



## Test Monitoring Center

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

MEMORANDUM: 19-019

DATE: April 24, 2019

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

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

SUBJECT: EOFT Testing from October 1, 2018 through March 31, 2019

A total of 144 EOFT tests were reported to the Test Monitoring Center during the report period from October 1, 2018 through March 31, 2019.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0419.doc/mem19-019.mtk.doc

cc: F. M. Farber

J. A. Clark

EOFT Surveillance Panel

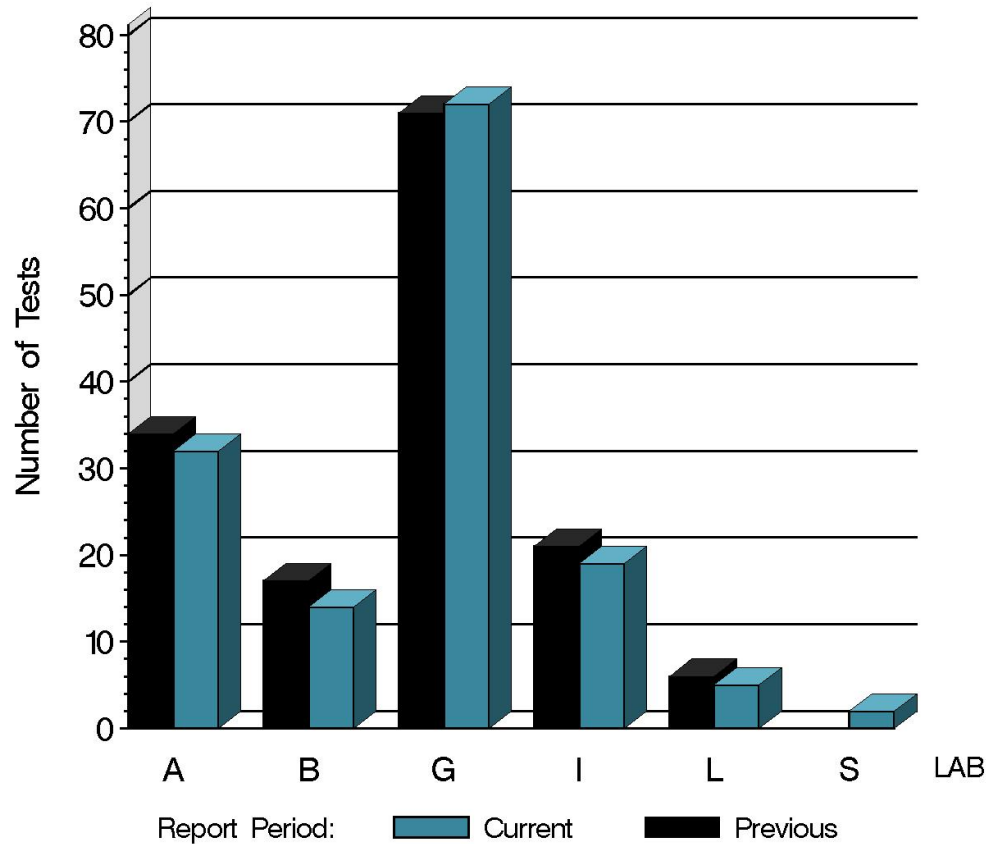
<http://www.astmtmc.cmu.edu/ftp/docs/bench/eoft/semiannualreports/eoft-04-2019.pdf>

Distribution: email

# EOFT (D 6795)

	Reporting Data
Number of Labs	6

NUMBER OF TESTS REPORTED  
BY LAB AND REPORT PERIOD



92313 24APR2019

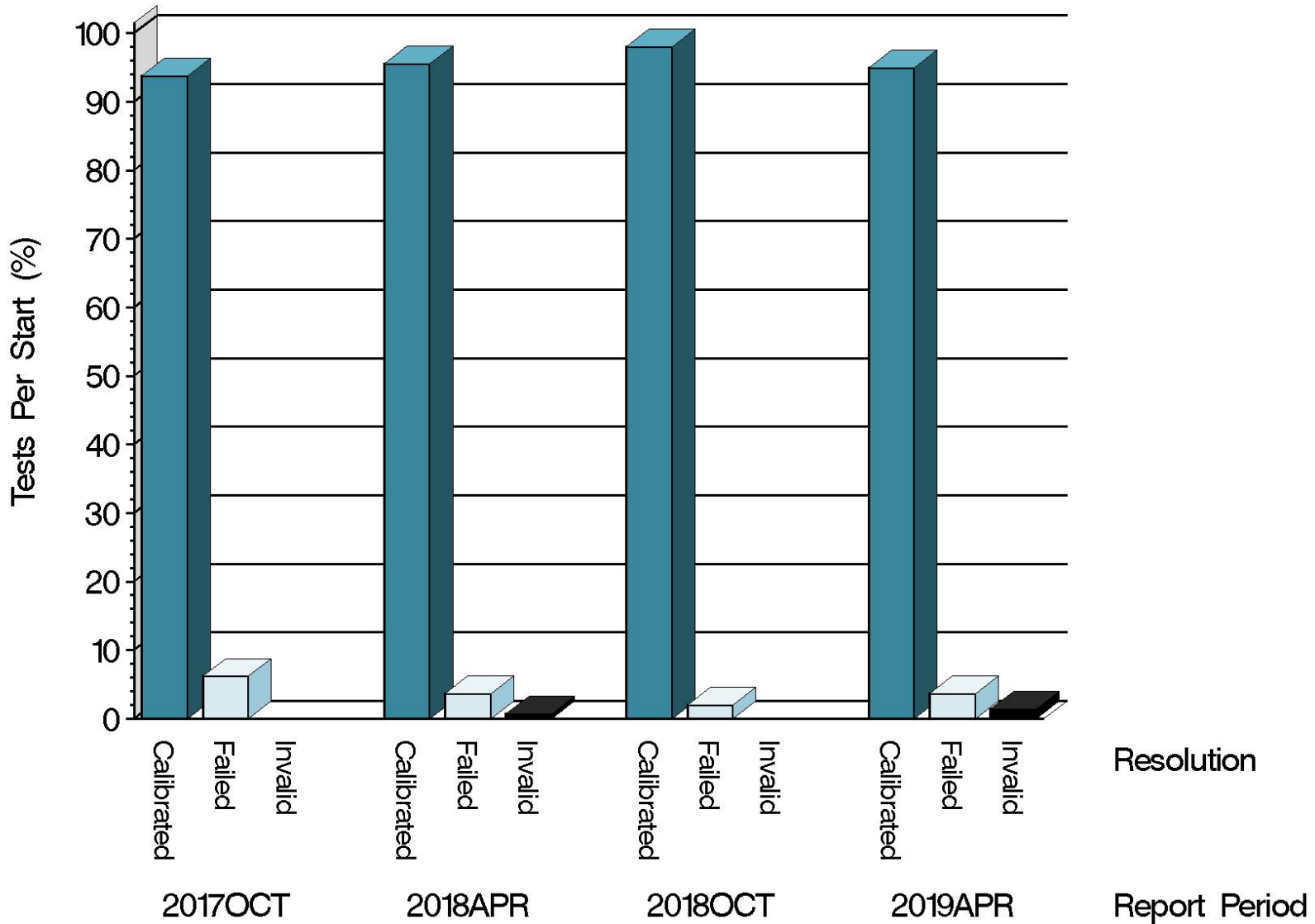
# EOFT (D 6795)

## Test Distribution by Oil and Validity

			Totals	
79			This Period	Last Period
Accepted for Calibration	AC	131	131	146
Failed Acceptance Criteria	OC	5	5	3
Operationally Invalid (lab)	LC	0	0	0
Aborted Calibration	XC	2	2	0
Acceptable Shakedown	NN	4	4	0
Unacceptable Shakedown	MN	1	1	0
Invalid Shakedown	LN	1	1	0
<b>Total</b>		<b>144</b>	<b>144</b>	<b>149</b>

# EOFT (D 6795)

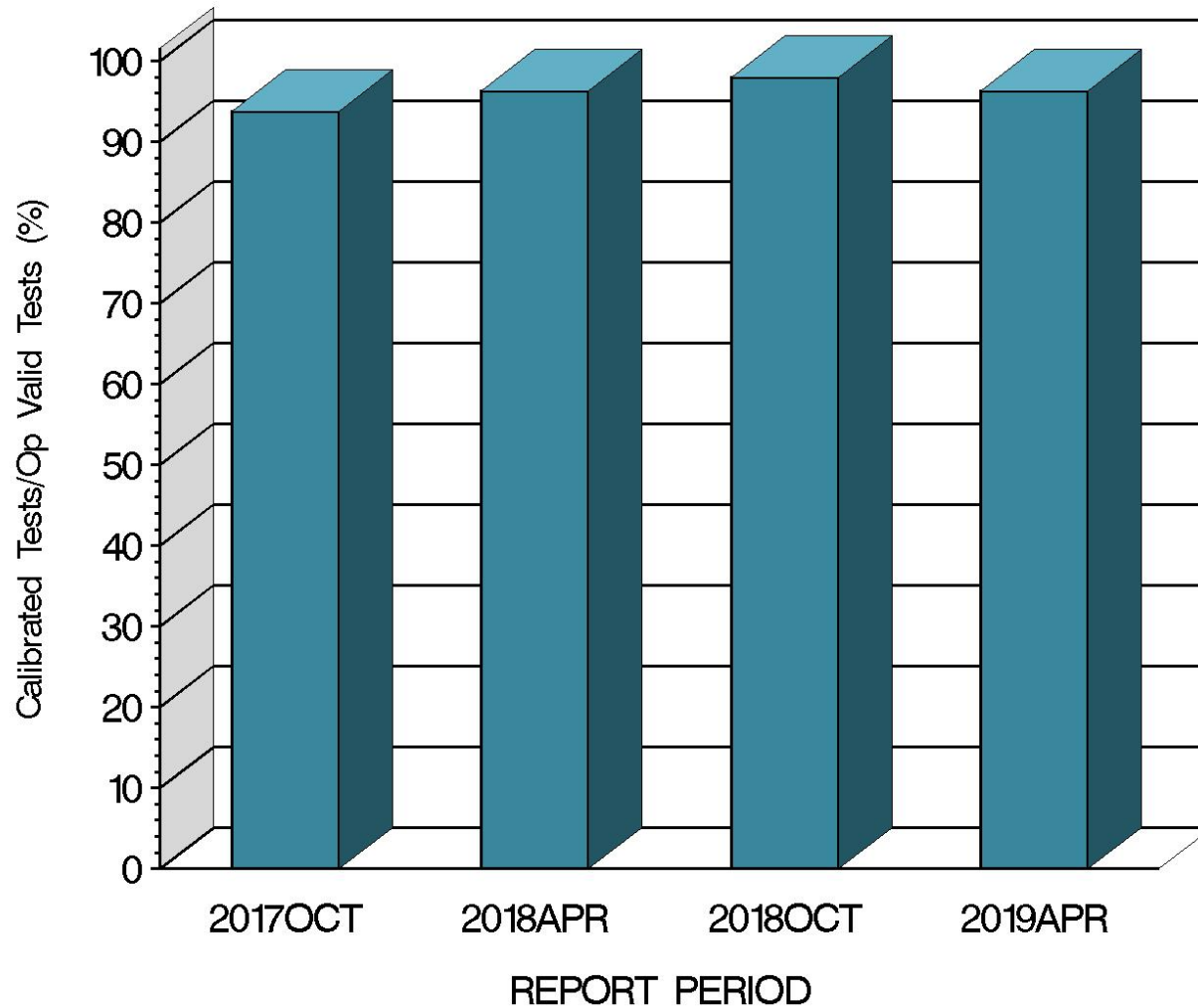
## CALIBRATION ATTEMPT SUMMARY



9:23:34 25APR2019

# EOFT (D 6795)

OPERATIONALLY VALID TESTS  
MEETING ACCEPTANCE CRITERIA



9:23:13 24APR2019

# EOFT (D 6795)

## CAUSES FOR LOST TESTS

		Oil	Validity			Loss Rate		
Lab	Cause	79	LC	RC	XC	Lost	Starts	%
G	Sample Prep Error	2	0	0	2	2	72	2.8
	Lost	2	0	0	2			
	Starts	136	136	136	136			
	%	1.5	0	0	1.5			

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

## EOFT (D 6795)

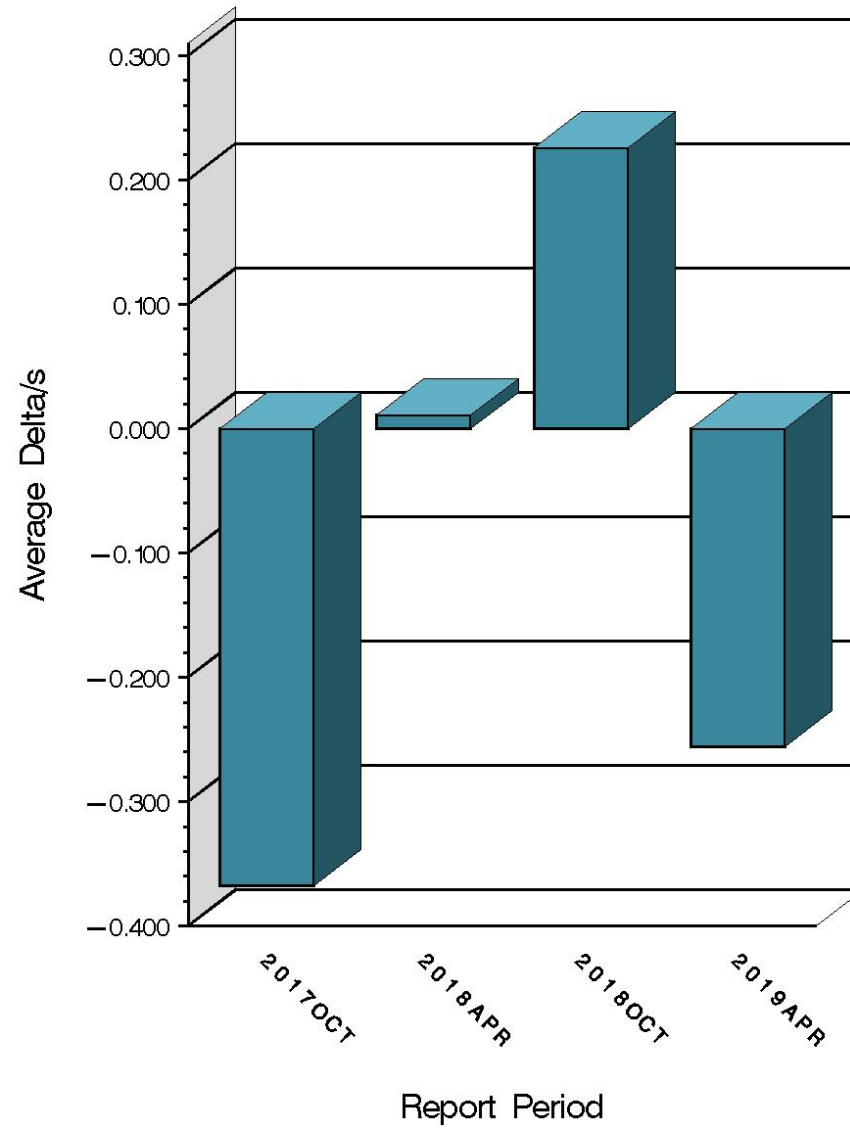
Average $\Delta$ /s By Laboratory		
Lab	n	CIFAYI
A	25	-0.610
B	14	-0.094
G	71	-0.199
I	19	0.310
L	5	-0.212
S	2	-4.470
Industry	136	-0.256

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

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

# EOFT (D 6795)

AVERAGE DELTA/S



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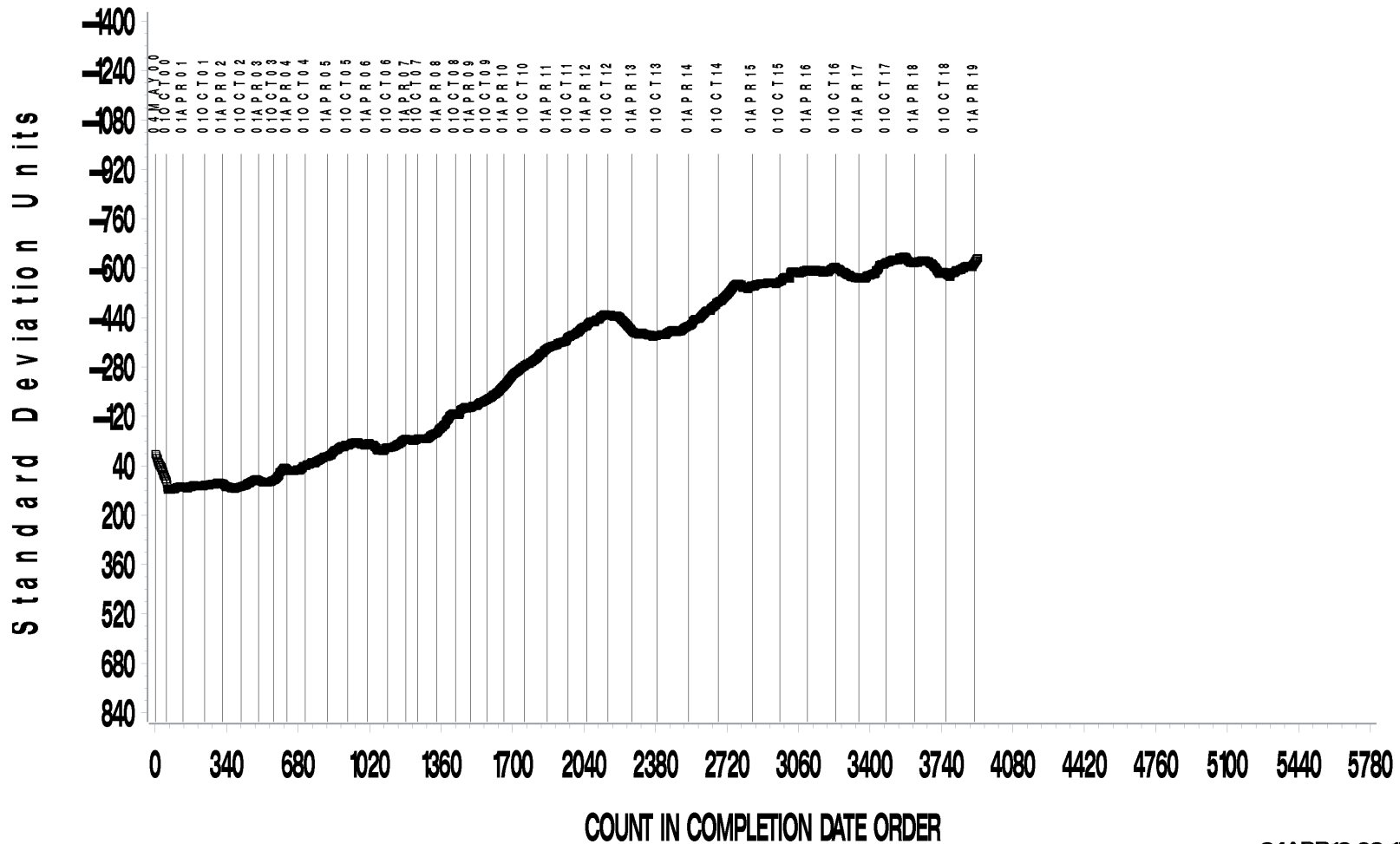
# EOFT (D 6795)

EOFT INDUSTRY OPERATIONALLY VALID DATA

20 —25 ML CHANGE IN FLOWRATE AVERAGE (%)



CUSUM Severity Analysis

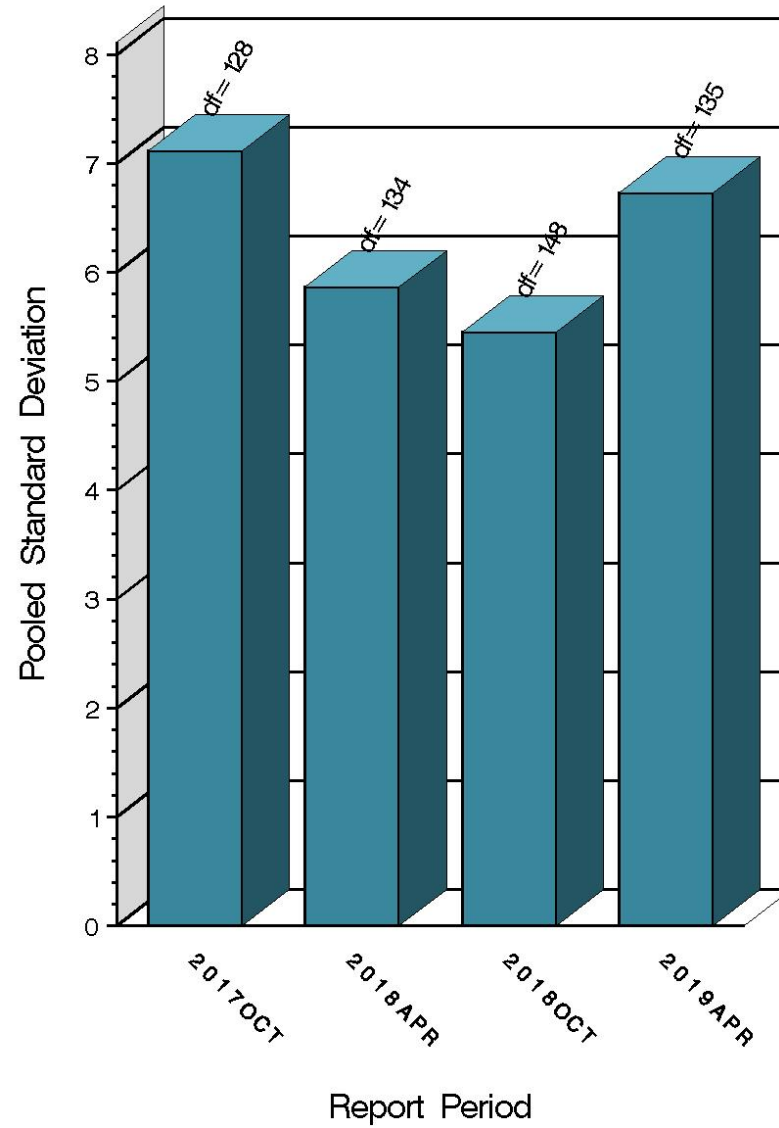


24APR19:09:17



# EOFT (D 6795)

POOLED STANDARD DEVIATION



9:23:13 24APR2019

# EOFT (D 6795)

## SUMMARY OF SEVERITY & PRECISION

### Severity

Over the course of this report period, CIFA severity, as measured by CUSUM plotting, is slightly severe for the period, with an average  $\Delta/s$  value of -0.256.

### Precision

Pooled  $s$  for this period is 6.73.

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

EOFT Information Letter 18-1, Sequence No. 1, dated December 20, 2018.

- Refinements to the Test Method

# EOFT (D 6795)

## STATUS OF REFERENCE OIL SUPPLY

Oil	Samples @ Labs	@ TMC	
		Samples (290 mL)	Gallons
79	90	7,820	602.2
Total	90	7,820	602.2