	ZZ
AMWV9		1,158.5	37.2	0.52	1,082.0	18.6	0.22	ZZ
B4254W		1,197.5	76.2	1.06	1,230.0	166.6	2.01	ZZ
BCADNP		948.0	-173.2	-2.40	894.6	-168.8	-2.04	ZZ
D7YG5E		1,137.5	16.2	0.23	1,078.0	14.6	0.18	ZZ
E3UAXM	X	1,010.4	-110.9	-1.54	1,243.0	179.6	2.17	ZZ
GANX8J		1,073.0	-48.3	-0.67	1,078.0	14.6	0.18	ZZ
GQXC1T		1,133.5	12.2	0.17	1,109.5	46.2	0.56	ZZ
GY4BD2		1,064.0	-57.3	-0.80	1,090.0	26.6	0.32	ZZ
H239L2		1,136.5	15.2	0.21	1,046.0	-17.4	-0.21	ZZ
J9KPWH		1,226.5	105.2	1.46	1,114.0	50.6	0.61	ZZ
JR5Q1E		1,044.4	-76.9	-1.07	1,049.6	-13.8	-0.17	ZZ
M68VR8		1,226.0	104.7	1.45	1,068.5	5.1	0.06	ZZ
MBUTZ3		1,154.0	32.7	0.45	1,102.0	38.6	0.47	ZZ
MRBQD4		1,206.0	84.7	1.18	1,166.8	103.5	1.25	ZZ
PFLQQ6		1,122.5	1.2	0.02	1,146.5	83.1	1.00	ZZ
QPHX74		1,123.5	2.2	0.03	1,171.5	108.1	1.30	ZZ
R5TKND		1,211.5	90.2	1.25	1,163.0	99.6	1.20	ZZ
R86QKL		1,073.0	-48.3	-0.67	1,104.5	41.1	0.50	ZZ
RDEVD6		1,085.0	-36.3	-0.50	937.5	-125.9	-1.52	ZZ
SN8QWU		1,073.3	-48.0	-0.67	964.5	-98.9	-1.19	ZZ
T8MDK5		1,058.5	-62.8	-0.87	896.0	-167.4	-2.02	ZZ
TDGRJT		1,084.5	-36.8	-0.51	965.0	-98.4	-1.19	ZZ
TJZNPX		1,089.5	-31.8	-0.44	1,007.0	-56.4	-0.68	ZZ
TZ2LB1		1,049.0	-72.3	-1.00	1,008.0	-55.4	-0.67	ZZ
U4TLG3		1,115.4	-5.9	-0.08	1,100.2	36.8	0.44	ZZ

Analysis 632

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

WebCode	Data Flag	Sample D71-D72			Sample M71-M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
UUCM1Z		1,126.2	4.9	0.07	1,087.8	24.4	0.29	ZZ
VE5P2K		1,135.0	13.7	0.19	1,114.0	50.6	0.61	ZZ
VWQUF		1,075.0	-46.3	-0.64	1,046.0	-17.4	-0.21	ZZ
WJHT9D		1,056.5	-64.8	-0.90	975.5	-87.9	-1.06	ZZ
X5C6M2	X	1,957.0	835.7	11.60	1,243.0	179.6	2.17	ZZ
XUHNDP		1,084.0	-37.3	-0.52	1,060.5	-2.9	-0.03	ZZ
ZY89AP		1,068.5	-52.8	-0.73	983.0	-80.4	-0.97	ZZ

Summary Statistics

Grand Means

1,121.29 psi

1,063.36 psi

Std Dev Btwn Labs

72.04 psi

82.87 psi

Statistics based on 39 of 42 reporting participants

Summary Statistics in SI Units

Grand Means

7.7309 MPa

7.33 MPa

Std Dev Btwn Labs

0.4967 MPa

0.57 MPa

Statistics based on 39 of 42 reporting participants

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #632

A2RAH5 (X) - Low data for Sample set M71-M72.

E3UAXM (X) - Inconsistency in testing between Sample sets.

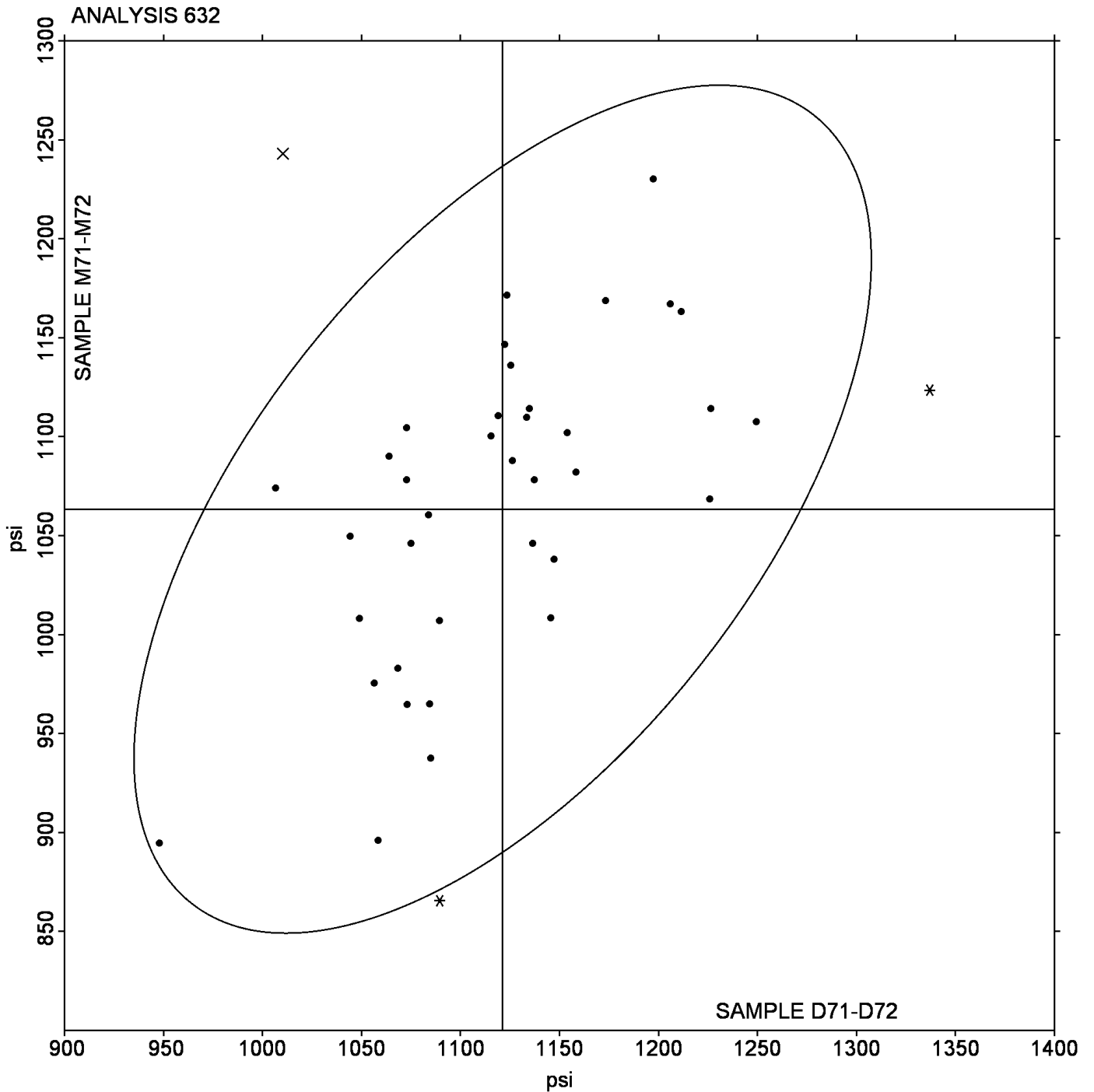
X5C6M2 (X) - High data for Sample set D71-D72.

Analysis 632

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

Grand Mean Sample D71-D72 = 1,121.29 psi

Grand Mean Sample M71-M72 = 1,063.36 psi



Analysis 633

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

WebCode	Data Flag	Sample D71-D72			Sample M71-M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1QWESF	X	239.5	0.5	0.04	151.5	-80.5	-3.71	ZZ
3GBJWA	X	309.0	70.0	5.56	310.5	78.5	3.62	ZZ
3HPUEU		255.4	16.4	1.30	260.1	28.0	1.29	ZZ
3N199X		223.8	-15.2	-1.21	204.7	-27.4	-1.26	ZZ
3S78FB	*	271.9	33.0	2.62	244.4	12.4	0.57	ZZ
5PFUSZ		257.5	18.5	1.47	267.0	35.0	1.61	ZZ
5SS1N7		231.0	-8.0	-0.63	249.0	17.0	0.78	ZZ
5X26HT		231.5	-7.5	-0.59	199.0	-33.0	-1.52	ZZ
6FCALW		247.0	8.0	0.64	236.5	4.5	0.21	ZZ
72S7KJ		235.0	-4.0	-0.32	216.0	-16.0	-0.74	ZZ
7RYMZ7		228.0	-11.0	-0.87	228.0	-4.0	-0.19	ZZ
CPJVXL		235.2	-3.8	-0.30	234.9	2.9	0.13	ZZ
DNDFTC		245.5	6.5	0.52	239.5	7.5	0.34	ZZ
DSV8WL		216.5	-22.5	-1.79	186.0	-46.0	-2.12	ZZ
F7PDFT		255.0	16.0	1.27	255.0	23.0	1.06	ZZ
FPQVAA		253.8	14.8	1.18	252.4	20.3	0.94	ZZ
FWEKUS		231.0	-8.0	-0.63	182.0	-50.0	-2.31	ZZ
GXU71C		226.0	-13.0	-1.03	219.0	-13.0	-0.60	ZZ
KFLBE9		239.0	0.0	0.00	245.5	13.5	0.62	ZZ
KLWPFB		257.0	18.0	1.43	262.0	30.0	1.38	ZZ
L16SJH	*	223.8	-15.2	-1.21	278.0	46.0	2.12	ZZ
LJVWE2		250.5	11.5	0.91	231.5	-0.5	-0.02	ZZ
LT3BL9		243.0	4.0	0.32	253.0	21.0	0.97	ZZ
MJTW3N		252.5	13.5	1.07	237.5	5.5	0.25	ZZ
NF9UMM		234.2	-4.8	-0.38	230.6	-1.4	-0.07	ZZ
PLDDKY		227.0	-12.0	-0.95	211.0	-21.0	-0.97	ZZ
PLDTXC	X	407.1	168.1	13.34	261.2	29.2	1.34	ZZ
PR3A93		244.0	5.0	0.40	216.5	-15.5	-0.72	ZZ
Q2DDJ5		224.2	-14.8	-1.17	243.8	11.8	0.54	ZZ
RWWHZ		232.5	-6.5	-0.52	244.5	12.5	0.57	ZZ
UWB15Q		234.0	-5.0	-0.40	208.5	-23.5	-1.08	ZZ
VGJSVJ		232.6	-6.4	-0.51	210.3	-21.7	-1.00	ZZ
VHQMH		223.0	-16.0	-1.27	225.0	-7.0	-0.32	ZZ
VLXVXZ		249.0	10.0	0.79	213.5	-18.5	-0.85	ZZ
WAE4Z		240.0	1.0	0.08	240.0	8.0	0.37	ZZ

Analysis 633

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

WebCode	Data Flag	Sample D71-D72			Sample M71-M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XCJ9Y3		235.5	-3.5	-0.28	250.5	18.5	0.85	ZZ
Y347YM		262.8	23.8	1.89	232.5	0.5	0.02	ZZ
Z88GTM		232.8	-6.2	-0.49	216.1	-15.9	-0.73	ZZ
Z9L4CL		238.0	-1.0	-0.08	232.5	0.5	0.02	ZZ
ZHSXCF		237.0	-2.0	-0.16	248.0	16.0	0.74	ZZ
ZPCGJW		236.1	-2.9	-0.23	236.0	3.9	0.18	ZZ
ZSGTAA		228.0	-11.0	-0.87	209.0	-23.0	-1.06	ZZ

Summary Statistics			
Grand Means	238.99 psi	232.03 psi	
Std Dev Btwn Labs	12.60 psi	21.70 psi	
Statistics based on 39 of 42 reporting participants			

Summary Statistics in SI Units			
Grand Means	1.6478 MPa	1.60 MPa	
Std Dev Btwn Labs	0.0869 MPa	0.15 MPa	
Statistics based on 39 of 42 reporting participants			

All samples : Polyisoprene compound, batch #1

Comments on assigned Data Flags for Test #633

1QWESF (X) - Low data for Sample set M71-M72.

3GBJWA (X) - Data for all Samples are high.

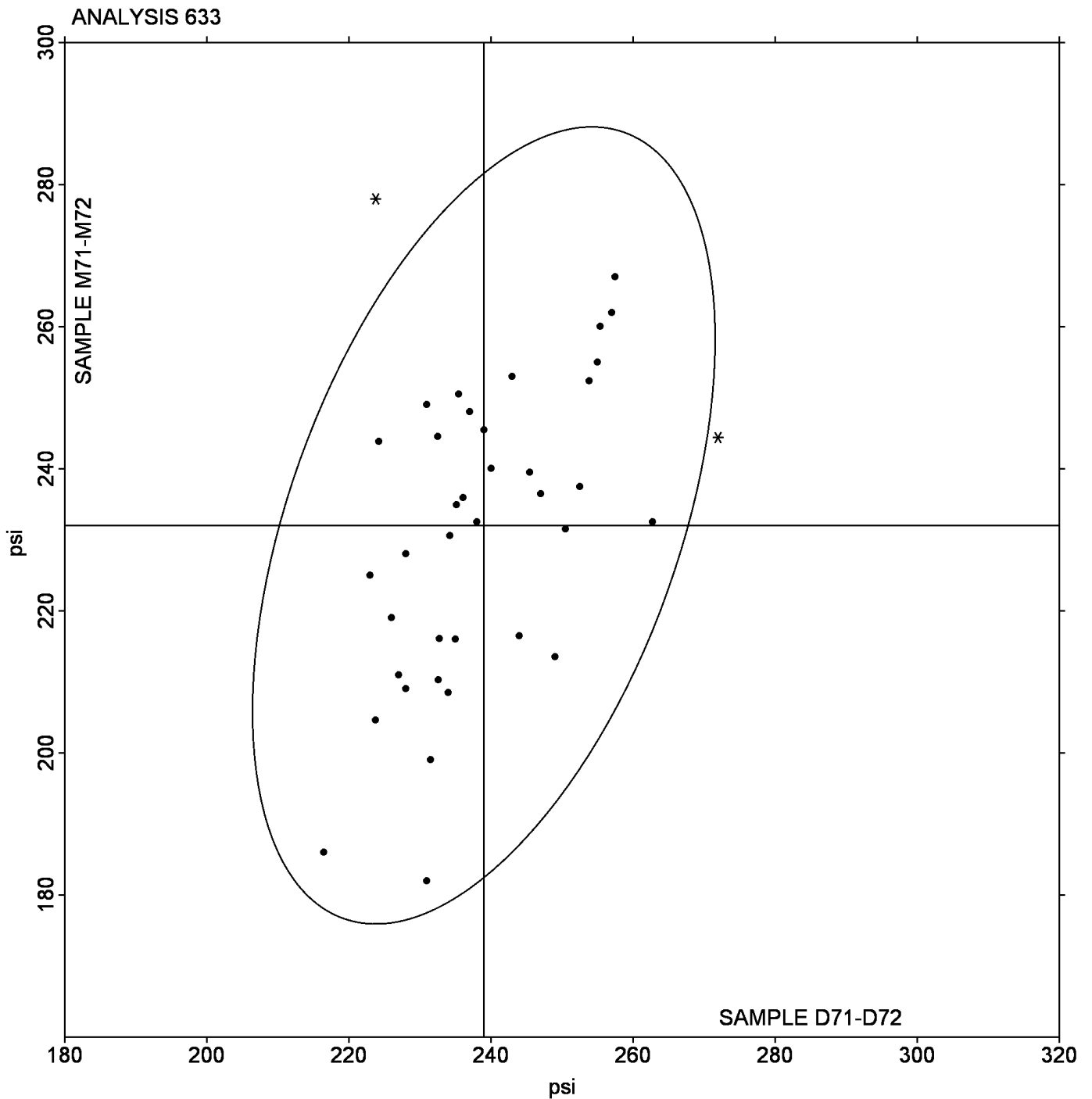
PLDTXC (X) - High data for Sample set D71-D72.

Analysis 633

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

Grand Mean Sample D71-D72 = 238.99 psi

Grand Mean Sample M71-M72 = 232.03 psi



Rubber Interlaboratory Testing Program

Analysis 660

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

WebCode	Data Flag	Sample V71-V72			Sample V73-V74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2KRDPV		82.98	-1.67	-1.20	45.58	-0.90	-1.02	MR
2M8HHF		82.10	-2.56	-1.83	46.10	-0.38	-0.43	TV
44RBNF		83.35	-1.31	-0.93	46.55	0.07	0.08	MR
4ZAE8L		85.33	0.68	0.49	46.32	-0.16	-0.19	MR
5UUHP3		85.35	0.69	0.50	45.50	-0.98	-1.11	MR
63T6QS		87.30	2.64	1.89	47.42	0.94	1.06	MR
66PCYX		85.32	0.66	0.47	47.97	1.49	1.69	MM
67TGLS		83.32	-1.33	-0.95	45.72	-0.76	-0.87	MR
732KFM		83.38	-1.27	-0.91	45.18	-1.30	-1.47	MM
7EMVBJ		84.15	-0.51	-0.36	46.17	-0.31	-0.36	MR
7MTTDG		85.42	0.76	0.54	46.12	-0.36	-0.41	MR
8LKAER		83.72	-0.94	-0.67	46.68	0.20	0.23	MR
8RYFGX		82.85	-1.81	-1.29	45.93	-0.55	-0.62	MR
9C3S8S		84.37	-0.28	-0.20	45.48	-1.00	-1.13	MR
A8ZB2N		85.86	1.21	0.86	47.16	0.68	0.77	TV
AFRPL1		84.52	-0.14	-0.10	47.02	0.54	0.61	MR
BMW6	*	88.31	3.65	2.61	49.00	2.51	2.86	TV
CEG1U1		84.65	-0.01	0.00	46.28	-0.20	-0.22	MR
CKLX87		83.77	-0.89	-0.64	46.87	0.39	0.44	MZ
CP94L3		82.58	-2.07	-1.48	45.15	-1.33	-1.51	MR
D3JWC8		84.53	-0.12	-0.09	47.53	1.05	1.20	MR
EM3WJ7		83.10	-1.56	-1.11	45.78	-0.70	-0.79	TV
GRSJF7		85.90	1.24	0.89	46.73	0.25	0.28	MP
JJZP56		84.17	-0.48	-0.35	45.20	-1.28	-1.46	MR
KG1KJ4		83.77	-0.89	-0.64	47.42	0.94	1.06	MP
KTGSQA		84.12	-0.54	-0.39	46.93	0.45	0.52	MR
KX6GMH		83.57	-1.09	-0.78	46.25	-0.23	-0.26	MR
M9TKAL		85.53	0.88	0.63	46.58	0.10	0.12	MR
MPMG43		86.72	2.06	1.47	47.82	1.34	1.52	MR
MW4D6B		84.75	0.09	0.07	45.55	-0.93	-1.06	MR
NLLJN9	*	85.65	0.99	0.71	44.93	-1.55	-1.76	MR
NZER5C		84.15	-0.51	-0.36	47.87	1.39	1.58	MR
PDV8AL		86.63	1.98	1.42	47.37	0.89	1.01	ML
QW9DJ2		82.67	-1.99	-1.42	45.50	-0.98	-1.11	MR
S4SAUU		85.33	0.68	0.49	46.70	0.22	0.25	MR

Analysis 660

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

WebCode	Data Flag	Sample V71-V72			Sample V73-V74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
S52MPX		85.50	0.84	0.60	46.15	-0.33	-0.38	MR
TUBGW		87.27	2.61	1.87	47.27	0.79	0.89	MM
VEW4JJ		84.65	-0.01	0.00	46.78	0.30	0.34	MR
XHKWM		85.40	0.74	0.53	47.02	0.54	0.61	MR
Y8TX8P	X	88.13	3.48	2.49	50.93	4.45	5.06	XX
YK4C7G		85.42	0.76	0.54	46.18	-0.30	-0.34	MR
Z9N67E		83.88	-0.77	-0.55	46.48	0.00	0.00	MR
ZCSFG2		83.03	-1.62	-1.16	46.38	-0.10	-0.11	MR
ZUBSUN		85.82	1.16	0.83	46.03	-0.45	-0.51	MR

Summary Statistics

Grand Means

84.655 ML 1 + 4

46.480 ML 1 + 4

Std Dev Btw Labs

1.398 ML 1 + 4

0.880 ML 1 + 4

Statistics based on 43 of 44 reporting participants

Samples V71-V72: NBR & V73-V74: Butyl

Comments on assigned Data Flags for Test #660

Y8TX8P (X) - High data for Sample set V73-V74.

Instrument Code Listing

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

Instruments:

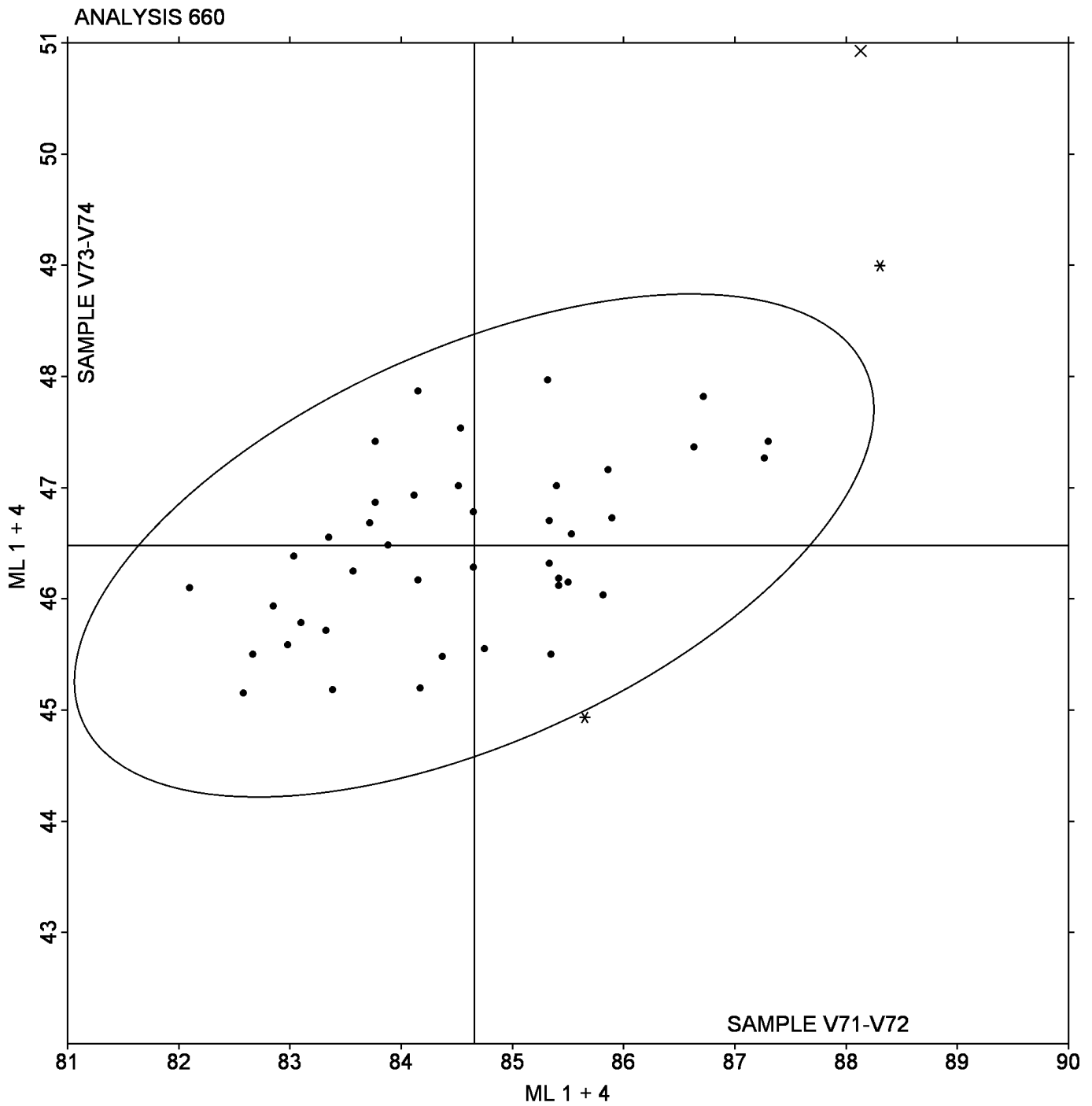
- | | |
|--|--|
| (ML) Alpha Technologies/Monsanto model not specified | (MM) Alpha Technologies Model 1xxx or OSM |
| (MP) Monsanto Compact Mooney Viscometer | (MR) Alpha Technologies Model MV2000/MV2000E |
| (MZ) Rebuilt Monsanto Mooney Viscometer | (SF) Scott STI (any model) |
| (TV) Tech Pro Visc 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 V71-V72 = 84.655 ML 1 + 4

Grand Mean Sample V73-V74 = 46.480 ML 1 + 4



Analysis 661

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

WebCode	Data Flag	Sample V71-V72			Sample V73-V74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1AT94A		86.63	2.05	1.61	45.32	0.61	0.83	XX
1C8L5D		84.65	0.06	0.05	45.15	0.44	0.60	MR
3UQZ5N		85.50	0.91	0.72	45.17	0.46	0.62	MR
5QS9UK		84.17	-0.42	-0.33	43.49	-1.22	-1.65	MR
629Y2Q		82.85	-1.74	-1.37	44.50	-0.21	-0.28	MR
68T3S5		84.52	-0.07	-0.06	45.05	0.34	0.46	MR
6J9HQL		87.27	2.68	2.11	44.75	0.04	0.06	MM
77VAFJ		86.72	2.13	1.68	46.18	1.48	2.00	MR
7DCTQK		84.15	-0.44	-0.34	44.53	-0.17	-0.23	MR
7USHUL		83.38	-1.20	-0.95	43.92	-0.79	-1.07	MM
9BJZ58		82.10	-2.49	-1.96	43.97	-0.74	-1.00	TV
9UMLYF		85.42	0.83	0.65	44.32	-0.39	-0.53	MR
BE2EMK		85.65	1.06	0.84	43.63	-1.07	-1.45	MR
BJXLAH	X	88.31	3.72	2.93	47.41	2.70	3.65	TV
CNZ68L		82.98	-1.60	-1.26	44.00	-0.71	-0.96	MR
DFQZJN		84.37	-0.21	-0.17	44.28	-0.42	-0.57	MR
DRQ3VQ		85.32	0.73	0.57	43.85	-0.86	-1.16	MM
DX9VTQ		83.57	-1.02	-0.80	45.05	0.34	0.46	MR
E9WYGS		85.53	0.95	0.75	45.03	0.33	0.44	MR
EJ3LN7		83.10	-1.49	-1.17	43.57	-1.14	-1.54	TV
HNDMS2		83.35	-1.24	-0.97	44.75	0.04	0.06	MR
LFFRWT		83.88	-0.70	-0.55	44.97	0.26	0.35	MR
N1P6LB	*	87.30	2.71	2.14	46.78	2.08	2.81	MR
NE2J4Q		84.65	0.06	0.05	45.08	0.38	0.51	MR
NK5FHW		83.77	-0.82	-0.65	44.68	-0.02	-0.03	MZ
NVA7HB		83.77	-0.82	-0.65	45.03	0.33	0.44	MP
NY23KC		83.72	-0.87	-0.69	44.98	0.28	0.37	MR
QSHLU1		85.33	0.75	0.59	45.12	0.41	0.55	MR
T5BK3T		85.40	0.81	0.64	44.32	-0.39	-0.53	MR
TB7RDM		85.42	0.83	0.65	44.35	-0.36	-0.48	MR
UFQKAU		85.90	1.31	1.03	44.48	-0.22	-0.30	MM
UG4434		84.75	0.16	0.13	43.95	-0.76	-1.02	MR
VKEG14		84.15	-0.44	-0.34	46.25	1.54	2.09	MR
VWQK91		84.12	-0.47	-0.37	45.53	0.83	1.12	MR
X8G7Z1		85.86	1.27	1.00	45.52	0.81	1.10	TV

Analysis 661

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

WebCode	Data Flag	Sample V71-V72			Sample V73-V74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XG95FU		82.67	-1.92	-1.51	44.08	-0.62	-0.84	MR
XZ9NLB		85.35	0.76	0.60	43.60	-1.11	-1.50	MR
YEM8RM		84.53	-0.05	-0.04	44.85	0.14	0.19	MR
Z3WKW		83.32	-1.26	-1.00	44.43	-0.27	-0.37	MR
Z65M63		83.03	-1.55	-1.22	44.87	0.16	0.22	MR
ZMYAH		85.33	0.75	0.59	44.87	0.16	0.22	MR

Summary Statistics			
Grand Means	84.587	ML 1 + 8	44.706 ML 1 + 8
Std Dev Btwn Labs	1.270	ML 1 + 8	0.739 ML 1 + 8
Statistics based on 40 of 41 reporting participants			

Please refer to the sample information provided for Analysis 660.

Comments on assigned Data Flags for Test #661

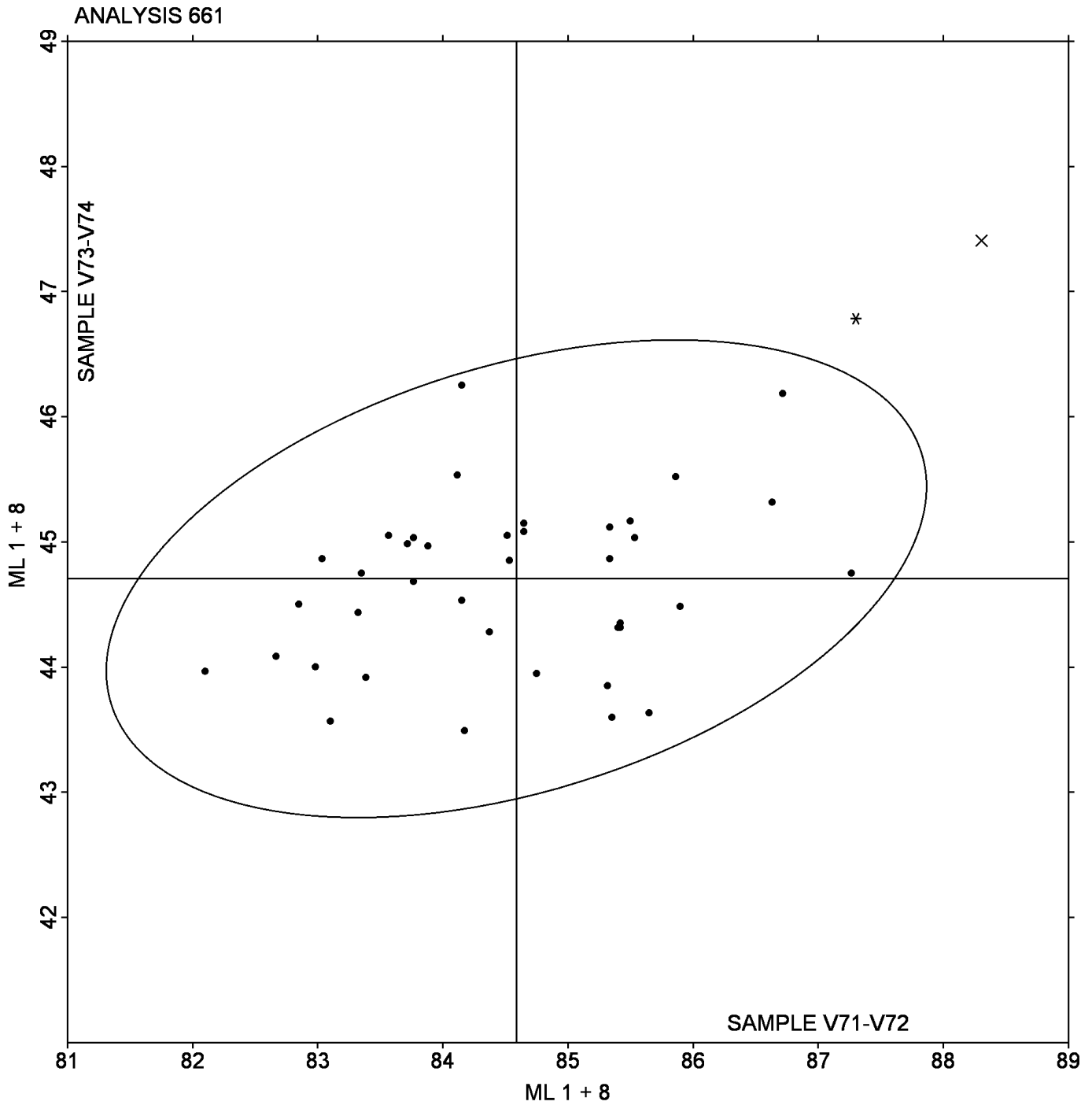
BJXLAH (X) - Data for all Samples are high.

Analysis 661

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

Grand Mean Sample V71-V72 = 84.587 ML 1 + 8

Grand Mean Sample V73-V74 = 44.706 ML 1 + 8



Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Z71-Z72			Sample Z73-Z74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
188A9D		1.675	-0.178	-1.27	2.345	-0.321	-1.23	ZZ
33V4TY		1.738	-0.115	-0.82	2.468	-0.198	-0.76	ZZ
4ASRA3		2.010	0.157	1.12	2.788	0.122	0.47	ZZ
4EFJXC		2.060	0.207	1.47	3.037	0.371	1.42	ZZ
6R76NC		1.942	0.089	0.63	2.753	0.087	0.33	ZZ
A5V94B		1.728	-0.125	-0.89	2.570	-0.096	-0.37	ZZ
ANWLRE		2.063	0.210	1.49	3.247	0.581	2.23	ZZ
AT3T7N		1.867	0.014	0.10	2.692	0.026	0.10	ZZ
BU3FUY	X	1.490	-0.363	-2.58	0.932	-1.734	-6.65	ZZ
DFFNJX		1.583	-0.270	-1.92	2.150	-0.516	-1.98	ZZ
DKE26M		2.017	0.164	1.16	2.838	0.172	0.66	ZZ
F345S6		1.935	0.082	0.58	2.850	0.184	0.71	ZZ
J243Z7		1.882	0.029	0.20	2.770	0.104	0.40	ZZ
NU3SPC		1.915	0.062	0.44	2.685	0.019	0.07	ZZ
Q7SZMA		1.712	-0.141	-1.00	2.552	-0.114	-0.44	ZZ
Q8M62P	X	38.198	36.345	258.25	33.080	30.414	116.68	ZZ
S1KL76		1.847	-0.006	-0.05	2.793	0.127	0.49	ZZ
SREMNX		1.730	-0.123	-0.87	2.430	-0.236	-0.90	ZZ
V4C1QJ		1.758	-0.095	-0.67	2.385	-0.281	-1.08	ZZ
WPYBU		1.893	0.040	0.29	2.635	-0.031	-0.12	ZZ

Summary Statistics	
Grand Means	
1.8531 minutes	2.6660 minutes
Std Dev Btwn Labs	
0.1407 minutes	0.2607 minutes
Statistics based on 18 of 20 reporting participants	

Samples Z71-Z72: EPDM compound #1 & Z73-Z74: EPDM compound #2

Comments on assigned Data Flags for Test #669

BU3FUY (X) - Data for all Samples are low.

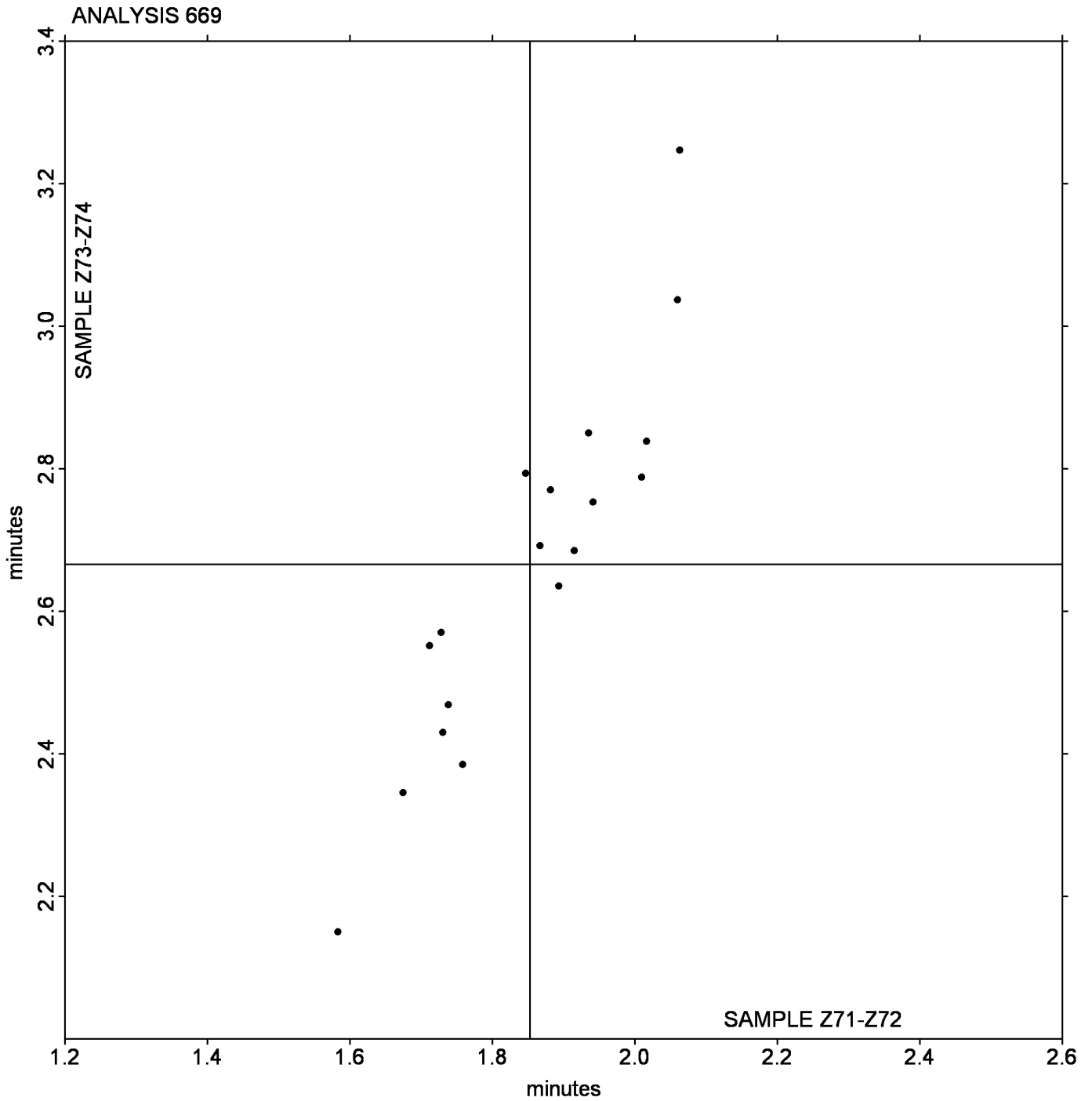
Q8M62P (X) - Extreme data for both Sample sets.

Analysis 669

ODR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample Z71-Z72 = 1.8531 minutes

Grand Mean Sample Z73-Z74 = 2.6660 minutes



Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Z71-Z72			Sample Z73-Z74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1AVYLD		1.287	-0.100	-0.68	1.808	-0.176	-0.61	ZZ
1J9KUH		1.468	0.082	0.56	2.037	0.053	0.18	ZZ
2K4646		1.248	-0.138	-0.94	1.620	-0.364	-1.27	ZZ
33TCQW		1.400	0.014	0.09	2.237	0.253	0.88	ZZ
4W2MG6		1.488	0.102	0.70	2.035	0.051	0.18	ZZ
9TX9E1		1.125	-0.261	-1.79	1.460	-0.524	-1.82	ZZ
ADLK5D	*	1.770	0.384	2.62	2.935	0.951	3.31	ZZ
DCPEPG		1.443	0.057	0.39	1.952	-0.032	-0.11	ZZ
E5T9VL		1.587	0.200	1.37	2.122	0.138	0.48	ZZ
FE665B		1.448	0.062	0.42	1.975	-0.009	-0.03	ZZ
FK13SG		1.475	0.089	0.61	2.022	0.038	0.13	ZZ
FU59M9		1.363	-0.023	-0.16	1.852	-0.132	-0.46	ZZ
HFSTDG		1.367	-0.020	-0.13	2.140	0.156	0.54	ZZ
M2TAX1		1.247	-0.140	-0.96	2.010	0.026	0.09	ZZ
M8AUPU		1.517	0.130	0.89	2.157	0.173	0.60	ZZ
MZ5YW		1.275	-0.111	-0.76	1.817	-0.167	-0.58	ZZ
ND6A52		1.278	-0.108	-0.74	1.840	-0.144	-0.50	ZZ
PZFGUC		1.422	0.035	0.24	2.187	0.203	0.71	ZZ
SKY91C		1.310	-0.076	-0.52	1.630	-0.354	-1.23	ZZ
WV1XRH		1.202	-0.185	-1.26	1.638	-0.346	-1.20	ZZ
X5YKAE		1.393	0.007	0.05	2.068	0.084	0.29	ZZ
X8MVK6		1.603	0.217	1.48	2.195	0.211	0.73	ZZ
XVYHZ4		1.300	-0.086	-0.59	1.958	-0.026	-0.09	ZZ
XX3G84		1.255	-0.131	-0.90	1.922	-0.062	-0.22	ZZ

Summary Statistics			
Grand Means	1.3863 minutes	1.9840 minutes	
Std Dev Btwn Labs	0.1462 minutes	0.2871 minutes	
Statistics based on 24 of 24 reporting participants			

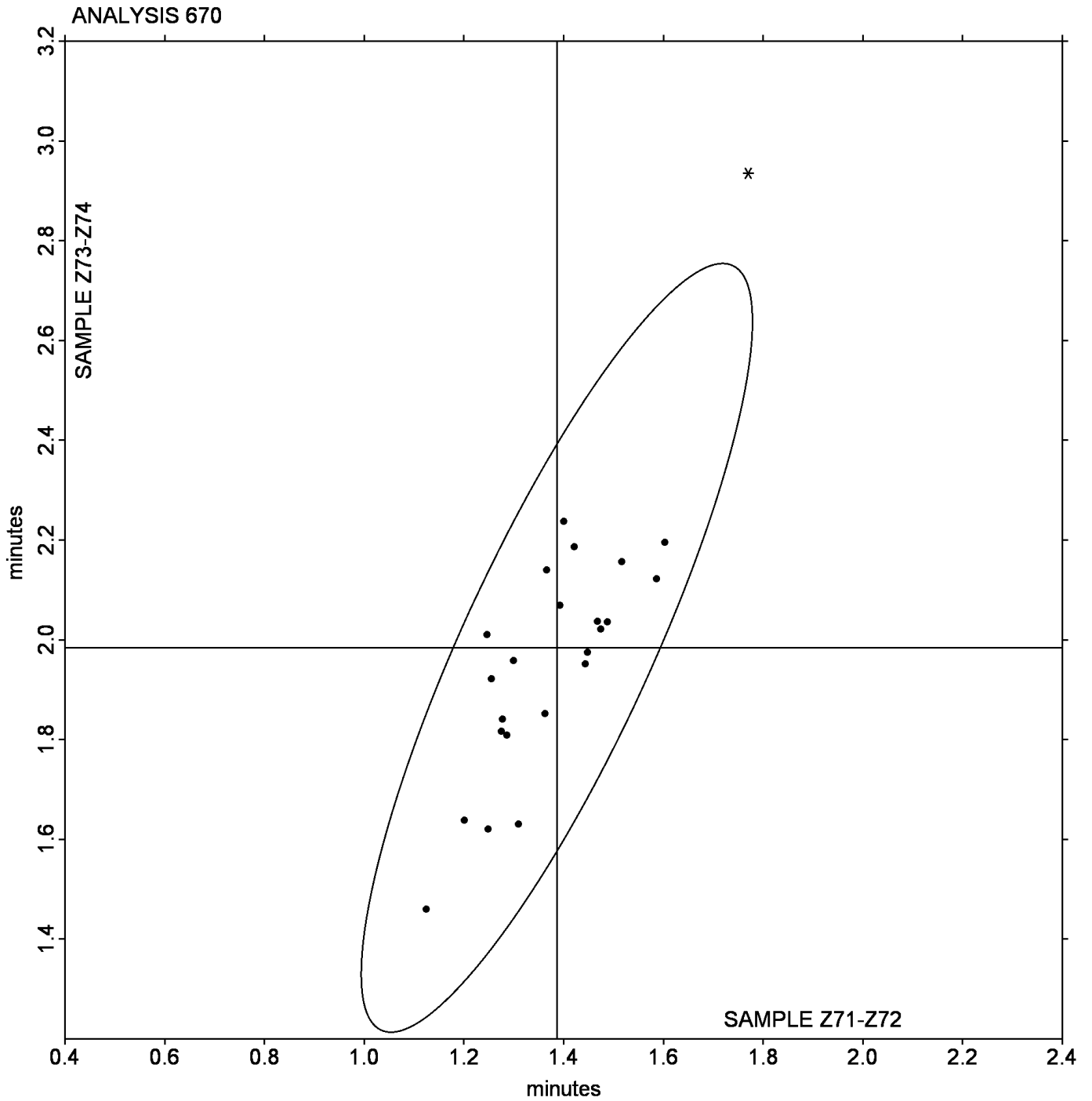
Samples Z71-Z72: EPDM compound #1 & Z73-Z74: EPDM compound #2

Analysis 670

ODR Vulcanization-Scorch Time, Ts1 (minutes)

Grand Mean Sample Z71-Z72 = 1.3863 minutes

Grand Mean Sample Z73-Z74 = 1.9840 minutes



Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Z71-Z72			Sample Z73-Z74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2JAHJP		3.350	-0.045	-0.24	5.015	-0.214	-0.67	ZZ
2YBEA9		3.332	-0.063	-0.33	5.125	-0.104	-0.33	ZZ
4T2BK6		3.583	0.189	1.00	5.665	0.436	1.36	ZZ
6NPHYR		3.408	0.014	0.07	5.258	0.029	0.09	ZZ
8QAMJG		3.205	-0.189	-1.00	4.791	-0.438	-1.37	ZZ
8SXYK7		3.122	-0.273	-1.45	4.833	-0.396	-1.24	ZZ
8X7AJT		3.148	-0.246	-1.31	4.723	-0.506	-1.58	ZZ
BLJBD8		3.517	0.122	0.65	5.517	0.287	0.90	ZZ
E5H6K8		3.302	-0.093	-0.49	5.047	-0.183	-0.57	ZZ
EMJJ6A		3.557	0.162	0.86	5.472	0.242	0.76	ZZ
EN9F4W		3.030	-0.365	-1.93	4.712	-0.518	-1.61	ZZ
HKQAQB	X	3.930	0.535	2.84	5.565	0.336	1.05	ZZ
HSQXVC		3.255	-0.140	-0.74	5.102	-0.128	-0.40	ZZ
J5Q9CV		3.222	-0.173	-0.92	4.992	-0.238	-0.74	ZZ
J8FG6G		3.562	0.167	0.89	5.452	0.222	0.69	ZZ
K2513F		3.487	0.092	0.49	5.297	0.067	0.21	ZZ
KXKC7G		3.162	-0.233	-1.24	4.943	-0.286	-0.89	ZZ
LWNPGD		3.422	0.027	0.14	5.293	0.064	0.20	ZZ
MB2N7H		3.322	-0.073	-0.39	5.282	0.052	0.16	ZZ
MVVED9		3.478	0.084	0.44	5.167	-0.063	-0.20	ZZ
PWG6YC		3.502	0.107	0.57	5.420	0.191	0.60	ZZ
S5TL2P		3.802	0.407	2.16	6.017	0.787	2.46	ZZ
UDRJR V		3.548	0.154	0.82	5.563	0.334	1.04	ZZ
UWHVY		3.560	0.165	0.88	5.502	0.272	0.85	ZZ
X7VULA	X	4.132	0.737	3.91	5.375	0.146	0.45	ZZ
YQCRZD		3.595	0.200	1.06	5.315	0.086	0.27	ZZ

Summary Statistics	
Grand Means	3.3945 minutes 5.2292 minutes
Std Dev Btwn Labs	0.1885 minutes 0.3206 minutes
Statistics based on 24 of 26 reporting participants	

Samples Z71-Z72: EPDM compound #1 & Z73-Z74: EPDM compound #2

Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

Comments on assigned Data Flags for Test #671

HKQAQB (X) - High data for Sample set Z71-Z72.

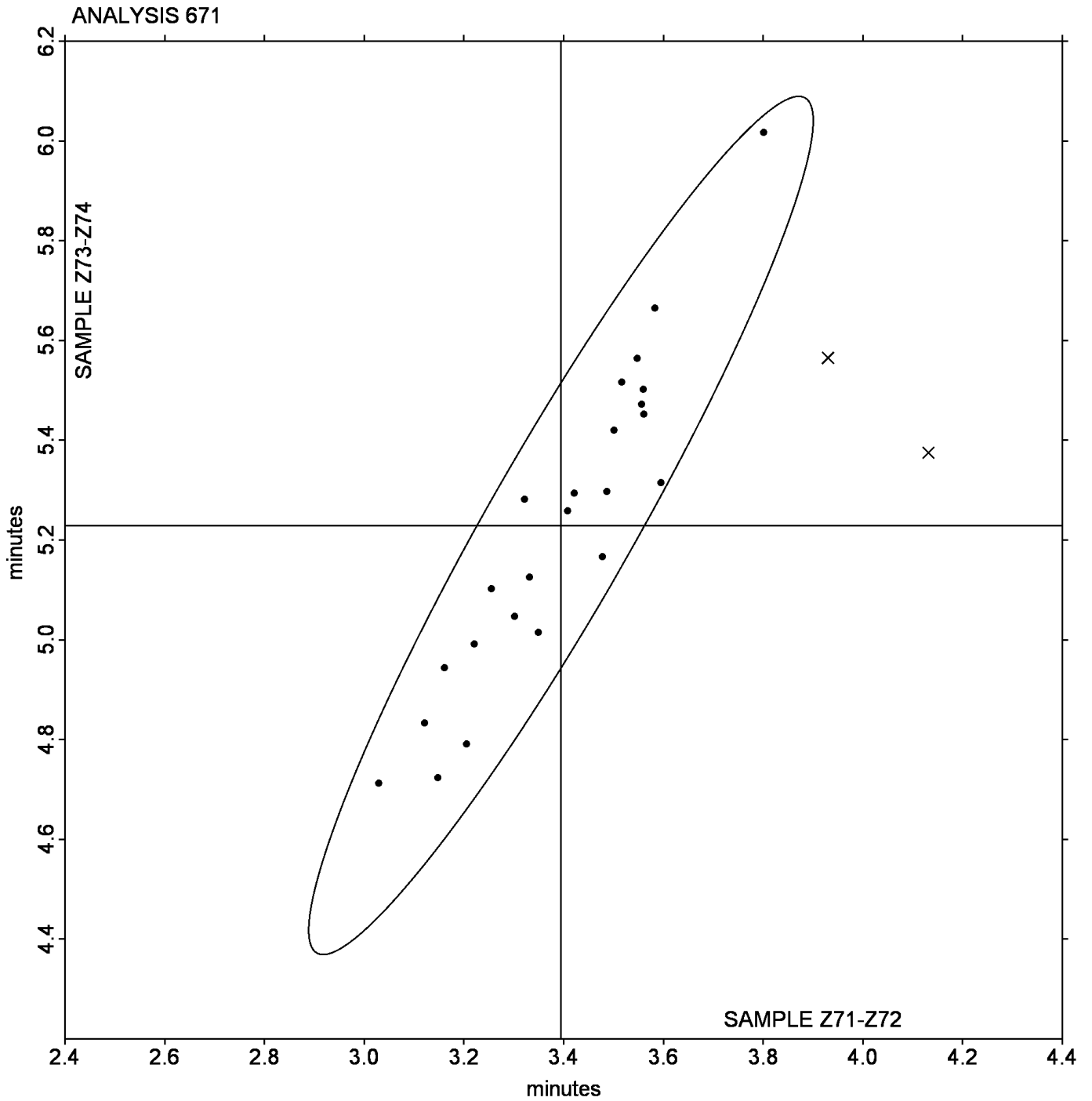
X7VULA (X) - High data for Sample set Z71-Z72.

Analysis 671

ODR Vulcanization-Cure Time 50% (minutes)

Grand Mean Sample Z71-Z72 = 3.3945 minutes

Grand Mean Sample Z73-Z74 = 5.2292 minutes



Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Z71-Z72			Sample Z73-Z74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1VNU6E		12.77	-0.36	-0.42	8.523	-0.961	-1.17	ZZ
3F1D5M		15.30	2.16	2.51	11.027	1.542	1.88	ZZ
4UYZA9		13.23	0.09	0.11	9.528	0.044	0.05	ZZ
5MDGCS		12.87	-0.27	-0.31	9.467	-0.018	-0.02	ZZ
94TVEZ	X	18.26	5.12	5.95	11.718	2.234	2.72	ZZ
9WLLFS		12.63	-0.50	-0.59	9.557	0.072	0.09	ZZ
BNE6CH		14.18	1.04	1.21	9.618	0.134	0.16	ZZ
D474Y9		13.10	-0.04	-0.05	9.717	0.232	0.28	ZZ
EQNRD		12.82	-0.32	-0.37	8.493	-0.991	-1.21	ZZ
H9Q18N		11.24	-1.90	-2.21	8.963	-0.521	-0.63	ZZ
HCCB5C		12.86	-0.28	-0.32	8.940	-0.545	-0.66	ZZ
HQFK19		11.94	-1.19	-1.39	7.975	-1.510	-1.84	ZZ
HVJK4K		12.62	-0.52	-0.60	9.607	0.122	0.15	ZZ
J1NCLF		14.09	0.95	1.10	10.237	0.752	0.91	ZZ
K7TDUA		12.78	-0.35	-0.41	9.038	-0.446	-0.54	ZZ
KUS636		13.10	-0.04	-0.05	9.497	0.012	0.01	ZZ
LDC8HC		13.32	0.18	0.21	9.587	0.102	0.12	ZZ
P5S9DB		13.23	0.09	0.11	9.892	0.407	0.50	ZZ
PL9HTT		12.88	-0.26	-0.30	10.662	1.177	1.43	ZZ
RR2LAA		12.54	-0.60	-0.69	8.578	-0.906	-1.10	ZZ
SDU7KX		14.07	0.93	1.08	8.755	-0.730	-0.89	ZZ
TEDN5Q		11.78	-1.36	-1.58	10.058	0.574	0.70	ZZ
VUFGLG		13.42	0.28	0.33	8.852	-0.633	-0.77	ZZ
WEAFQ7		13.70	0.56	0.65	11.287	1.802	2.19	ZZ
WL5FZF		13.88	0.75	0.87	8.830	-0.655	-0.80	ZZ
XS5QRD		14.08	0.95	1.10	10.433	0.949	1.15	ZZ

Summary Statistics	
Grand Means	13.137 minutes
	9.4848 minutes
Std Dev Btwn Labs	0.860 minutes
	0.8219 minutes
Statistics based on 25 of 26 reporting participants	

Samples Z71-Z72: EPDM compound #1 & Z73-Z74: EPDM compound #2

Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

Comments on assigned Data Flags for Test #672

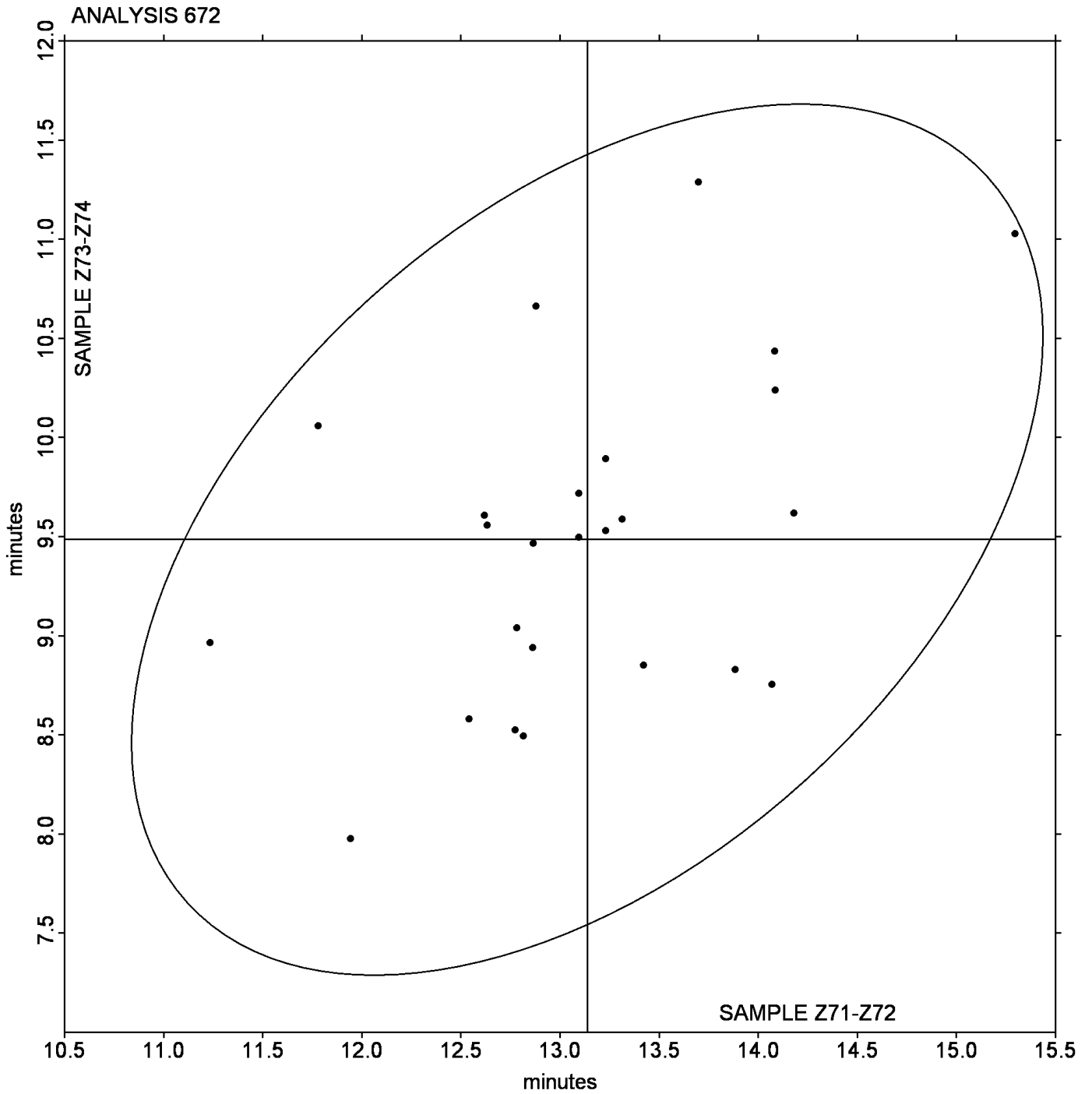
94TVEZ (X) - Data for all Samples are high.

Analysis 672

ODR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Z71-Z72 = 13.137 minutes

Grand Mean Sample Z73-Z74 = 9.4848 minutes



Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Z71-Z72			Sample Z73-Z74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
17YT6T		6.117	-0.502	-0.58	9.033	-0.813	-0.46	ZZ
1UCTKF		6.128	-0.491	-0.57	8.362	-1.484	-0.84	ZZ
22ZRBZ		6.742	0.123	0.14	8.850	-0.996	-0.56	ZZ
3VAE5A		6.075	-0.544	-0.63	10.362	0.516	0.29	ZZ
4ZK27D		6.773	0.154	0.18	9.253	-0.593	-0.34	ZZ
5UB6TW		6.353	-0.266	-0.31	10.117	0.271	0.15	ZZ
75T74P		5.970	-0.649	-0.75	7.987	-1.859	-1.05	ZZ
CCPYYL		6.550	-0.069	-0.08	9.338	-0.508	-0.29	ZZ
DDFNPK		6.547	-0.072	-0.08	8.947	-0.899	-0.51	ZZ
DQ6YZR		6.868	0.249	0.29	9.043	-0.803	-0.45	ZZ
E86RHQ		5.622	-0.997	-1.15	7.632	-2.214	-1.25	ZZ
E8DYEX		7.708	1.089	1.26	9.857	0.011	0.01	ZZ
JG5HE8		6.408	-0.211	-0.24	7.927	-1.919	-1.08	ZZ
LBJ2YV	*	9.010	2.391	2.76	10.772	0.926	0.52	ZZ
LRXBFQ		7.413	0.794	0.92	12.585	2.739	1.55	ZZ
LUJLK2		7.573	0.954	1.10	13.642	3.796	2.15	ZZ
MF6DR4		5.747	-0.872	-1.01	7.863	-1.983	-1.12	ZZ
N74P8C		6.777	0.158	0.18	13.137	3.291	1.86	ZZ
QFW3FM		8.425	1.806	2.09	10.917	1.071	0.61	ZZ
QSVLP2		6.085	-0.534	-0.62	10.993	1.147	0.65	ZZ
QV3ADC		6.927	0.308	0.36	11.407	1.561	0.88	ZZ
QWALX9		6.467	-0.152	-0.18	12.208	2.362	1.34	ZZ
SJDB8S		5.412	-1.207	-1.39	7.058	-2.788	-1.58	ZZ
SSCFFF	X	11.370	4.751	5.49	15.217	5.371	3.04	ZZ
UY7E9W		6.170	-0.449	-0.52	10.015	0.169	0.10	ZZ
ZKA61W		5.610	-1.009	-1.17	8.847	-0.999	-0.56	ZZ

Grand Means		Summary Statistics	
	6.6190 lbf.in		9.8460 lbf.in
Std Dev Btw Labs	0.8661 lbf.in		1.7690 lbf.in
Statistics based on 25 of 26 reporting participants			

Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

		Summary Statistics in SI Units	
Grand Means	7.4785 dN.m	11.1244	dN.m
Std Dev Btwn Labs	0.9786 dN.m	1.9987	dN.m
Statistics based on 25 of 26 reporting participants			

Samples Z71-Z72: EPDM compound #1 & Z73-Z74: EPDM compound #2

Comments on assigned Data Flags for Test #673

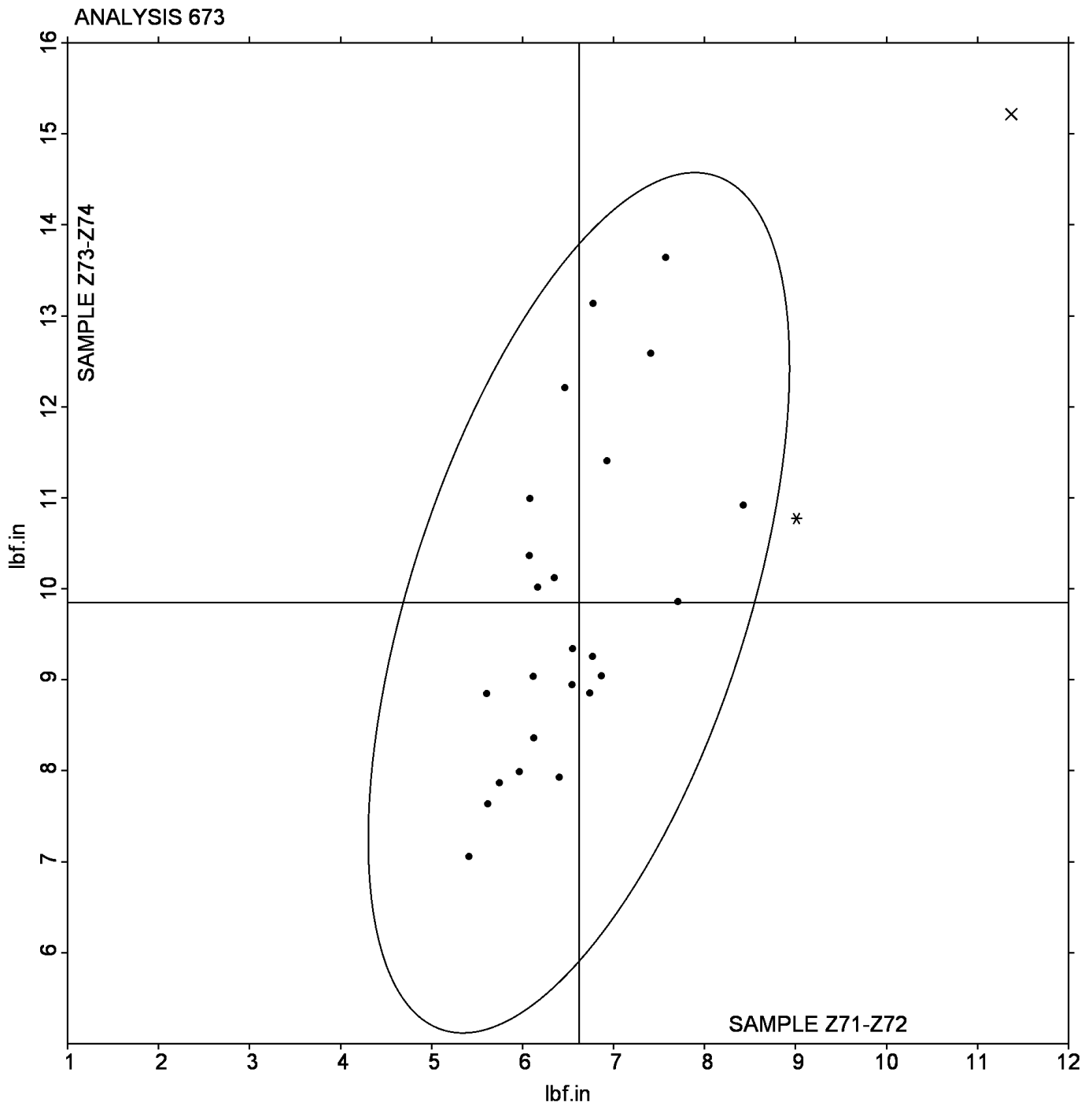
SSCFFF (X) - Data for all Samples are high.

Analysis 673

ODR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Z71-Z72 = 6.6190 lbf.in

Grand Mean Sample Z73-Z74 = 9.8460 lbf.in



Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Z71-Z72			Sample Z73-Z74			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2NXV1Y		35.58	-1.89	-0.76	32.25	0.15	0.08	ZZ
3JNTY3		38.20	0.73	0.29	33.08	0.99	0.51	ZZ
4EGWG7		37.54	0.07	0.03	33.33	1.23	0.64	ZZ
4X1411		36.97	-0.50	-0.20	31.12	-0.97	-0.50	ZZ
7JPA69		40.60	3.13	1.26	33.36	1.27	0.65	ZZ
7LQWFJ		39.21	1.74	0.70	33.90	1.81	0.93	ZZ
86S3B4		40.45	2.98	1.20	35.04	2.95	1.52	ZZ
8UZGJF		40.03	2.56	1.03	34.64	2.55	1.31	ZZ
8X9ASM		39.30	1.83	0.74	31.35	-0.74	-0.38	ZZ
CBX6VF		35.44	-2.03	-0.82	29.81	-2.28	-1.17	ZZ
EQXS6M		35.27	-2.20	-0.88	32.60	0.51	0.26	ZZ
FRNC9X		42.17	4.70	1.89	35.17	3.08	1.59	ZZ
MV7GKF		34.81	-2.65	-1.07	29.49	-2.60	-1.34	ZZ
P1V9ZV		32.65	-4.82	-1.94	28.20	-3.90	-2.00	ZZ
P2CS57		36.67	-0.80	-0.32	30.83	-1.26	-0.65	ZZ
QRP5PB		38.21	0.74	0.30	32.90	0.81	0.42	ZZ
RJTL3Z		39.64	2.17	0.87	32.70	0.61	0.31	ZZ
SX2XS6		36.11	-1.36	-0.54	31.87	-0.22	-0.11	ZZ
UDRM5E	X	78.85	41.38	16.63	61.65	29.56	15.21	ZZ
V1QK1J		38.26	0.79	0.32	32.18	0.08	0.04	ZZ
VRQHQ7		38.06	0.59	0.24	31.66	-0.43	-0.22	ZZ
X6STHH		32.20	-5.27	-2.12	27.12	-4.97	-2.56	ZZ
XXY64K		37.47	0.01	0.00	33.46	1.37	0.71	ZZ
Y2UMKS		40.00	2.53	1.02	31.87	-0.22	-0.12	ZZ
ZC6TXY		37.29	-0.18	-0.07	32.50	0.41	0.21	ZZ
ZGAV5W		34.56	-2.90	-1.17	31.87	-0.23	-0.12	ZZ

Summary Statistics	
Grand Means	37.467 lbf.in 32.091 lbf.in
Std Dev Btwn Labs	2.489 lbf.in 1.944 lbf.in
Statistics based on 25 of 26 reporting participants	

Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

		Summary Statistics in SI Units	
Grand Means	42.332 dN.m	36.257	dN.m
Std Dev Btwn Labs	2.812 dN.m	2.196	dN.m
Statistics based on 25 of 26 reporting participants			

Samples Z71-Z72: EPDM compound #1 & Z73-Z74: EPDM compound #2

Comments on assigned Data Flags for Test #674

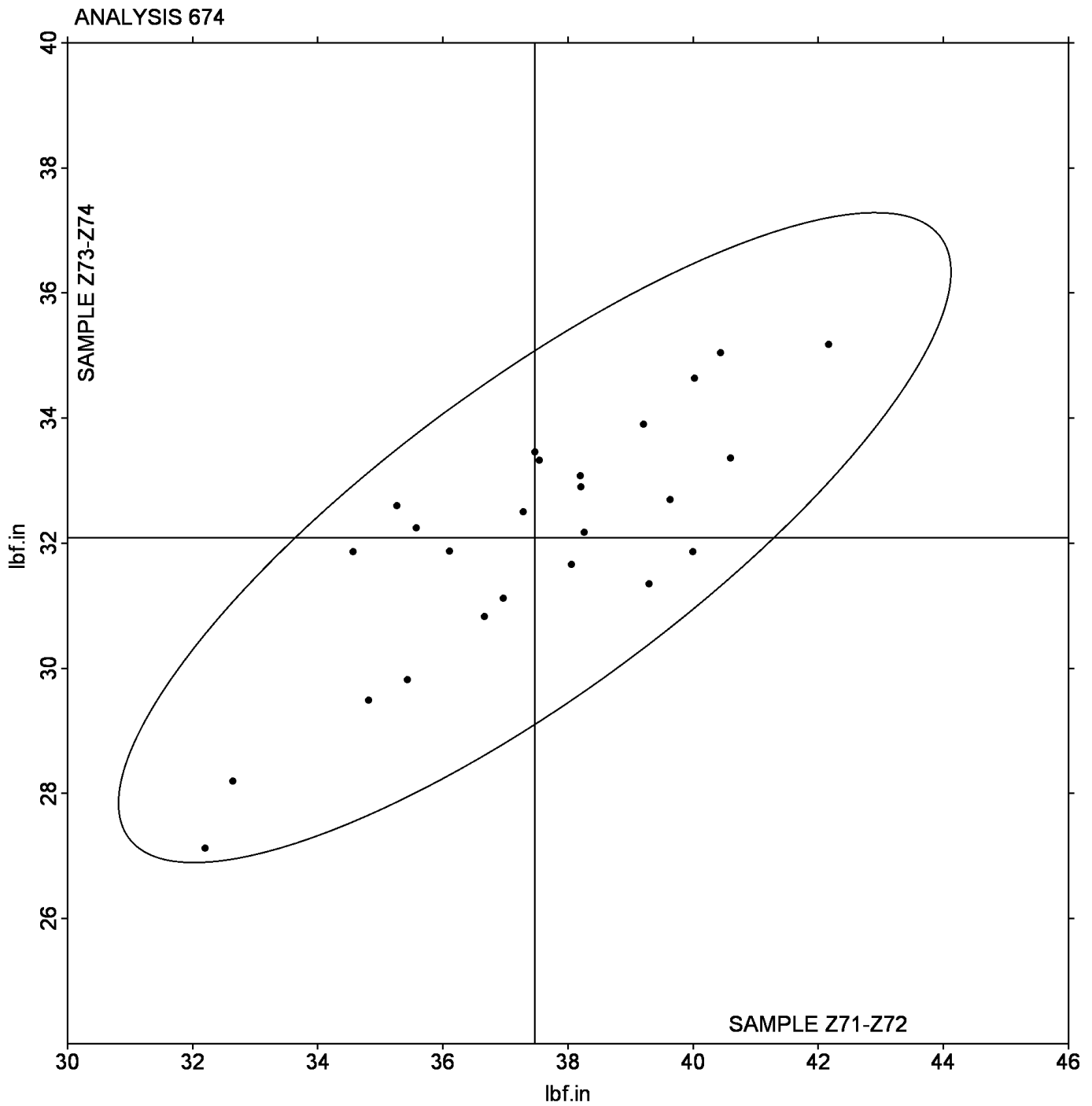
UDRM5E (X) - Data for all Samples are high.

Analysis 674

ODR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Z71-Z72 = 37.467 lbf.in

Grand Mean Sample Z73-Z74 = 32.091 lbf.in



Rubber Interlaboratory Testing Program

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1BW7TJ		1.807	-0.039	-0.64	1.887	-0.023	-0.33	MC
2EDU53		1.865	0.020	0.32	1.893	-0.016	-0.24	MC
2V2GH2	X	14.643	12.798	210.84	14.692	12.782	185.13	MC
3BQH4C		1.803	-0.042	-0.69	1.843	-0.066	-0.96	TP
3FM6HY		1.870	0.025	0.41	1.908	-0.001	-0.02	TP
643Q8V		1.814	-0.031	-0.52	1.883	-0.026	-0.38	MC
67CG54		1.935	0.090	1.48	1.993	0.084	1.21	MC
75P8SM		1.892	0.046	0.76	1.985	0.075	1.09	MD
7R5D2V		1.960	0.115	1.89	2.022	0.112	1.62	MC
A6NUP9		1.692	-0.154	-2.53	1.760	-0.150	-2.17	TP
BA5STW		1.923	0.078	1.28	2.012	0.102	1.48	MC
D4NABD		1.888	0.043	0.71	1.983	0.074	1.07	MC
DQLV1H		1.805	-0.040	-0.67	1.865	-0.045	-0.65	MD
ECVWSZ		1.878	0.033	0.54	1.928	0.019	0.27	MC
G6YQBA		1.853	0.008	0.13	1.918	0.009	0.12	XX
K3CZZP		1.823	-0.022	-0.36	1.833	-0.076	-1.11	MC
KYCU5R		1.753	-0.092	-1.52	1.858	-0.051	-0.74	MP
L2F9KE		1.892	0.046	0.76	1.967	0.057	0.82	MC
NPTUXJ		1.830	-0.015	-0.25	1.905	-0.005	-0.07	MC
P2BBXV		1.833	-0.012	-0.20	1.885	-0.025	-0.36	MC
PKXN9M		1.831	-0.015	-0.24	1.931	0.021	0.30	MC
Q81461		1.778	-0.067	-1.10	1.850	-0.060	-0.87	MC
QP86WL		1.922	0.076	1.26	2.047	0.137	1.98	MC
SRNBDE		1.730	-0.115	-1.90	1.782	-0.128	-1.85	MD
TTJ9LE	X	1.687	-0.159	-2.61	1.645	-0.265	-3.83	MC
TURWU7		1.835	-0.010	-0.17	1.898	-0.011	-0.17	TP
UK555M		1.907	0.061	1.01	1.967	0.057	0.82	MC
V33HM1		1.862	0.016	0.27	1.897	-0.013	-0.19	MC
VRLK9W		1.848	0.003	0.05	1.900	-0.010	-0.14	MD
XRUERF		1.863	0.018	0.30	1.945	0.035	0.51	MC
XVRZT5		1.823	-0.022	-0.36	1.837	-0.073	-1.06	MC

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

		Summary Statistics	
Grand Means	1.8454 minutes		1.9097 minutes
Std Dev Btwn Labs	0.0607 minutes		0.0690 minutes
Statistics based on 29 of 31 reporting participants			

Samples Z75-Z76: EPDM compound, batch #1 & Z77-Z78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #684

2V2GH2 (X) - Extreme data for both Sample sets.

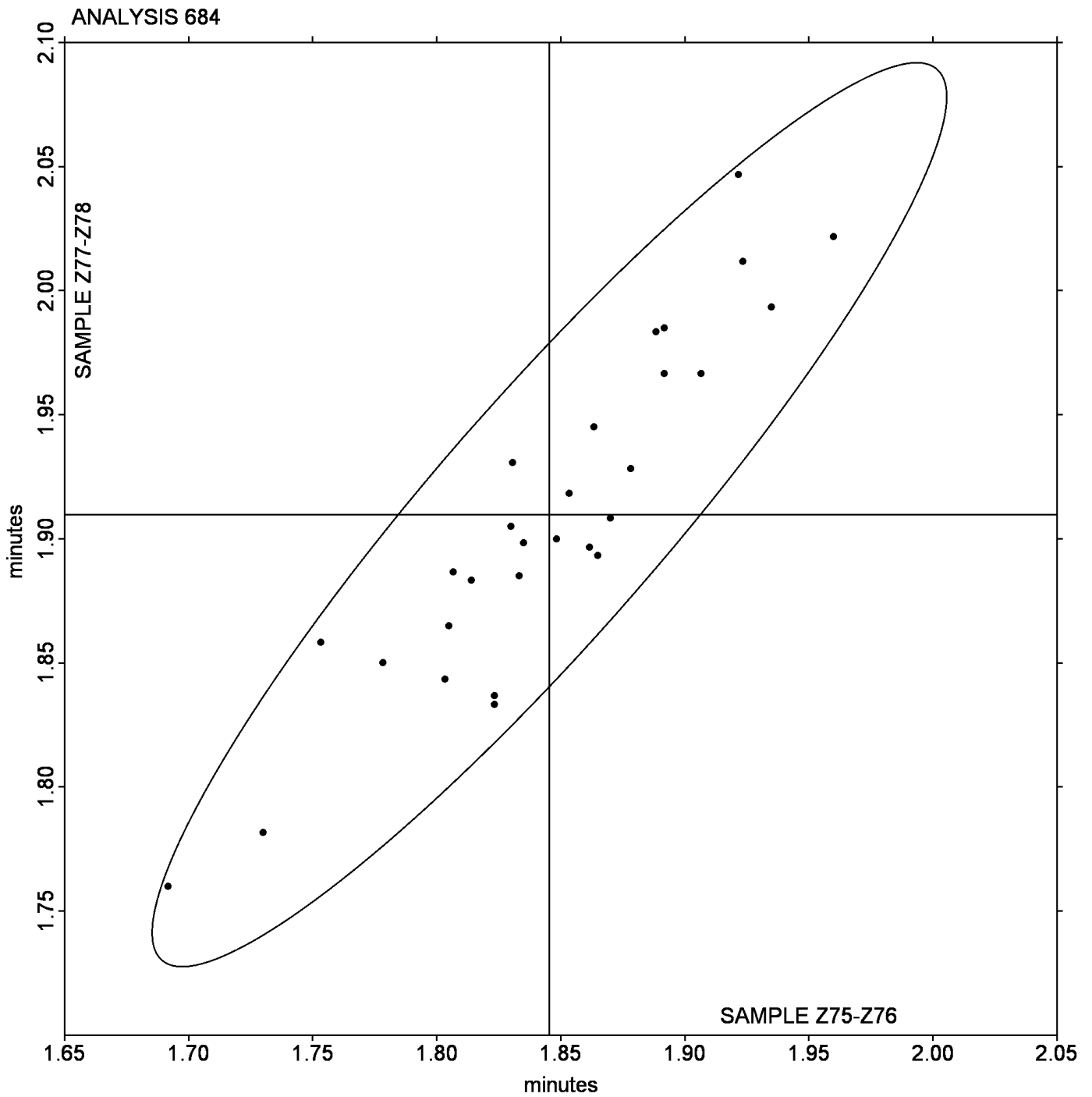
TTJ9LE (X) - Inconsistency in testing between Sample sets. Low data for Sample set Z77-Z78.

Analysis 684

MDR Vulcanization-Cure Time 10% (minutes)

Grand Mean Sample Z75-Z76 = 1.8454 minutes

Grand Mean Sample Z77-Z78 = 1.9097 minutes



Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
239VQP		1.728	0.000	0.00	1.750	0.004	0.04	MC
3YD851		1.743	0.015	0.13	1.735	-0.011	-0.10	MC
442ZLF		1.663	-0.065	-0.58	1.675	-0.071	-0.65	TP
5GGV94		1.640	-0.088	-0.79	1.637	-0.109	-1.00	MD
5Q4WAN		1.655	-0.073	-0.66	1.647	-0.099	-0.91	MC
6UX1AR		1.800	0.072	0.64	1.843	0.098	0.89	MC
6Z1KFK		1.832	0.103	0.93	1.822	0.076	0.69	MC
788V8T		1.653	-0.075	-0.67	1.702	-0.044	-0.40	MC
98MWET		1.942	0.213	1.91	1.935	0.189	1.73	TP
9BCV8J		1.775	0.047	0.42	1.803	0.058	0.53	XX
ABG8NX		1.792	0.063	0.57	1.840	0.094	0.86	MC
AK8P5M		1.802	0.073	0.66	1.842	0.096	0.88	MC
APSFSA		1.595	-0.133	-1.20	1.613	-0.132	-1.21	MC
AXKUTV		1.972	0.243	2.18	1.968	0.223	2.03	MC
CULK4K		1.773	0.045	0.40	1.782	0.036	0.33	MD
EEN4FP		1.902	0.173	1.55	1.913	0.168	1.53	MC
EL8Q4V		1.832	0.103	0.93	1.882	0.136	1.24	MC
F684G1		1.637	-0.092	-0.82	1.627	-0.119	-1.09	MC
G8CKHG		1.640	-0.088	-0.79	1.680	-0.066	-0.60	MC
GPW84R		1.695	-0.033	-0.30	1.715	-0.031	-0.28	MC
H3JHVF	X	1.822	0.093	0.84	1.958	0.213	1.94	MD
HE2X5A		1.612	-0.117	-1.05	1.647	-0.099	-0.91	MC
J5ZG1W		1.827	0.098	0.88	1.802	0.056	0.51	MC
JNK1G2		1.565	-0.163	-1.46	1.613	-0.132	-1.21	MC
K9KWW	X	1.743	0.015	0.13	1.653	-0.092	-0.85	MC
LFKJEF		1.678	-0.051	-0.45	1.689	-0.057	-0.52	MC
MG5HL5		1.514	-0.214	-1.92	1.519	-0.226	-2.07	MC
N8PSAQ		1.733	0.005	0.04	1.787	0.041	0.37	MC
NN5L5P		1.744	0.016	0.14	1.806	0.060	0.55	MC
NPGUD		1.683	-0.045	-0.40	1.707	-0.039	-0.36	MC
PC8JBS		1.827	0.098	0.88	1.838	0.093	0.85	MC
PFJKBB		1.858	0.130	1.17	1.867	0.121	1.10	TP
R2KVMN	*	1.657	-0.072	-0.64	1.610	-0.136	-1.24	XX
RCD8Q1		1.675	-0.053	-0.48	1.682	-0.064	-0.59	MD
TB734H		1.505	-0.223	-2.00	1.550	-0.196	-1.79	MP

Analysis 685

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
TH2Z6F		1.810	0.082	0.73	1.795	0.049	0.45	MC
UWYJ9Q		1.803	0.075	0.67	1.810	0.064	0.59	MC
Y4X63C		1.658	-0.070	-0.63	1.718	-0.027	-0.25	MC

Summary Statistics	
Grand Means	
1.7283 minutes	1.7458 minutes
Std Dev Btwn Labs	
0.1116 minutes	0.1094 minutes
Statistics based on 36 of 38 reporting participants	

Samples Z75-Z76: EPDM compound, batch #1 & Z77-Z78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #685

H3JHVF (X) - Inconsistency in testing between Sample sets.

K9KWWP (X) - Inconsistency in testing between Sample sets.

Instrument Code Listing

685 MDR Vulcanization-Scorch Time, Ts1 (minutes)

Instruments:

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

Rubber Interlaboratory Testing Program

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
15N15Z		5.335	0.149	0.60	5.430	0.170	0.74	MC
15VT93		5.330	0.144	0.58	5.353	0.094	0.41	MC
3GWASF		5.473	0.287	1.15	5.402	0.142	0.62	MC
5CB4BS		5.530	0.344	1.38	5.610	0.350	1.53	MC
5DGKD4		5.070	-0.116	-0.46	5.197	-0.063	-0.27	MD
6QXQDR	*	4.810	-0.376	-1.50	5.198	-0.061	-0.27	MC
7PKUCD		5.327	0.141	0.56	5.387	0.127	0.55	MC
9434YJ		5.447	0.261	1.04	5.430	0.170	0.74	MC
9SMWQR		5.340	0.154	0.62	5.442	0.182	0.79	TP
9ZBUTS		4.880	-0.306	-1.22	5.030	-0.230	-1.00	TP
A2ESXT		5.360	0.174	0.70	5.332	0.072	0.31	MC
AL14B6		5.055	-0.131	-0.52	5.168	-0.091	-0.40	MC
B69DGN		5.448	0.262	1.05	5.510	0.250	1.09	MD
CPGK4F		5.285	0.099	0.40	5.387	0.127	0.55	MD
EAR41M		4.705	-0.481	-1.92	4.783	-0.476	-2.07	TP
ET2ELC		5.118	-0.068	-0.27	5.192	-0.068	-0.30	MC
FT725Q		5.187	0.001	0.00	5.237	-0.023	-0.10	MC
GE4XD4		5.213	0.027	0.11	5.348	0.089	0.39	MC
HQ8SFD		5.215	0.029	0.12	5.190	-0.070	-0.30	MD
JUFFSU		5.045	-0.141	-0.56	5.298	0.039	0.17	MC
LCL8HF		5.261	0.075	0.30	5.425	0.165	0.72	MC
LUX3LM		4.713	-0.473	-1.89	4.728	-0.531	-2.31	MC
M1AW26		5.182	-0.004	-0.02	5.267	0.007	0.03	XX
M1CADB	X	3.350	-1.836	-7.34	3.502	-1.758	-7.66	MC
NLHHH		4.937	-0.249	-1.00	4.838	-0.421	-1.84	MC
Q3724L		5.220	0.034	0.13	5.286	0.027	0.12	MC
RQ3GM2		5.378	0.192	0.77	5.270	0.010	0.04	MC
SM2PAH		5.013	-0.173	-0.69	5.103	-0.156	-0.68	MC
SMJCDB	*	4.522	-0.664	-2.65	4.748	-0.511	-2.23	MC
UXFD9Z	X	14.647	9.461	37.82	14.700	9.440	41.11	MC
V8HH7C		5.305	0.119	0.48	5.360	0.100	0.44	MC
VTDSZ8		5.107	-0.079	-0.32	5.162	-0.098	-0.43	MC
X5E6XJ		5.533	0.347	1.39	5.552	0.292	1.27	MC
X8WYX5		5.392	0.206	0.82	5.632	0.372	1.62	MC
XX63YH		5.663	0.477	1.91	5.637	0.377	1.64	TP

Analysis 686

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YC XV85		5.042	-0.144	-0.58	5.178	-0.081	-0.35	MC
Z2JKQB		5.008	-0.178	-0.71	5.088	-0.171	-0.75	MP
Z3QF2W		5.202	0.016	0.06	5.067	-0.193	-0.84	MC
ZEGBVH		5.227	0.041	0.16	5.345	0.085	0.37	MC

Summary Statistics	
Grand Means	
5.1859 minutes	5.2597 minutes
Std Dev Btwn Labs	
0.2502 minutes	0.2296 minutes
Statistics based on 37 of 39 reporting participants	

Samples Z75-Z76: EPDM compound, batch #1 & Z77-Z78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #686

MICADB (X) - Inconsistency in testing between Sample sets. Low data for Sample set Z75-Z76.

UXFD9Z (X) - Extreme data for both Sample sets.

Rubber Interlaboratory Testing Program

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1LZZ9K		8.235	-0.109	-0.37	8.337	-0.160	-0.49	MC
28GYHR		8.558	0.214	0.73	8.782	0.285	0.88	XX
34J69Y		8.735	0.391	1.33	9.030	0.533	1.64	MC
39B5UV		8.192	-0.153	-0.52	8.357	-0.140	-0.43	MD
948CDY		8.500	0.156	0.53	8.542	0.045	0.14	MC
A5YCVF		8.228	-0.116	-0.40	8.540	0.043	0.13	MD
AD7JDQ		8.642	0.297	1.02	8.785	0.288	0.89	MC
AXLHKT	*	8.342	-0.003	-0.01	8.737	0.240	0.74	MC
B6EA15		7.872	-0.473	-1.61	7.990	-0.507	-1.56	MC
CK6H6S		8.665	0.321	1.10	8.927	0.430	1.32	MC
D89UUP		8.147	-0.198	-0.68	8.270	-0.227	-0.70	TP
DUR4X7		8.347	0.002	0.01	8.485	-0.012	-0.04	MC
EJJCLD	X	8.039	-0.305	-1.04	7.831	-0.666	-2.05	MC
EP34PC		8.127	-0.218	-0.74	8.292	-0.205	-0.63	MC
F6UBL3		8.675	0.331	1.13	8.928	0.432	1.33	MC
GLLXP4		8.268	-0.076	-0.26	8.258	-0.238	-0.73	MC
GYCVZL		8.331	-0.014	-0.05	8.467	-0.030	-0.09	MC
H2856E		8.823	0.479	1.64	9.007	0.510	1.57	MC
H8CMMZ		8.433	0.089	0.30	8.578	0.082	0.25	MC
J6M1PN		8.097	-0.248	-0.85	8.215	-0.282	-0.87	MC
KRXGAJ		8.458	0.114	0.39	8.542	0.045	0.14	MC
L552TJ		8.482	0.137	0.47	8.755	0.258	0.80	MC
LPJ5JN		8.415	0.071	0.24	8.555	0.058	0.18	MC
MVRVX	*	7.458	-0.886	-3.03	7.565	-0.932	-2.87	TP
N5CN8F		8.452	0.107	0.37	8.613	0.117	0.36	MC
NS28TA		8.472	0.127	0.44	8.675	0.178	0.55	MC
NTHPMZ		8.365	0.021	0.07	8.478	-0.018	-0.06	MC
PPPPZM		8.068	-0.276	-0.94	8.258	-0.238	-0.73	MP
QYKBWJ		7.848	-0.496	-1.69	7.867	-0.630	-1.94	MC
RL3WAH		7.863	-0.481	-1.64	7.998	-0.498	-1.54	MD
TF6GR8		8.058	-0.286	-0.98	8.095	-0.402	-1.24	TP
TH517M		8.815	0.471	1.61	8.837	0.340	1.05	TP
UERLRL		8.655	0.311	1.06	8.758	0.262	0.81	MC
VC156X		8.285	-0.059	-0.20	8.422	-0.075	-0.23	MD
VF7DL9		8.718	0.374	1.28	8.870	0.373	1.15	MC

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VSDGLJ		8.262	-0.083	-0.28	8.432	-0.065	-0.20	MC
XHPWM		8.467	0.122	0.42	8.465	-0.032	-0.10	MC
XN7T1D		8.445	0.100	0.34	8.684	0.187	0.58	MC
Y13LLV	X	14.647	6.302	21.53	14.700	6.203	19.11	MC
Y2EDFX		8.282	-0.063	-0.21	8.483	-0.013	-0.04	MC

Summary Statistics

Grand Means

8.3443 minutes

8.4968 minutes

Std Dev Btwn Labs

0.2927 minutes

0.3246 minutes

Statistics based on 38 of 40 reporting participants

Samples Z75-Z76: EPDM compound, batch #1 & Z77-Z78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #687

EJJCLD (X) - Inconsistency in testing between Sample sets. Also inconsistent in testing within Sample set Z77-Z78.

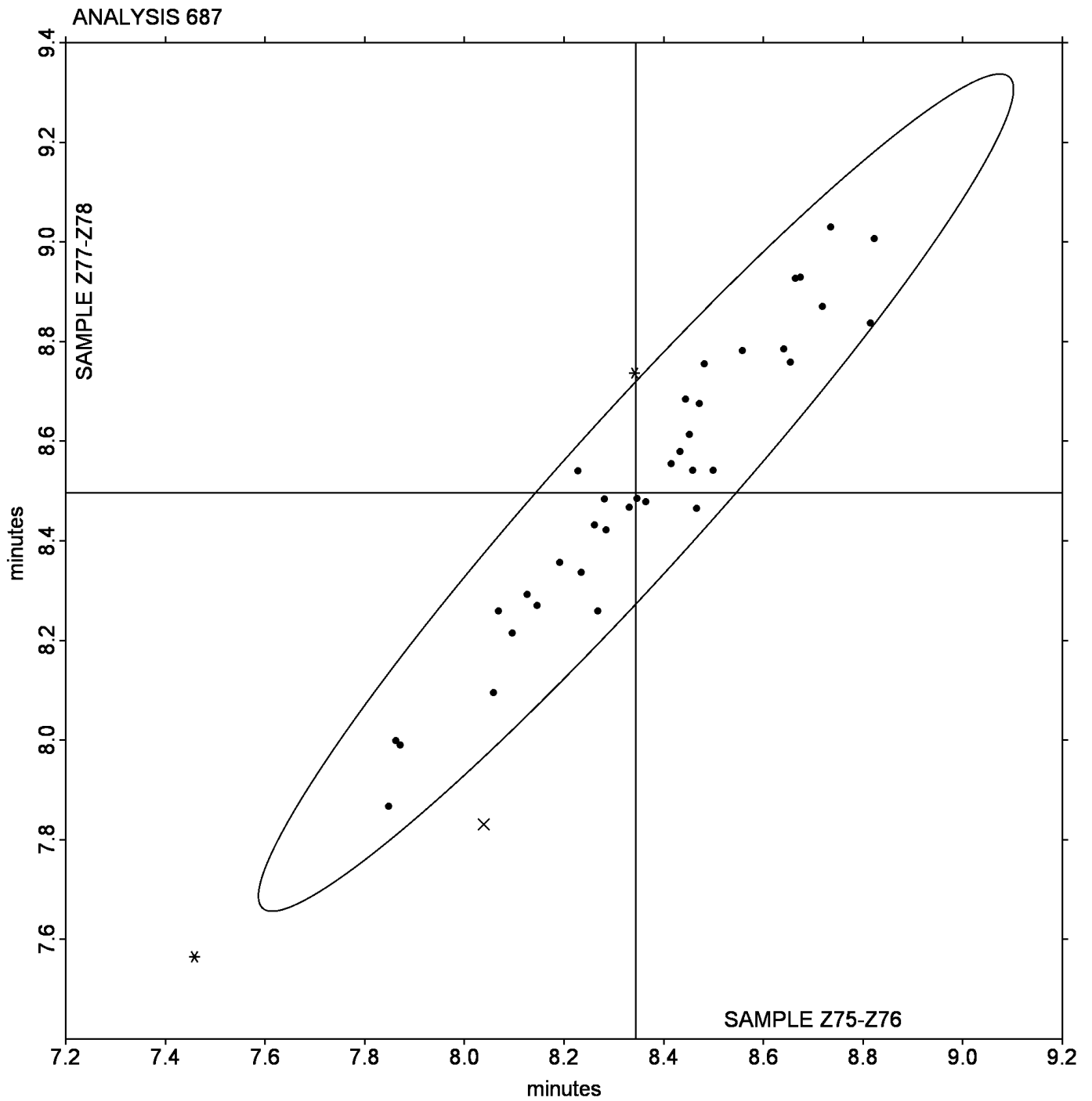
Y13LLV (X) - Extreme data for both Sample sets.

Analysis 687

MDR Vulcanization-Cure Time 90% (minutes)

Grand Mean Sample Z75-Z76 = 8.3443 minutes

Grand Mean Sample Z77-Z78 = 8.4968 minutes



Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1WPFLR		2.172	-0.131	-0.40	1.912	-0.102	-0.33	MC
21RPTZ	*	3.242	0.939	2.89	2.917	0.903	2.92	TP
3Y6WW		2.052	-0.251	-0.77	1.778	-0.235	-0.76	XX
4JDHCF		2.483	0.181	0.56	2.185	0.172	0.56	MC
5MWDS		2.167	-0.136	-0.42	1.890	-0.123	-0.40	MC
6SRV2R		2.272	-0.031	-0.09	1.958	-0.055	-0.18	MC
8LUH4C		2.084	-0.218	-0.67	1.825	-0.189	-0.61	MC
ATJHHA		2.383	0.081	0.25	2.077	0.063	0.20	MC
C416KT		2.395	0.093	0.28	2.090	0.077	0.25	MC
DJVHZU		2.483	0.181	0.56	2.165	0.151	0.49	MD
E4RYMQ		2.053	-0.249	-0.77	1.807	-0.207	-0.67	MC
F92JB1		2.795	0.493	1.52	2.437	0.423	1.37	MC
FBH1ZL		1.975	-0.327	-1.01	1.717	-0.296	-0.96	MC
FLQF6T	*	3.102	0.799	2.46	2.820	0.807	2.61	MC
FYXTH7		2.145	-0.158	-0.49	1.875	-0.139	-0.45	MC
GCCBQ2		2.180	-0.122	-0.38	1.862	-0.152	-0.49	MC
GU3UVU		2.191	-0.112	-0.34	1.940	-0.074	-0.24	MP
GVAUH		2.135	-0.168	-0.52	1.829	-0.185	-0.60	MD
HXF2EL		2.068	-0.234	-0.72	1.788	-0.225	-0.73	MC
K53ARH		2.018	-0.284	-0.87	1.768	-0.245	-0.79	TP
KNHEJ1		3.090	0.788	2.42	2.748	0.735	2.38	MC
LL9V1J		2.126	-0.177	-0.54	1.828	-0.186	-0.60	MC
N526KN		2.013	-0.289	-0.89	1.765	-0.248	-0.80	MC
NAXC8L		2.133	-0.169	-0.52	1.879	-0.134	-0.43	MC
NN8QU6	X	5.287	2.984	9.18	4.532	2.518	8.15	MC
NNUMH		2.072	-0.231	-0.71	1.777	-0.237	-0.77	MC
NU4C7R		2.127	-0.176	-0.54	1.860	-0.153	-0.50	MC
Q2J98Q		2.348	0.046	0.14	1.993	-0.021	-0.07	MC
QABSYC		2.108	-0.195	-0.60	1.832	-0.181	-0.59	MC
RZG7JE		2.145	-0.158	-0.49	1.804	-0.209	-0.68	MC
S117U7		2.214	-0.088	-0.27	1.932	-0.081	-0.26	MC
SEVE59		2.133	-0.169	-0.52	1.865	-0.148	-0.48	TP
SWAWT		2.332	0.029	0.09	2.037	0.023	0.08	MC
VBQ3KY		2.373	0.071	0.22	2.055	0.041	0.13	MD
W6Q9Q2		2.024	-0.279	-0.86	1.753	-0.260	-0.84	MD

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
WC1D2N		2.025	-0.277	-0.85	1.802	-0.212	-0.69	MC
WE3XM		2.293	-0.009	-0.03	1.995	-0.018	-0.06	MC
XFVH46		2.718	0.416	1.28	2.408	0.395	1.28	MC
Y8E6MZ		2.235	-0.067	-0.21	1.938	-0.075	-0.24	MC
Z4HF1T		2.893	0.591	1.82	2.613	0.600	1.94	TP

Summary Statistics	
Grand Means	
2.3025 lbf.in	2.0134 lbf.in
Std Dev Btw Labs	
0.3249 lbf.in	0.3089 lbf.in
Statistics based on 39 of 40 reporting participants	

Summary Statistics in SI Units	
Grand Means	
2.6015 dN.m	2.2748 dN.m
Std Dev Btw Labs	
0.3671 dN.m	0.3490 dN.m
Statistics based on 39 of 40 reporting participants	

Samples Z75-Z76: EPDM compound, batch #1 & Z77-Z78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #688

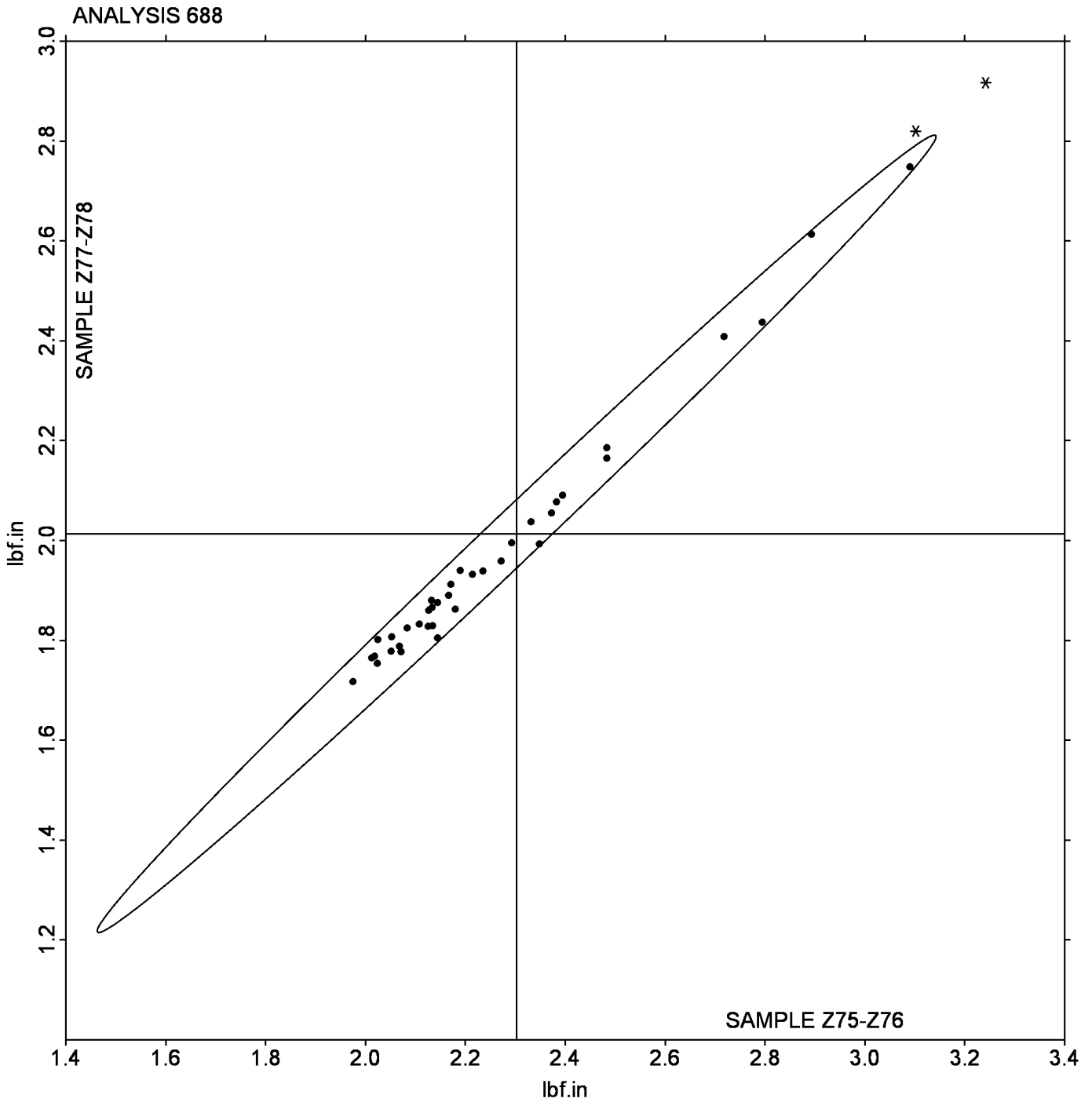
NN8QU6 (X) - Data for all Samples are high.

Analysis 688

MDR Vulcanization: Minimum Torque (lbf.in)

Grand Mean Sample Z75-Z76 = 2.3025 lbf.in

Grand Mean Sample Z77-Z78 = 2.0134 lbf.in



Rubber Interlaboratory Testing Program

Analysis 689

MDR Vulcanization: Maximum Torque (Ibf.in)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
222K6S		12.62	-0.16	-0.36	12.66	-0.16	-0.37	MD
2YECT5		13.08	0.30	0.70	13.15	0.33	0.77	MC
4QPY84		13.02	0.25	0.57	12.77	-0.05	-0.12	MC
5VRPFV		12.77	0.00	-0.01	13.04	0.22	0.51	MD
6X7NLB		12.30	-0.48	-1.09	12.26	-0.56	-1.30	MC
8HCQZK	*	13.92	1.15	2.63	14.16	1.34	3.11	TP
8R5K22		12.67	-0.10	-0.23	12.78	-0.04	-0.09	MC
8UT48J		12.70	-0.07	-0.17	12.71	-0.12	-0.27	XX
99BP6K	*	13.33	0.56	1.28	12.95	0.12	0.29	MC
99WY3C		12.66	-0.11	-0.25	12.76	-0.06	-0.14	MC
D2PV2V		12.66	-0.12	-0.27	12.73	-0.10	-0.22	MC
DLWKE7		12.88	0.11	0.25	12.74	-0.08	-0.18	MC
DN2KKR	*	13.53	0.75	1.73	13.25	0.43	1.00	MC
F8JP4L		12.61	-0.17	-0.38	12.59	-0.23	-0.55	MC
FRUY7M		12.27	-0.50	-1.15	12.54	-0.28	-0.64	TP
FTMVRE	X	5.30	-7.48	-17.15	4.55	-8.27	-19.23	MC
FUG3TJ		12.78	0.00	0.01	12.81	-0.01	-0.02	MC
J7RXUJ		13.07	0.29	0.67	13.17	0.35	0.82	MC
JDJ8E3		12.63	-0.14	-0.33	12.69	-0.13	-0.31	MC
JLHHDL		12.19	-0.59	-1.35	12.27	-0.55	-1.28	MC
LL8U4Z		12.77	-0.01	-0.02	12.73	-0.09	-0.22	MC
LYZSEG		13.53	0.75	1.73	13.65	0.83	1.94	MC
M8ZJ2V		12.76	-0.01	-0.02	12.85	0.02	0.06	MC
NGM7LG		12.89	0.12	0.27	13.02	0.19	0.45	MC
PVG2A3		12.57	-0.20	-0.47	12.72	-0.10	-0.23	MC
QKLQUG		12.72	-0.06	-0.13	12.80	-0.03	-0.06	MC
RLWSFF		12.58	-0.19	-0.44	12.82	0.00	-0.01	MC
SDKKJG		12.67	-0.11	-0.25	12.75	-0.07	-0.17	MC
T6Z5LJ		12.70	-0.07	-0.16	12.75	-0.07	-0.16	MC
TNUUCU		12.66	-0.11	-0.25	12.68	-0.14	-0.32	MC
TS7Q14		12.51	-0.26	-0.60	12.57	-0.25	-0.57	MC
UJ1VQG		13.25	0.47	1.09	13.32	0.50	1.16	MP
UL9FMA		13.24	0.47	1.07	13.15	0.32	0.75	MC
VLQUQD		13.12	0.34	0.79	13.30	0.48	1.11	MD
WQS1EA	*	11.54	-1.23	-2.83	11.55	-1.27	-2.96	MC

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Z75-Z76			Sample Z77-Z78			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
WY5UQ6		12.64	-0.13	-0.31	12.53	-0.29	-0.68	TP
X4QBGM		13.09	0.32	0.72	13.19	0.37	0.85	MC
YMTQQZ		12.33	-0.45	-1.02	12.47	-0.35	-0.81	MD
YZ451Y		12.97	0.20	0.45	13.04	0.22	0.51	MC
Z57XS3		11.97	-0.80	-1.84	12.11	-0.71	-1.64	TP

Summary Statistics	
Grand Means	
12.773 lbf.in	12.821 lbf.in
Std Dev Btwn Labs	
0.436 lbf.in	0.430 lbf.in
Statistics based on 39 of 40 reporting participants	

Summary Statistics in SI Units	
Grand Means	
14.432 dN.m	14.485 dN.m
Std Dev Btwn Labs	
0.493 dN.m	0.486 dN.m
Statistics based on 39 of 40 reporting participants	

Samples Z75-Z76: EPDM compound, batch #1 & Z77-Z78: EPDM compound, batch #2

Comments on assigned Data Flags for Test #689

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

Analysis 689

MDR Vulcanization: Maximum Torque (lbf.in)

Grand Mean Sample Z75-Z76 = 12.773 lbf.in

Grand Mean Sample Z77-Z78 = 12.821 lbf.in

