



Test Monitoring Center

@ Carnegie Mellon University
6555 Penn Avenue, Pittsburgh, PA 15206, USA

<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 18-040

DATE: November 8, 2018

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

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

SUBJECT: EOWT Testing from April 1, 2018 through September 30, 2018

A total of 1,131 EOWT tests were reported to the Test Monitoring Center during the report period from April 1, 2018 through September 30, 2018.

Please find attached a summary of testing activity this period.

MTK/mtk/astm1018.doc/mem18-040.mtk.doc

cc: F. M. Farber

J. A. Clark

EOWT Surveillance Panel

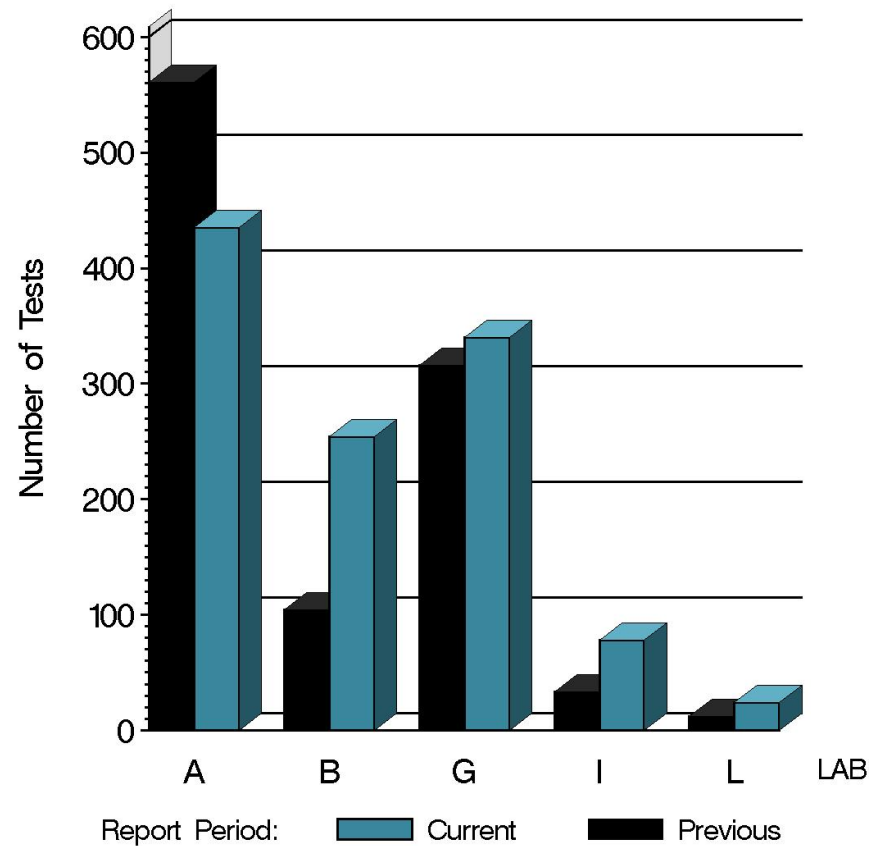
<http://www.astmtmc.cmu.edu/docs/bench/eowt/semiannualreports/eowt-10-2018.pdf>

Distribution: email

EOWT (D 6794)

	Reporting Data
Number of Labs	5

NUMBER OF TESTS REPORTED
BY LAB AND REPORT PERIOD



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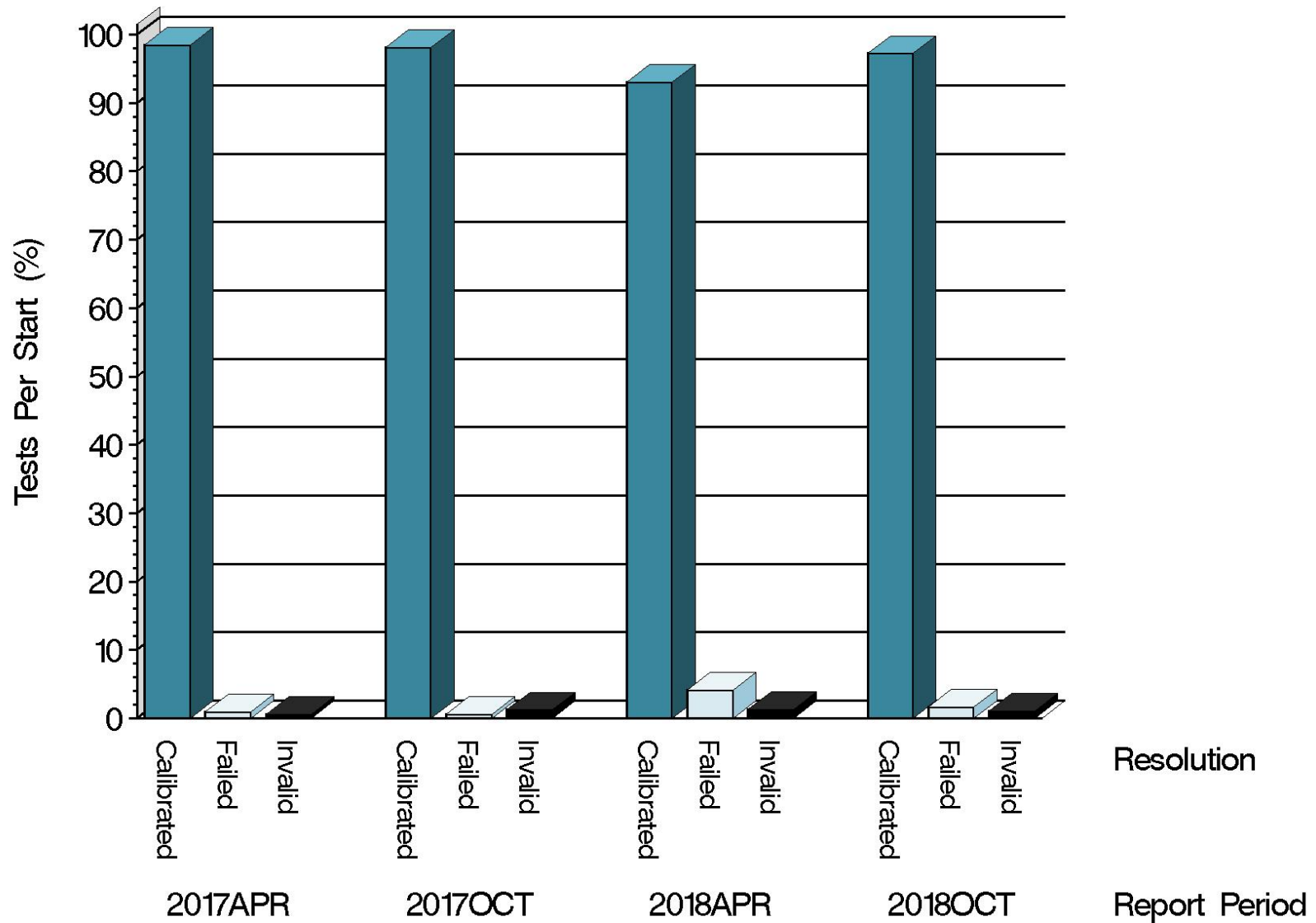
EOWT (D 6794)

Test Distribution by Oil and Validity

		By Oil				By Treat Level				Totals	
		77-2	77-3	78-2	79	0.6	1.0	2.0	3.0	This Period	Last Period
Accepted for Calibration	AC	0	534	0	566	275	276	275	274	1100	953
Rejected Tests	OC	0	15	0	4	4	3	6	6	19	42
Operationally Invalid (lab)	LC	0	0	0	0	0	0	0	0	0	0
Operationally Invalid (lab/TMC)	RC	0	0	0	0	0	0	0	0	0	0
Aborted Calibration	XC	0	4	0	8	3	3	3	3	12	13
Unusable Calibration	MC	0	0	0	0	0	0	0	0	0	0
Acceptable Donated Tests	NI	0	0	0	0	0	0	0	0	0	0
Unacceptable Donated Tests	MI	0	0	0	0	0	0	0	0	0	0
Acceptable Shakedown	AS	0	0	0	0	0	0	0	0	0	15
Unacceptable Shakedown	OS	0	0	0	0	0	0	0	0	0	1
Total		0	553	0	578	282	282	284	283	1131	1024

EOWT (D 6794)

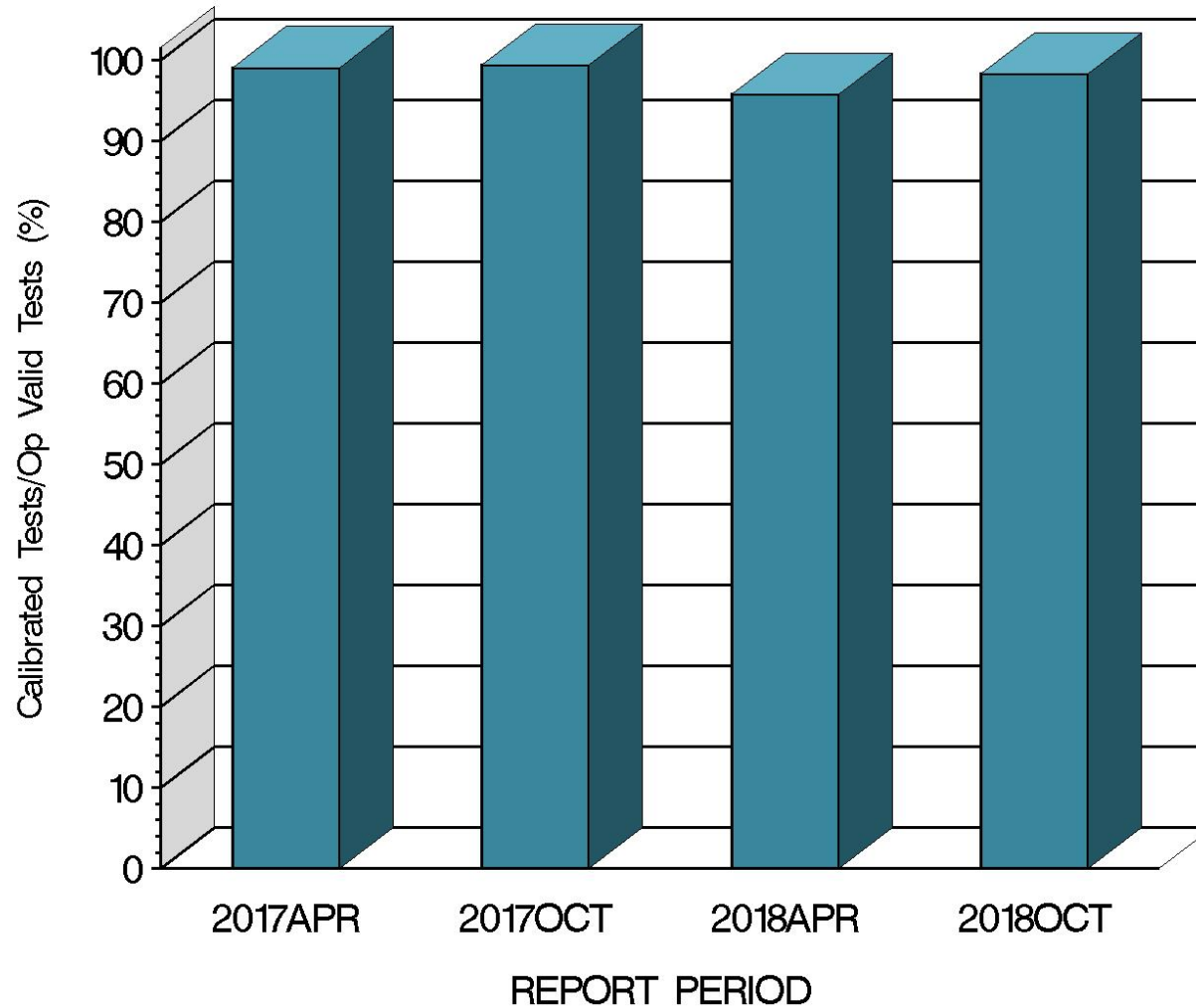
CALIBRATION ATTEMPT SUMMARY



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EOWT (D 6794)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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EOWT (D 6794)

CAUSES FOR LOST TESTS

Lab	Cause	Oil				Validity			Loss Rate		
		77-2	77-3	78-2	79	LC	RC/ MC	XC	Lost	Starts	%
B	Operator Error	0	4	0	4	0	0	8	8	254	3.1
G	Sample Prep Error	0	0	0	4	0	0	4	4	340	1.2
	Lost	0	4	0	8	0	0	12			
	Starts	0	553	0	578	1131	1131	1131			
	%	0	0.7	0	1.4	0	0	1.1			

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

EOWT (D 6794)

Average Δ/s By Laboratory			
Treat Level	Lab	n	CFAYI
0.6	A	108	-0.551
	B	62	-0.191
	G	84	0.703
	I	19	1.004
	L	6	-0.825
	Industry	279	0.006
1.0	A	108	-0.460
	B	62	-0.393
	G	84	0.735
	I	19	0.692
	L	6	-1.334
	Industry	279	-0.026
2.0	A	109	-0.154
	B	61	-0.269
	G	84	0.867
	I	21	1.134
	L	6	0.074
	Industry	281	0.227
3.0	A	110	-0.337
	B	61	-0.520
	G	84	0.655
	I	19	0.535
	L	6	-0.397
	Industry	280	-0.022

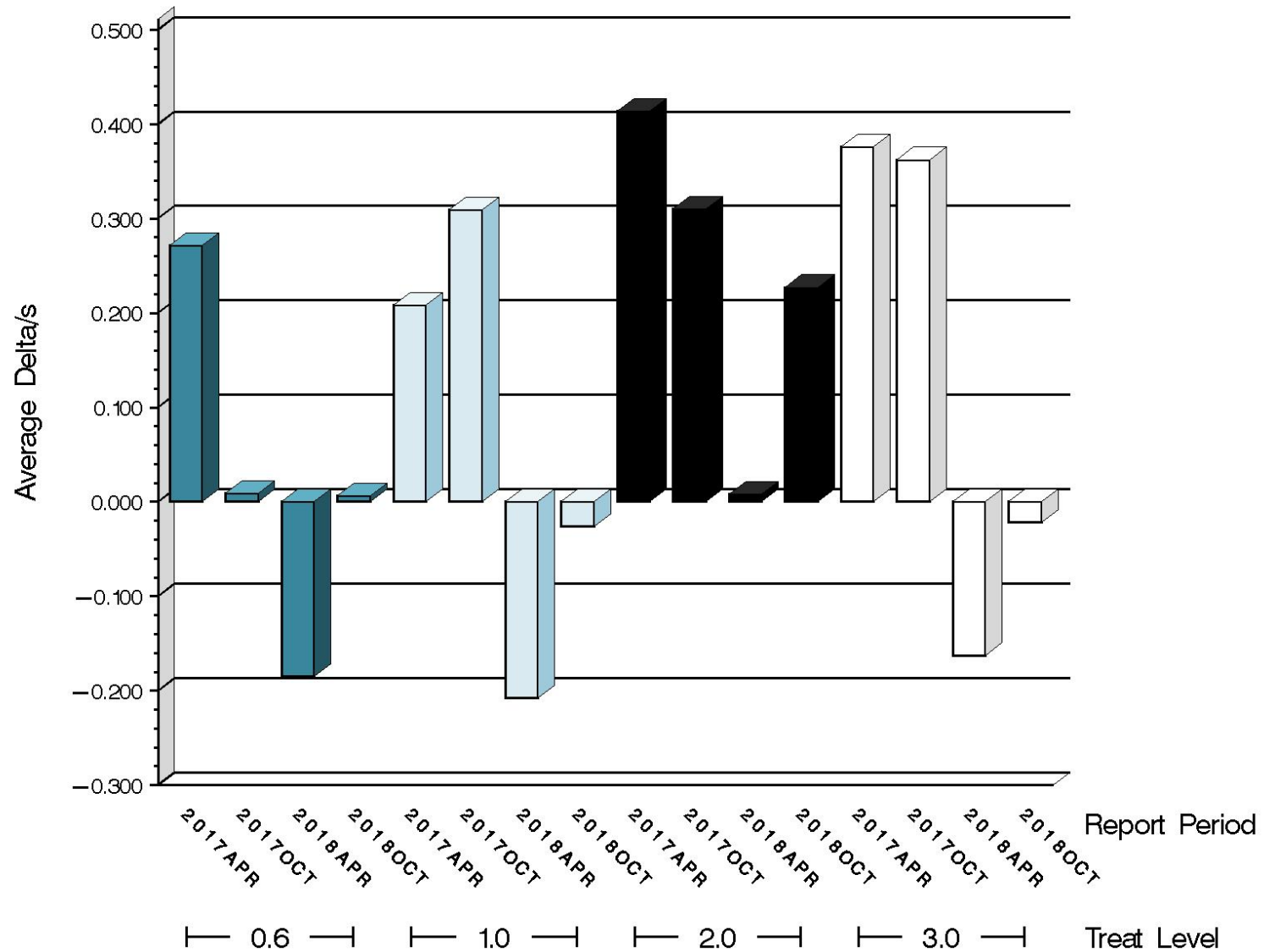
EOWT (D 6794)

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

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

EOWT (D 6794)

AVERAGE DELTA/S

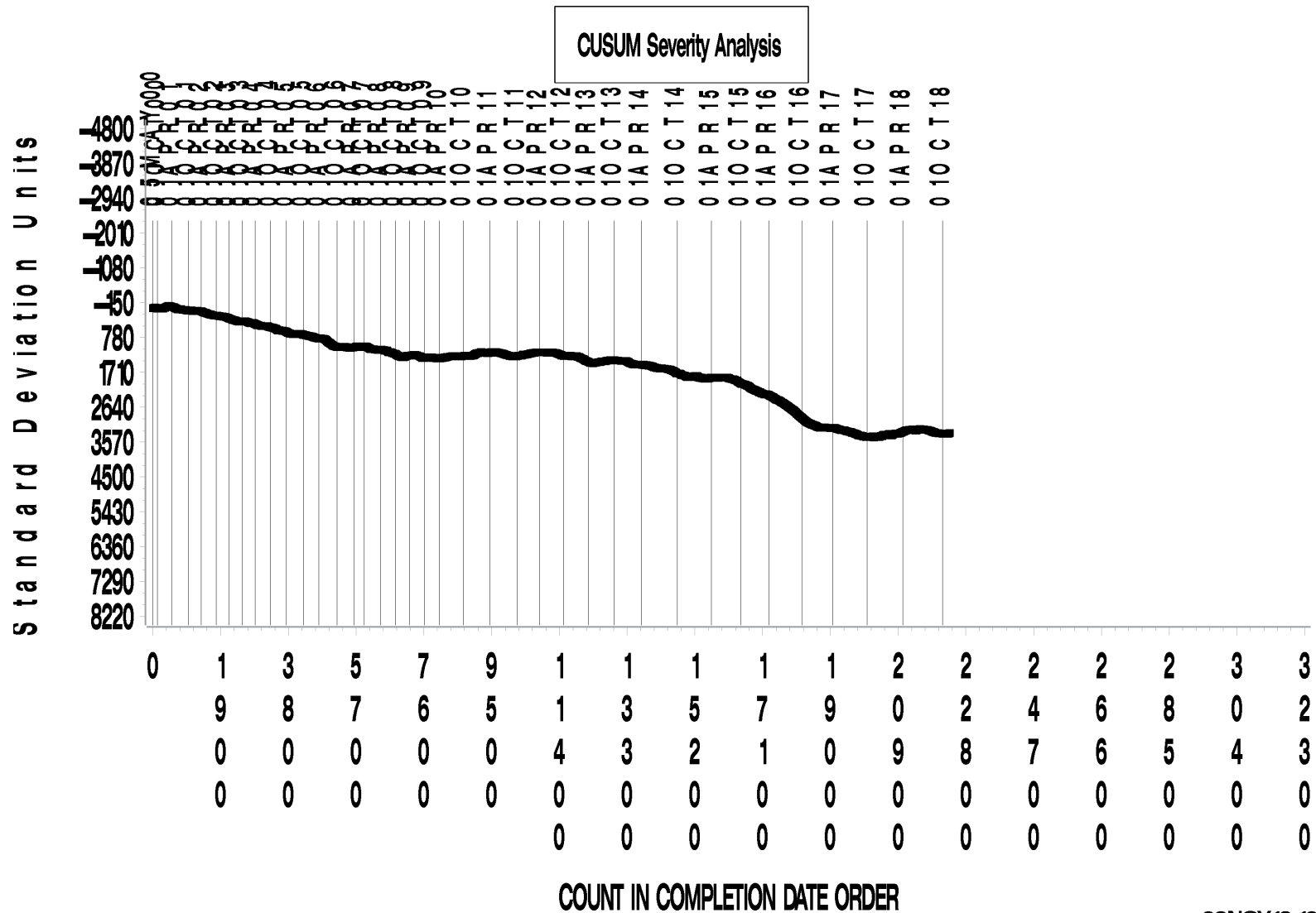


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EOWT (D 6794)

EOWT INDUSTRY OPERATIONALLY VALID DATA

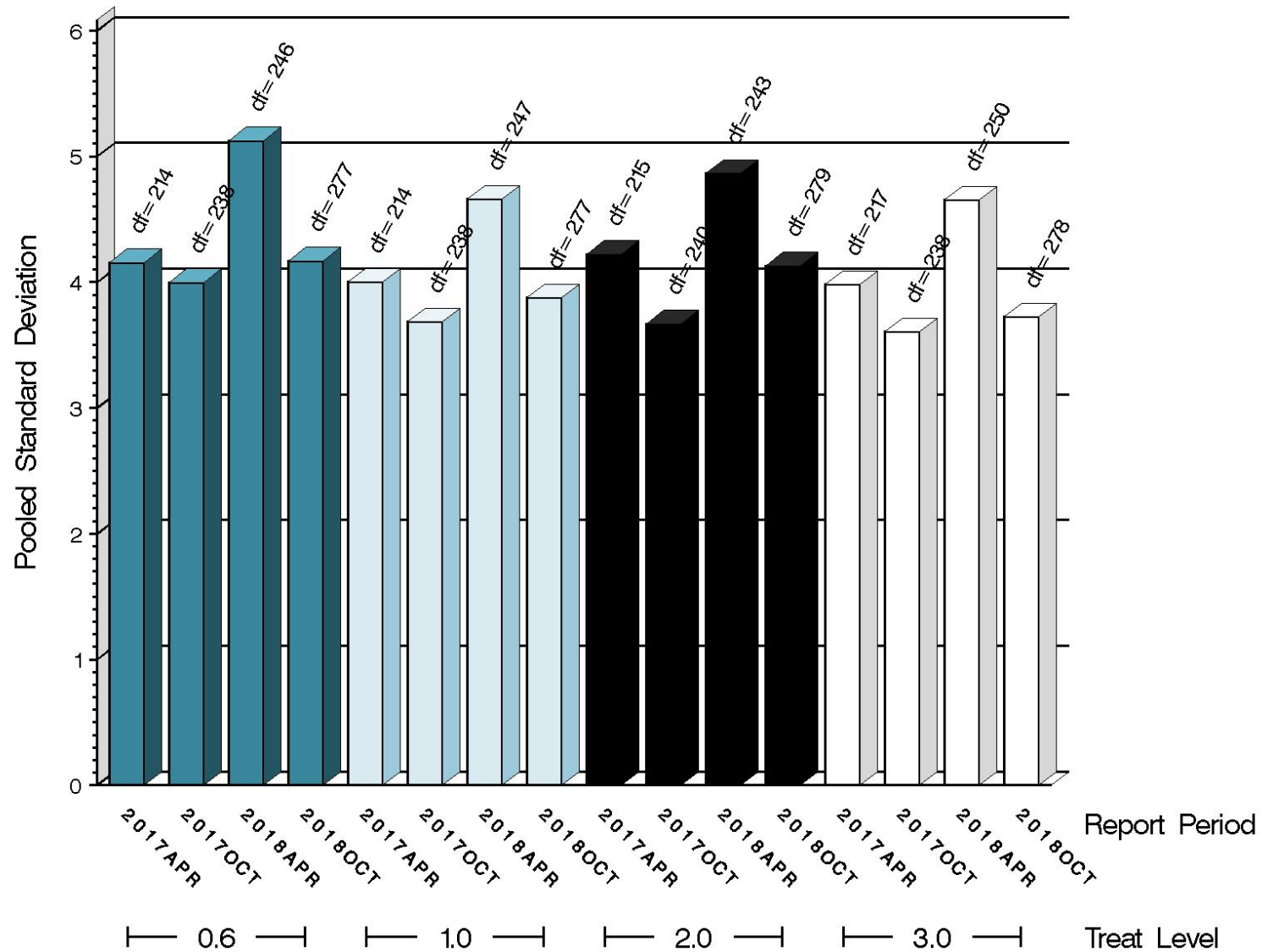
20 —25 ML CHANGE IN FLOWRATE AVG.



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EOWT (D 6794)

POOLED STANDARD DEVIATION



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EOWT (D 6794)

SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, CIFA severity, as measured by CUSUM plotting, is slightly mild.

Precision

Pooled s values for this period are 4.17 (0.6%), 3.88 (1.0%), 4.13 (2.0%), and 3.72 (3.0%).

Precision, as measured by pooled standard deviation, is slightly better than previous periods, but still comparable to historical performance.

EOWT (D 6794)

INFORMATION LETTERS

No EOWT Information Letters were issued this period.

EOWT (D 6794)

STATUS OF REFERENCE OIL SUPPLY

Oil	Samples @ Labs	@ TMC	
		Samples (290 mL)	Gallons
77-2	1	0	0.0
77-3	99	9,695	746.5
78-2	0	0	0.0
79	93	8,367	644.3
Total	193	18,062	1,390.8