



Test Monitoring Center

6555 Penn Avenue
Pittsburgh, PA 15206-4489
(412) 365-1000

MEMORANDUM: 03-098

DATE: October 7, 2003

TO: Claire Whitton, Chairman, OSCT Surveillance Panel

FROM: Donald Lind

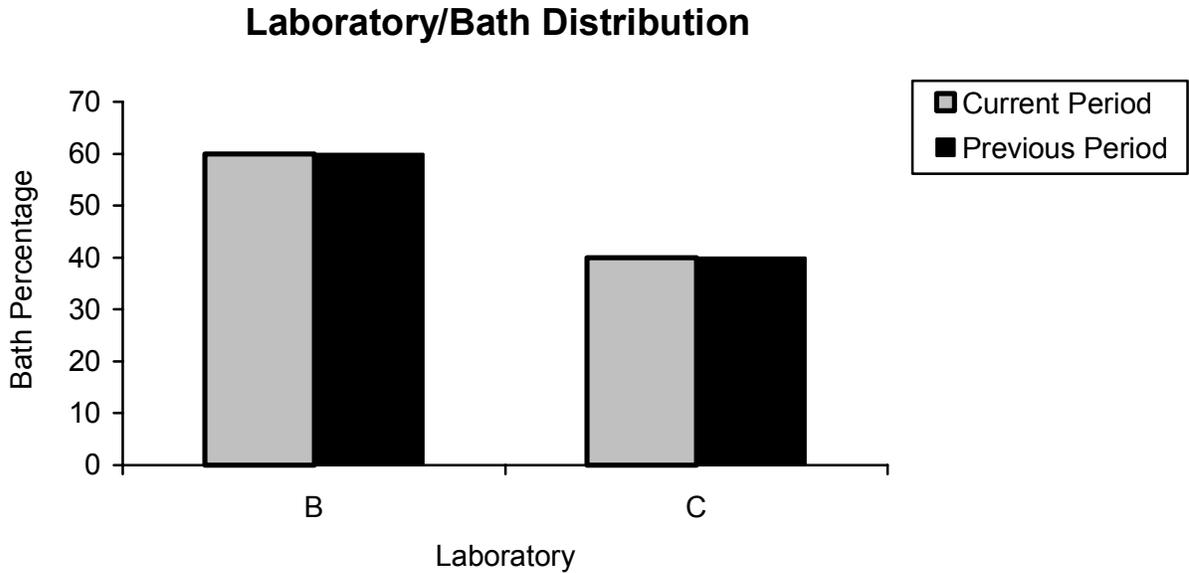
SUBJECT: OSCT Reference Oil Test Results from April 1, 2003 through September 30, 2003

A total of 102 OSCT reference oil results from 2 laboratories were completed during the period April 1, 2003 through September 30, 2003.

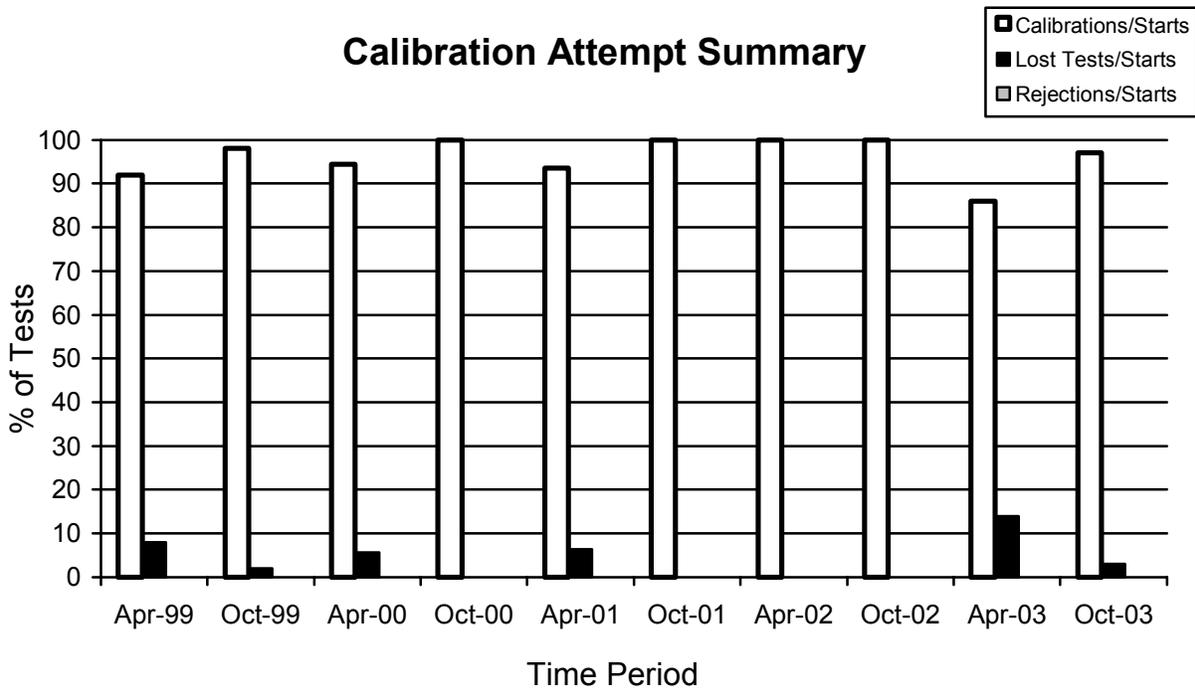
The following table summarizes the status of the reference oil test results reported to the TMC this report period:

Elastomer Type		TMC Validity	No. of Test Oil Results
Fluoroelastomer	Operationally and Statistically Acceptable	AC	36
	Statistically Unacceptable	OC	0
	Operationally Invalid	LC	2
	Aborted	XC	0
	Information Only	NN	0
Polyacrylate	Operationally and Statistically Acceptable	AC	36
	Statistically Unacceptable	OC	0
	Operationally Invalid	LC	0
	Aborted	XC	0
	Information Only	NN	0
Nitrile	Information Only	NI	28
	Operationally Invalid	LI	0
	Information Only	NN	0
	Aborted	XI	0
TOTAL			102

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



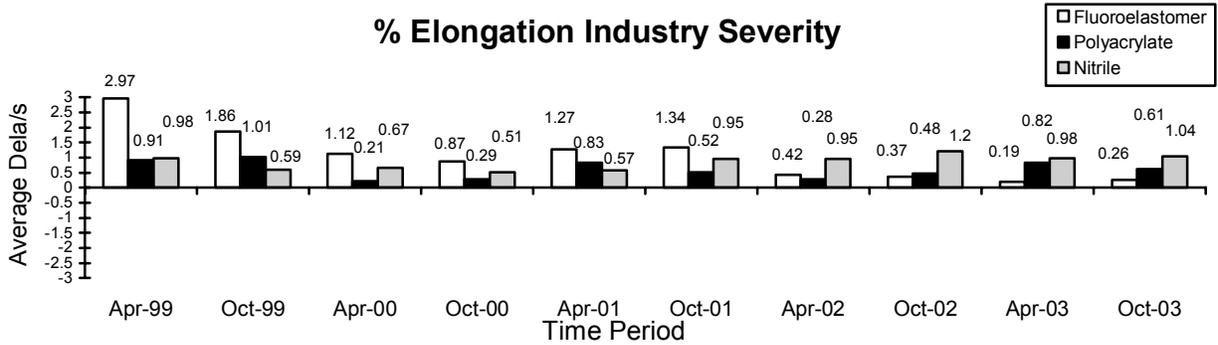
Attempted calibration tests are depicted graphically below by report period:



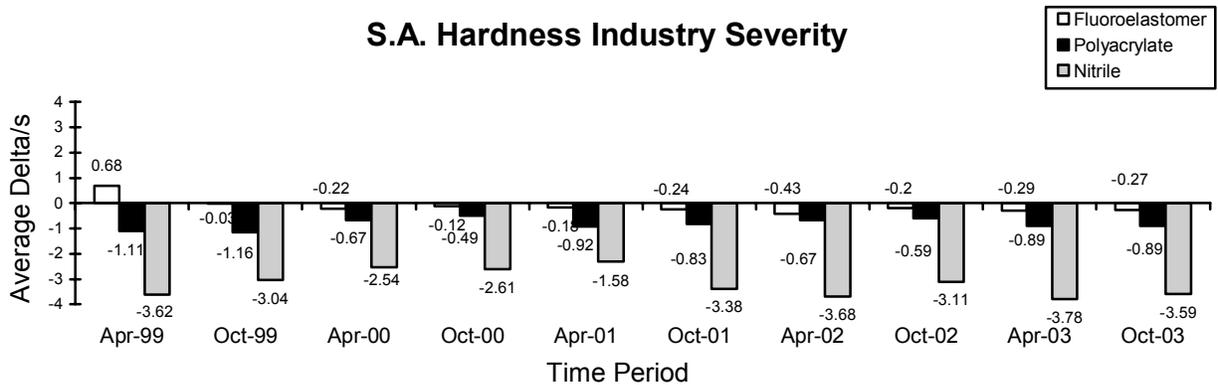
The calibration per start rate has increased when compared to the previous period. The lost test per start rate has decreased when compared to the previous period. There were no statistically rejected tests this report period. All rates are well within historical levels.

INDUSTRY TEST SEVERITY

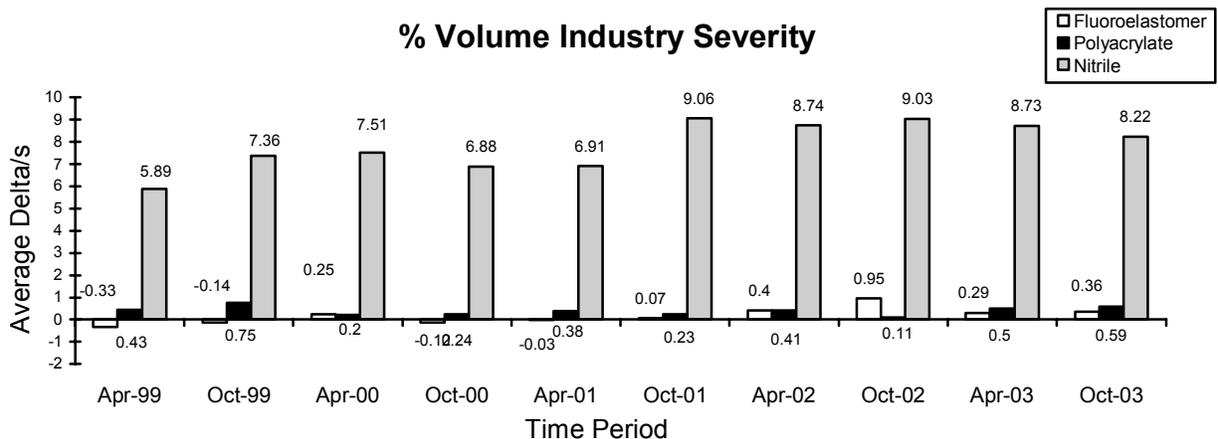
Percent elongation industry mean delta/s bar charts for each elastomer material are shown below by report period. Percent elongation for all three materials (fluoroelastomer, nitrile and polyacrylate) trended mild for the period.



S.A. hardness industry mean delta/s bar charts for each elastomer material are shown below by report period. S.A. hardness for all three materials (fluoroelastomer, nitrile and polyacrylate) trended mild for the period.

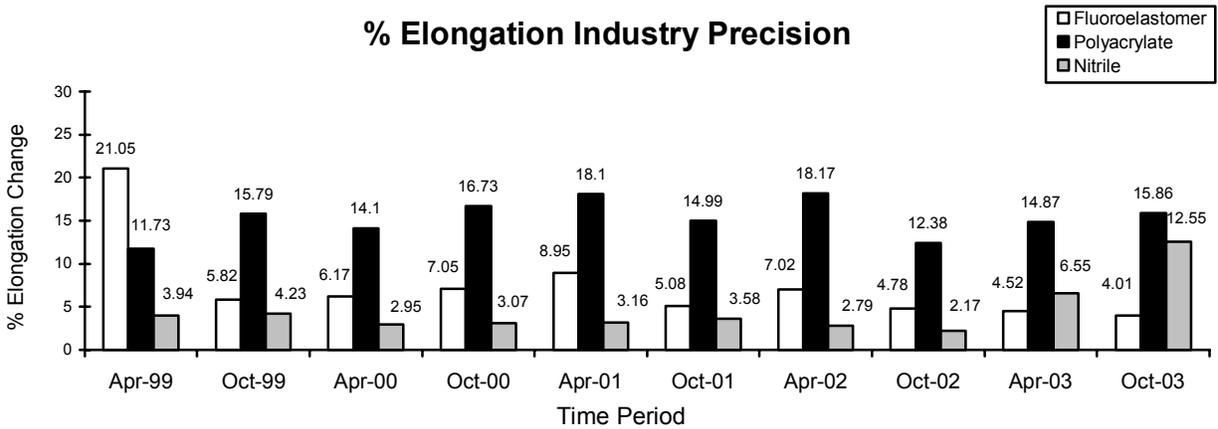


Percent volume industry mean delta/s bar charts for each elastomer material are shown below by report period. Nitrile materials were significantly mild of target. Fluoroelastomer and polyacrylate materials trended slightly mild this period. Both labs experienced mild results with the nitrile elastomer as much as 19 standard deviations from target.

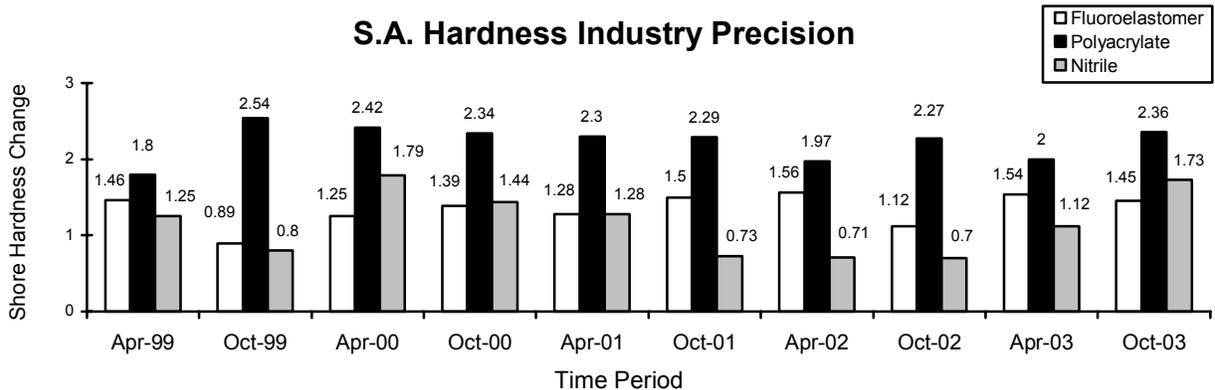


INDUSTRY TEST PRECISION

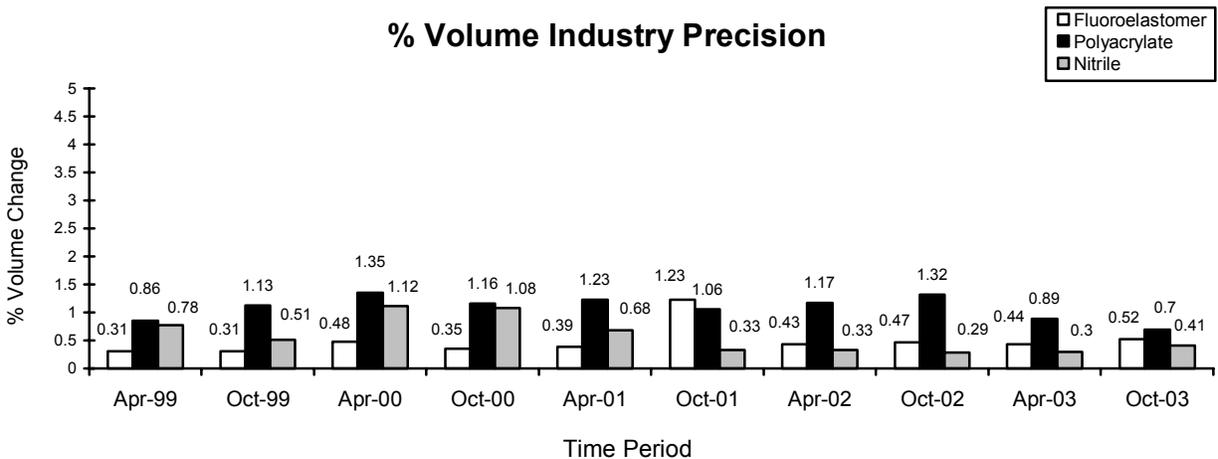
Percent elongation industry precision estimates for elastomer material are shown below by report period. Precision for polyacrylate and fluoroelastomer elastomers show very little change with respect to the previous period. Precision for the nitrile elastomer has doubled with respect to the previous periods.



Shore hardness industry precision estimates for elastomer material are shown below by report period. Precision for all elastomers compares well with the previous period and historical rates.



Percent volume industry precision estimates for elastomer materials are shown below by report period. Precision for polyacrylate, fluoroelastomer and nitrile elastomers show very little change with respect to the previous period and compares well with respect to the previous periods.



REFERENCE OILS

The following table quantifies each reference oil by the number of reference oil containers remaining at the TMC and each laboratory. Each reference oil container has 750 ml (0.2 gallons) of oil.

LAB	160-1	161-1	162
B	6	10	4
C	8	13	6
TMC	805	421	37

INFORMATION LETTERS

There were no information letters issued during this report period.

TMC ACTIVITIES

There were no lab visits conducted this report period.

DML/dml

Attachments

c: OSCT Surveillance Panel

J. L. Zalar, TMC

F. M. Farber, TMC

<ftp://ftp.astmtmc.cmu.edu/docs/gears/osct/semiannualreports/osct-10-2003.pdf>

Distribution: Email