



## Test Monitoring Center

@ Carnegie Mellon University  
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<http://astmtmc.cmu.edu>  
412-365-1000

MEMORANDUM: 17-009

DATE: May 3, 2017

TO: Yong-Li McFarland,  
Chairwoman, Engine Oil Filterability Test Surveillance Panel

FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*

SUBJECT: EOFT Testing from October 1, 2016 through March 31, 2017

A total of 109 EOFT tests were reported to the Test Monitoring Center during the report period from October 1, 2016 through March 31, 2017.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0417.doc/mem17-009.mtk.doc

cc: F. M. Farber

J. A. Clark

EOFT Surveillance Panel

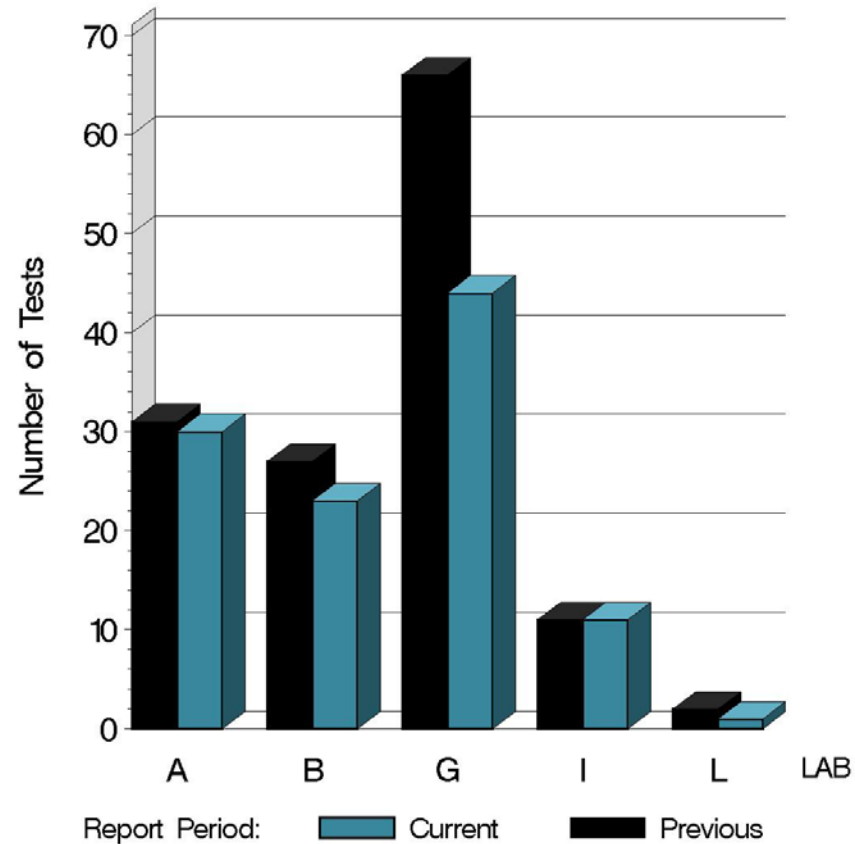
<ftp://ftp.astmtmc.cmu.edu/docs/bench/eoft/semiannualreports/eoft-04-2017.pdf>

Distribution: email

# EOFT (D 6795)

Reporting Data	
Number of Labs	5

NUMBER OF TESTS REPORTED  
BY LAB AND REPORT PERIOD



11:12:08 03MAY2017

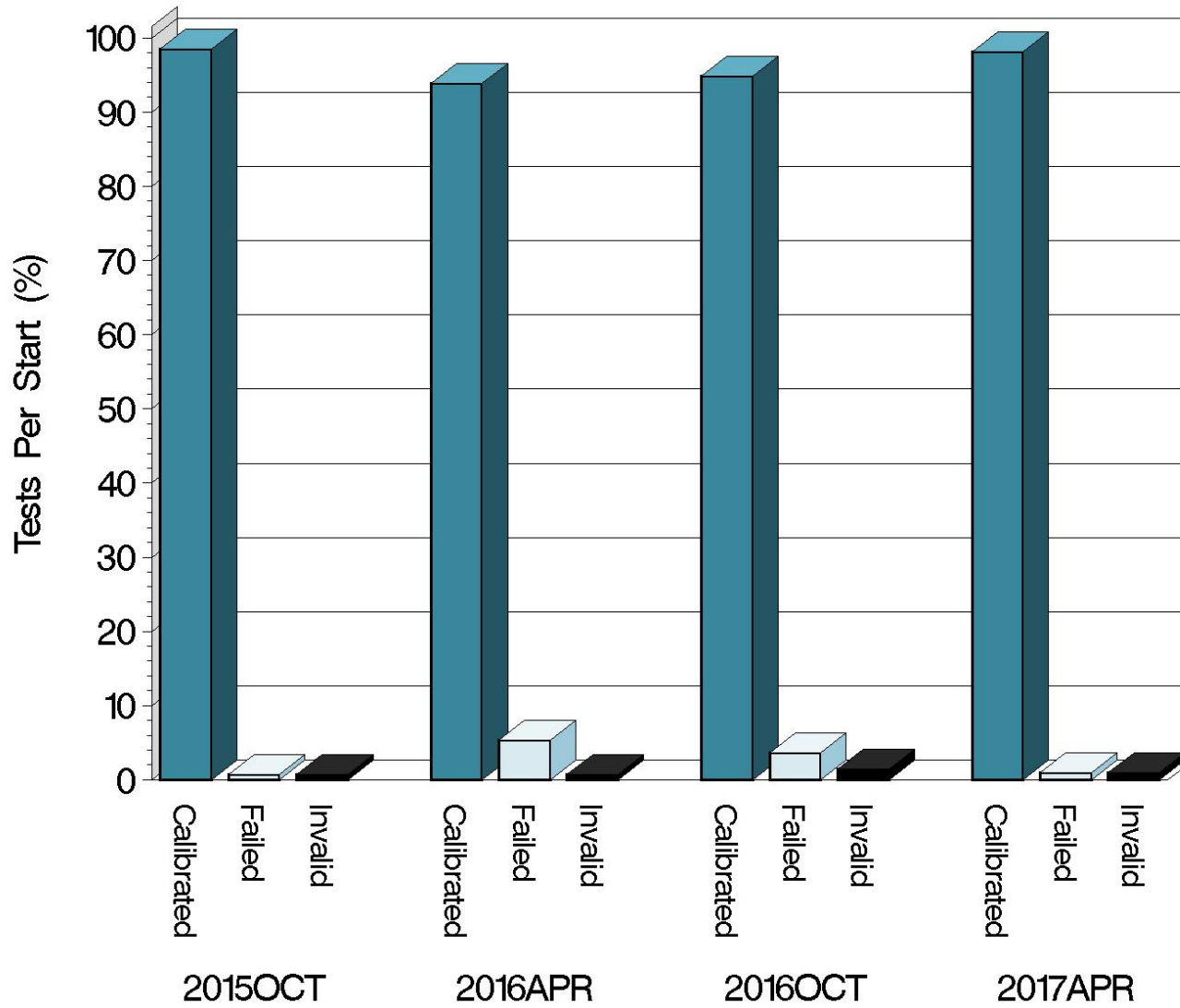
# EOFT (D 6795)

## Test Distribution by Oil and Validity

				Totals	
		78-2	79	This Period	Last Period
Accepted for Calibration	AC	0	107	107	130
Failed Acceptance Criteria	OC	0	1	1	5
Operationally Invalid (lab)	LC	0	0	0	0
Aborted Calibration	XC	0	1	1	2
Accepted for Target Generation	NI	0	0	0	0
Invalid Target Generation	LI	0	0	0	0
<b>Total</b>		<b>0</b>	<b>109</b>	<b>109</b>	<b>137</b>

# EOFT (D 6795)

## CALIBRATION ATTEMPT SUMMARY



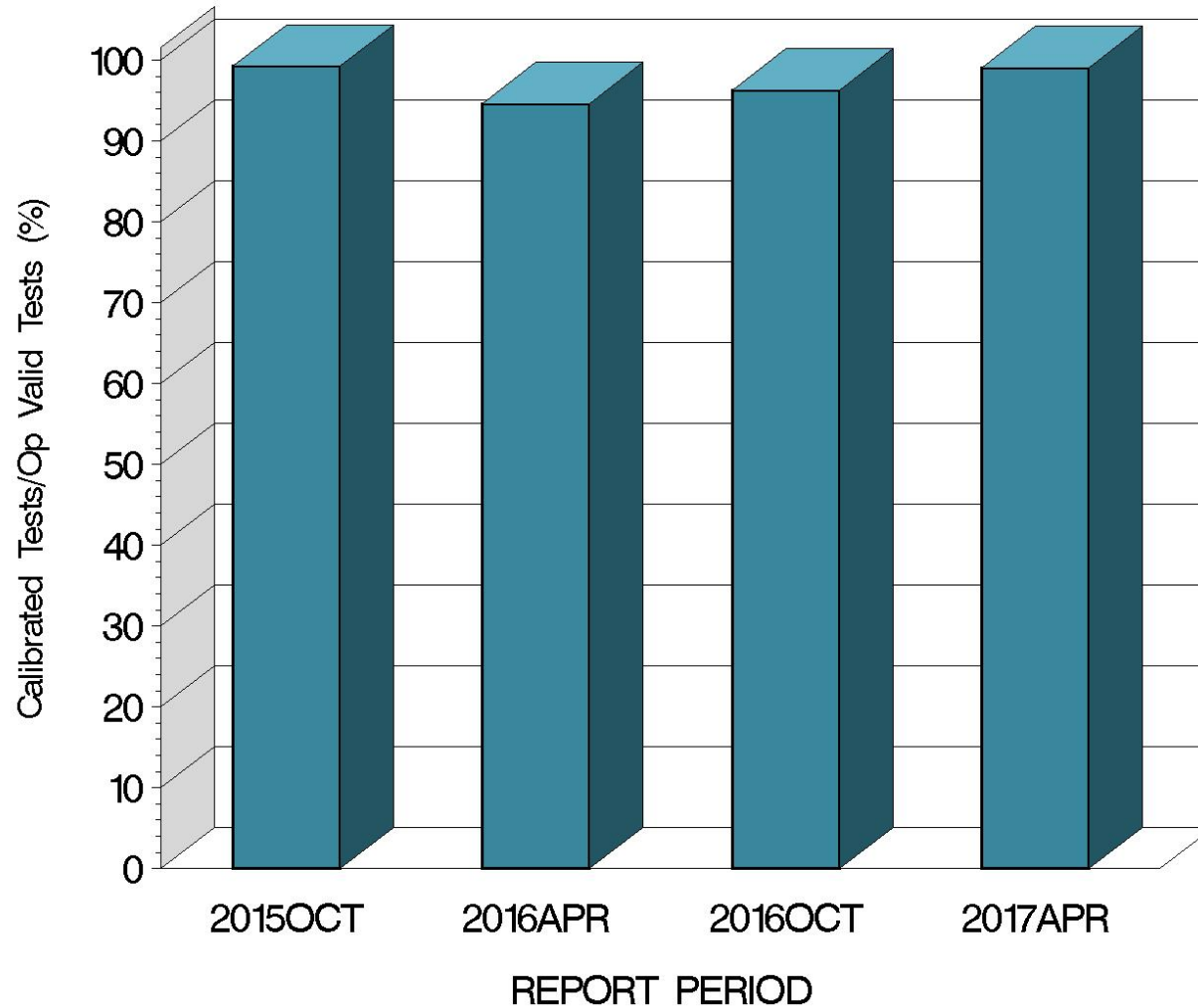
Resolution

Report Period

11:12:08 03MAY2017

# EOFT (D 6795)

OPERATIONALLY VALID TESTS  
MEETING ACCEPTANCE CRITERIA



11:12:08 03MAY2017

# EOFT (D 6795)

## CAUSES FOR LOST TESTS

		Oil	Validity			Loss Rate		
Lab	Cause	79	LC	RC	XC	Lost	Starts	%
B	Computer Failure	1	0	0	1	1	23	4.3
	Lost	1	0	0	1			
	Starts	109	109	109	109			
	%	0.9	0	0	0.9			

Lost tests are calibration attempts that were either aborted or operationally invalid

## EOFT (D 6795)

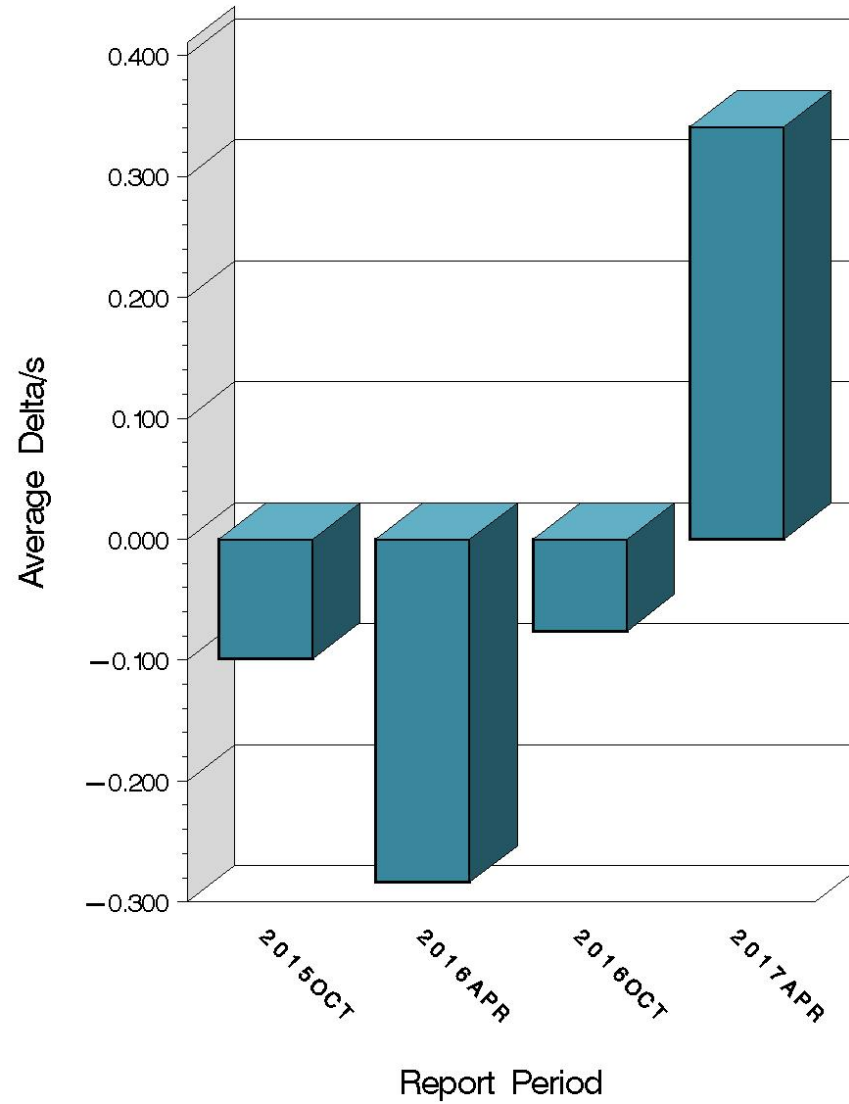
Average $\Delta/s$ By Laboratory		
Lab	n	CIFAYI
A	30	-0.153
B	22	0.782
G	44	0.734
I	11	-0.726
L	1	-0.075
Industry	108	0.341

Individual test results can be found on the TMC Web Page at the following link:

<ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoft/data/>

# EOFT (D 6795)

AVERAGE DELTA/S



11:12:08 03MAY2017



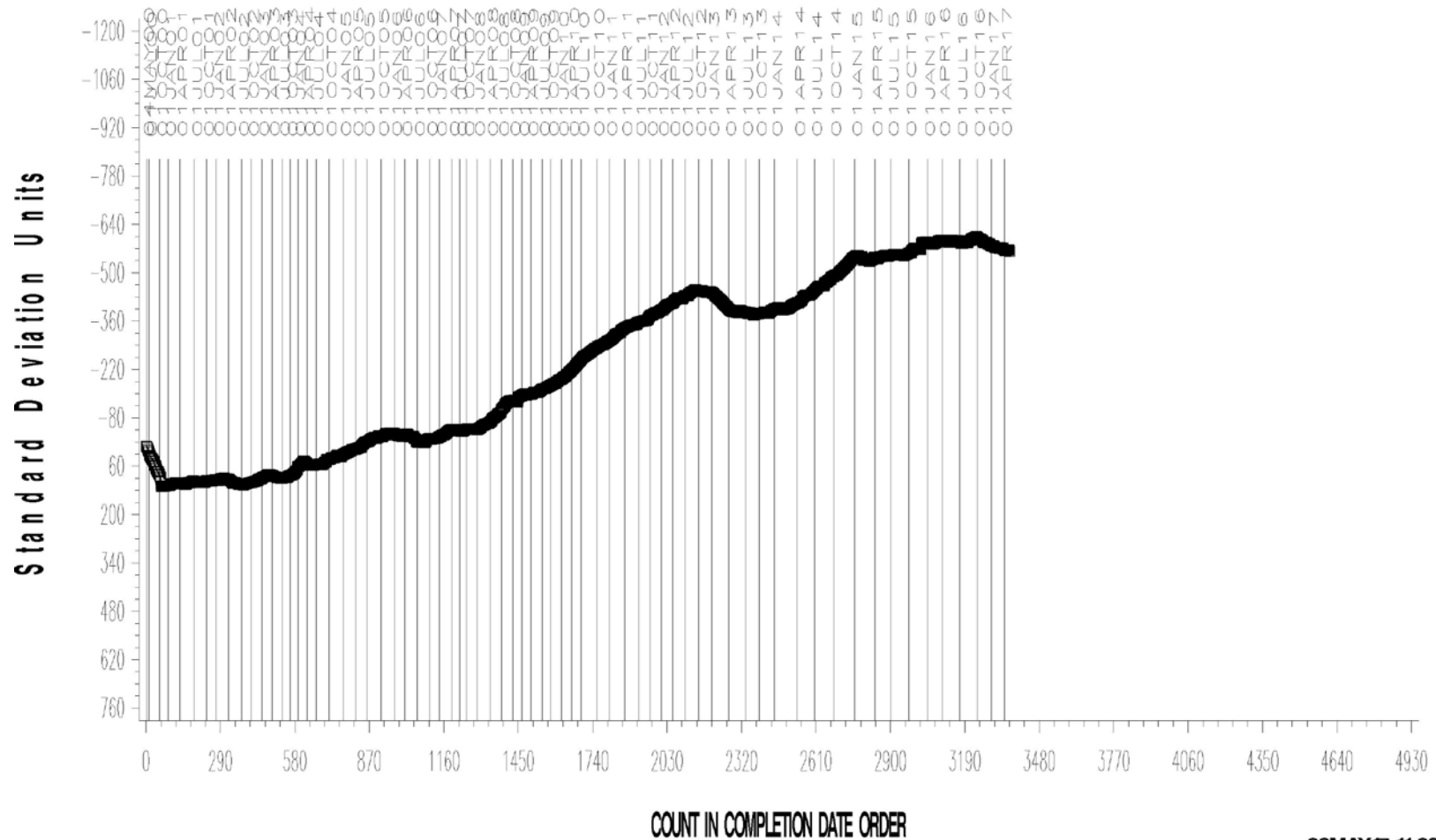
# EOFT (D 6795)

EOFT INDUSTRY OPERATIONALLY VALID DATA



20 – 25 ML CHANGE IN FLOWRATE AVERAGE (%)

CUSUM Severity Analysis

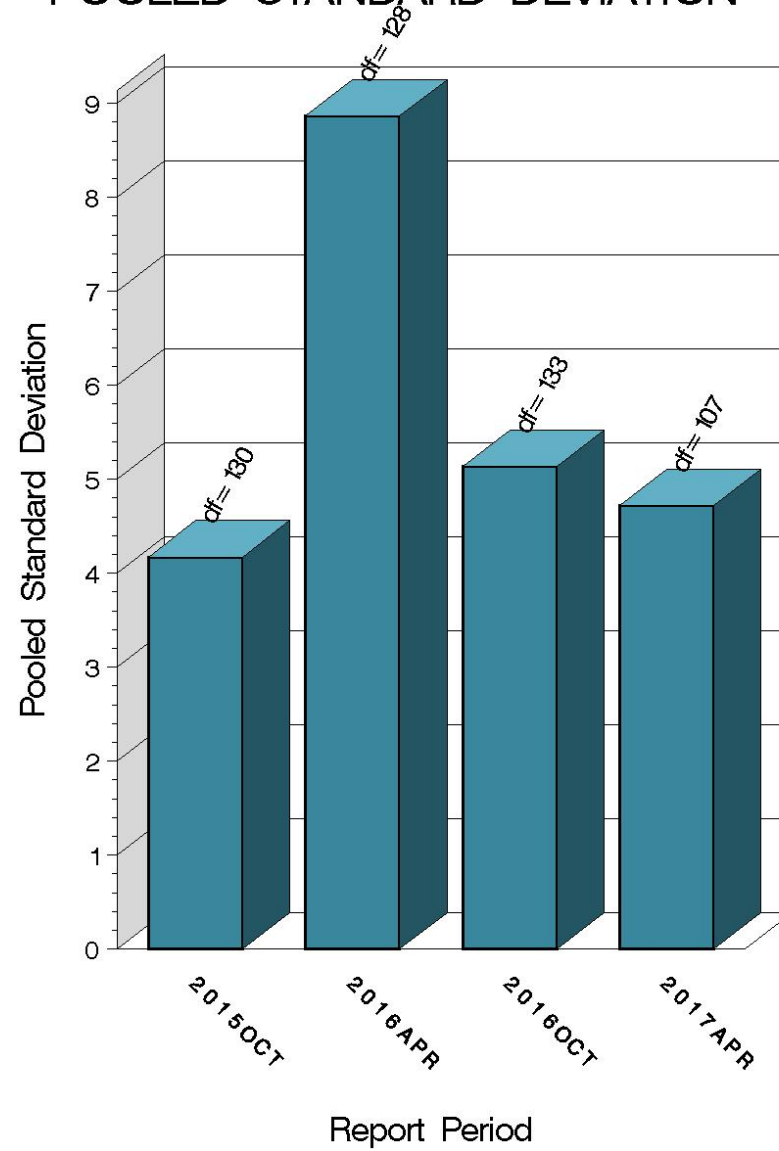


03MAY17:11:08



# EOFT (D 6795)

## POOLED STANDARD DEVIATION



11:12:08 03MAY2017

# EOFT (D 6795)

## SUMMARY OF SEVERITY & PRECISION

### Severity

Over the course of this report period, CIFA severity, as measured by CUSUM plotting, was very slightly severe for the period, and has reversed the mild trend that has existed for several years in the test.

### Precision

Pooled  $s$  for this period is 4.72.

Precision, as measured by pooled standard deviation, has improved slightly compared to last period, but is still comparable to historical performance.

# EOFT (D 6795)

## INFORMATION LETTERS

No Information Letters were issued this period.

# EOFT (D 6795)

## STATUS OF REFERENCE OIL SUPPLY

Oil	Samples @ Labs	@ TMC	
		Samples (290 mL)	Gallons
79	97	10,603	816.5
Total	97	10,603	816.5

Reference oil 78-2 cannot be re-blended. The TMC has procured a replacement oil, called reference oil 79, which has been introduced into EOFT.