

Test Monitoring Center

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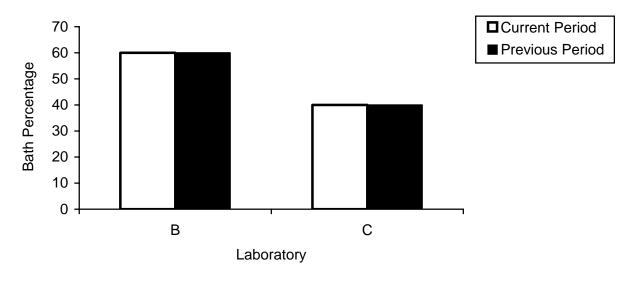
MEMORANDUM:	08-068
DATE:	November 24, 2008
TO:	Don Bell, Chairman, OSCT Surveillance Panel
FROM:	Michael T. Kasimirsky Michael J. Rasimirsky
SUBJECT:	OSCT Reference Test Status from April 1, 2008 through September 30, 2008

A total of 39 OSCT reference oil results from two laboratories were reported during the period April 1, 2008 through September 30, 2008.

The following table summarizes the status of the reference oil test results reported to the TMC this report period:

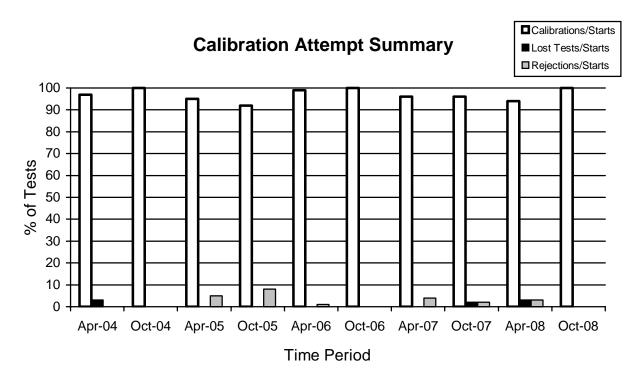
Elastomer Type		TMC Validity	No. of Test Oil Results
Fluoroelastomer	Operationally and Statistically Acceptable	AC	11
	Statistically Unacceptable	OC	0
	Operationally Invalid	LC	0
	Aborted	XC	0
	Information Only	NN	0
	Elastomer Batch Approval	NI	6
Polyacrylate	Operationally and Statistically Acceptable	AC	11
	Statistically Unacceptable	OC	0
	Operationally Invalid	LC	0
	Aborted	XC	0
	Information Only	NN	0
	Elastomer Batch Approval	NI	0
Nitrile	Operationally and Statistically Acceptable	AC	11
	Statistically Unacceptable	OC	0
	Operationally Invalid	LC	0
	Aborted	XC	0
	Information Only	NN	0
	Elastomer Batch Approval	NI	0
	TOTAL		39

The following chart shows the laboratory bath distribution for data reported during this report period:



Laboratory/Bath Distribution

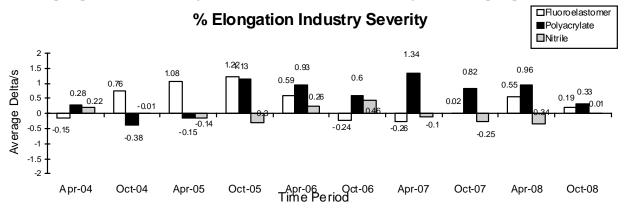
Attempted calibration tests are depicted graphically below by report period:



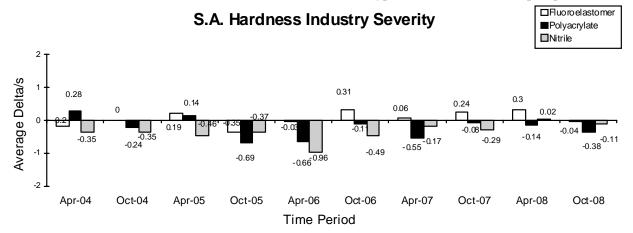
The calibration per start rate increased slightly when compared to the previous period. The lost test per start and rejected per start rates have decreased slightly when compared to the previous report period.

INDUSTRY TEST SEVERITY

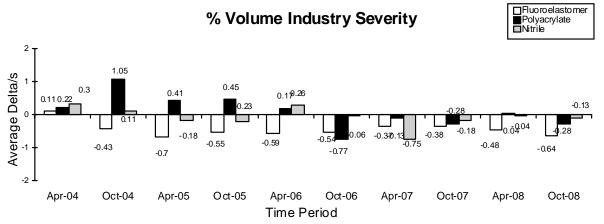
Percent elongation industry mean delta/s bar charts for the last ten report periods, for each elastomer material are shown below. Percent elongation for fluoroelastomer and polyacrylate elastomers trended mild for this report period. Percent elongation for nitrile elastomer was on target for this report period



S.A. hardness industry mean delta/s bar charts for the last ten report periods, for each elastomer material are shown below. S.A. hardness for all three elastomer types trended severe this report period

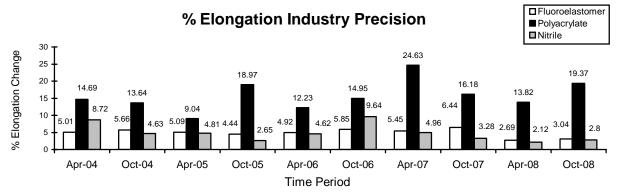


Percent volume industry mean delta/s bar charts for the last ten report periods, for each elastomer material are shown below. Percent volume for all three elastomer types trended severe for this report period.

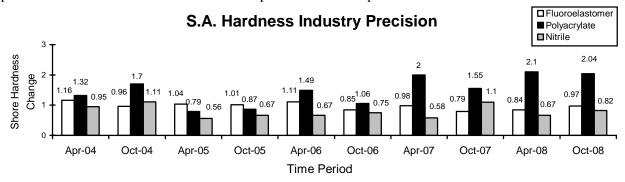


INDUSTRY TEST PRECISION

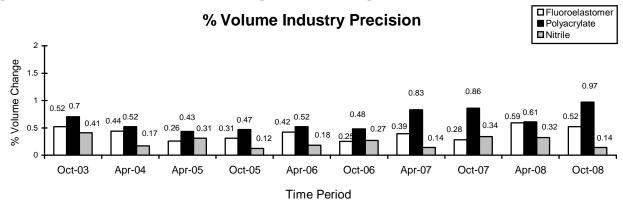
Percent elongation industry precision estimates for elastomer material, for the last ten report periods are shown below. Precision for the fluoroelastomer, polyacrylate, and nitrile elastomers have degraded with respect to the previous period. Precision for all three elastomers compares well with historical levels.



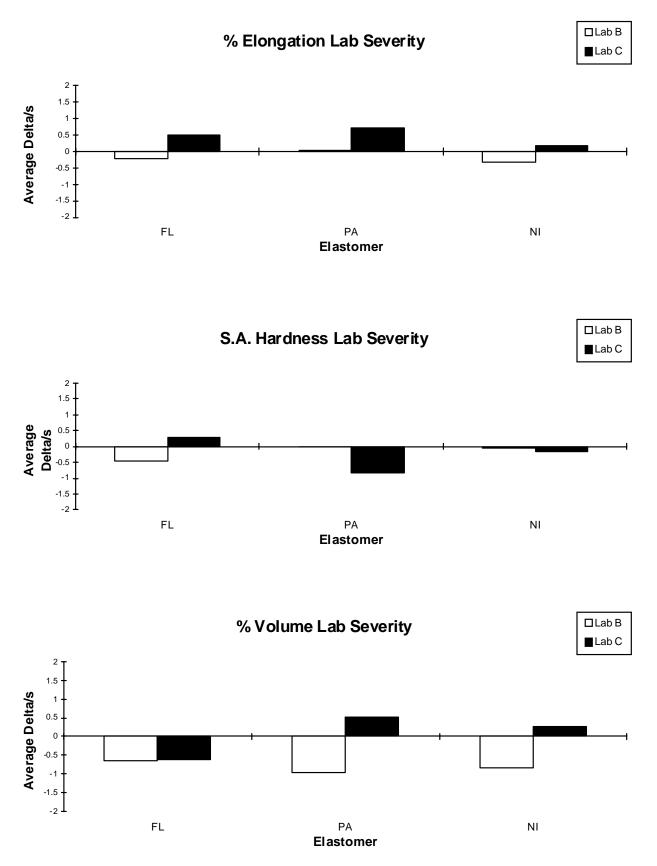
Shore hardness industry precision estimates for elastomer material, for the last ten report periods are shown below. Precision for the fluoroelastomer and nitrile elastomers have degraded with respect to the previous period. Precision for the polyacrylate elastomer has improved slightly with respect to the previous period. Precision for all three elastomers compares well with respect to historical levels.



Percent volume industry precision estimates for elastomer materials, for the last ten report periods are shown below. Precision for fluoroelastomer and nitrile elastomers has improved slightly with respect to the previous period. Precision for the polyacrylate elastomer has degraded with respect to the previous period. Precision for all three elastomers compares well with respect to historical levels.



Shown below are a summary of the average Percent Elongation, S.A. Hardness, and Percent Volume Δ /s by elastomer for all laboratories reporting data this report period.



INDUSTRY CONTROL CHARTS

Figures 1 through 3 are industry control charts for elongation change, shore hardness change, and percent volume change, respectively. Figures 4 through 6 are industry control charts of the last 120 test results for elongation change, shore hardness change, and percent volume change, respectively. Severity and precision EWMA charts for elongation change, shore hardness change, and percent volume change were all in control this period.

REFERENCE OILS

The following table quantifies remaining reference oil inventories for use in OSCT testing. The table shows the number of oil samples, of each reference oil type, currently in laboratory inventories. Each reference oil sample has 750 ml (0.2 gallons) of oil.

LAB	Samples of Oil Remaining				
	160-1	161-1	168		
В	6	4	5		
C	7	6	5		
TMC ^A	114	26	40		

^ATotal TMC inventory shown in gallons (each sample is 0.2 gal)

INFORMATION LETTERS

There were no information letters issued this report period.

TMC LAB VISITS

There was one lab visit conducted this report period with no discrepancies noted.

MTK/mtk

Attachments

c: OSCT Surveillance Panel
J. L. Zalar, TMC
F. M. Farber, TMC
ftp://ftp.astmtmc.cmu.edu/docs/gear/osct/semiannualreports/osct-10-2008.pdf

Distribution: Email

Table 1

	OSCT Timeline	
Effective Date	Effective Date Topic	
19961001	Test Report Forms and Data Dictionary	96-1
19970324	Elastomer Requirements For Testing a Non-reference Oil	97-1
19970701	Specimen Cleaning Procedure	97-2
19971201	Revised Test Report Forms and Data Dictionary	97-3
19980504	Seal Elastomer Shelf Life	98-1
19980504	Revised Reference Oil and Non-reference Oil Requirements	98-1
19980504	Addition of Calibration Requirements for Hardness Durometer, Balance, and Tension Testing Machine	98-1
19980817	Revised Test Report Forms and Data Dictionary	98-1
20050815	Updated Test Precision	05-1
20050815	Rounding Test Results Using ASTM E 29	05-1
20051102	Initial and Final Volume Measurements	05-2
20060327	Addition of a Calibration Procedure for the Tension Testing Machine	06-1
20060327	New Reference Oil Testing Section	06-1
20060327	Editorial Changes	06-1
20060331	Specimen Spacer Width Revision	06-2
20071001	Test Oil Temperature Data Logging and Tolerance	07-1
20080114	Percent Deviation Calculation for Test Oil Temperature Data Logging	07-2

Figure 1

