

Test Monitoring Center

@ Carnegie Mellon University 6555 Penn Avenue, Pittsburgh, PA 15206, USA http://astmtmc.cmu.edu 412-365-1000

MEMORANDUM:	19-020
DATE:	April 26, 2019
TO:	Yong-Li McFarland, Chairwoman, Engine Oil Filterability Test Surveillance Panel
FROM:	Michael T. Kasimirsky Michael J. Resimisky
SUBJECT:	EOWT Testing from October 1, 2018 through March 31, 2019
A total of 965 EOV	WT toots were reported to the Test Monitoring Center during the rer

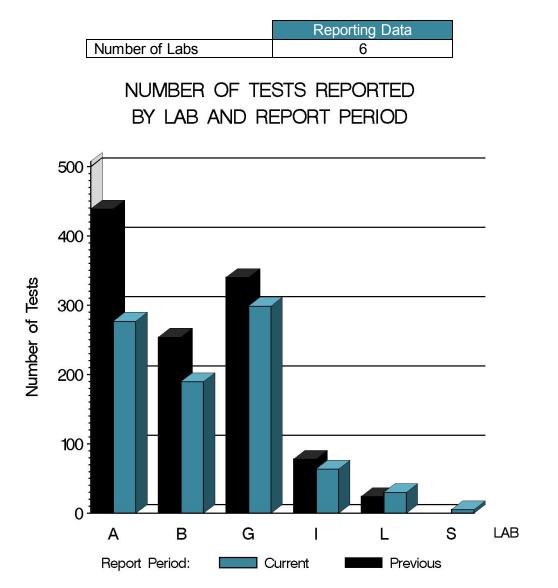
A total of 865 EOWT tests were reported to the Test Monitoring Center during the report period from October 1, 2018 through March 31, 2019.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0419.doc/mem19-020.mtk.doc

cc: F. M. Farber J. A. Clark EOWT Surveillance Panel <u>http://www.astmtmc.cmu.edu/docs/bench/eowt/semiannualreports/eowt-04-2019.pdf</u>

Distribution: email



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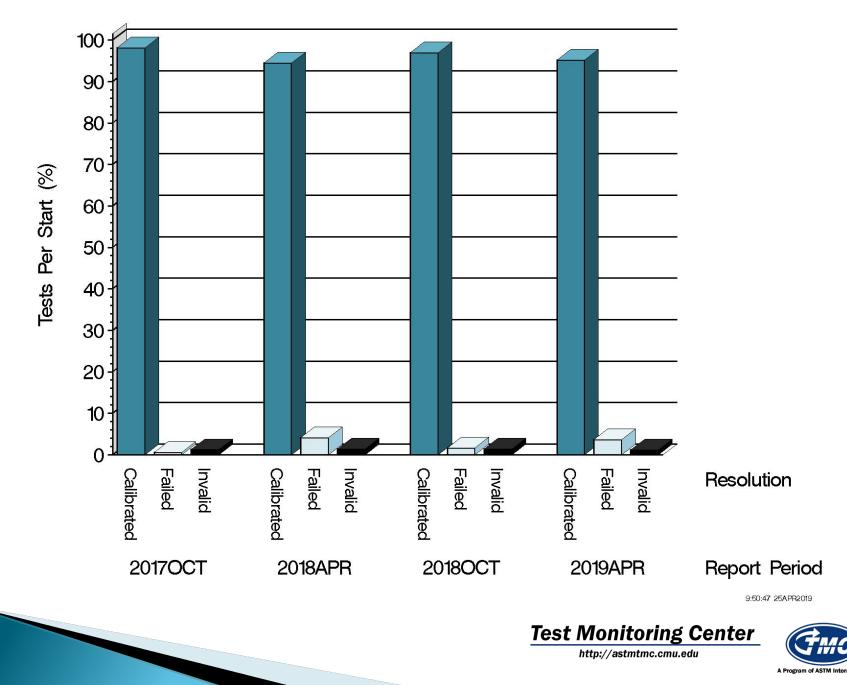
Test Distribution by Oil and Validity

		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	1	382	0	402	198	197	196	194	785	1100
Rejected Tests	OC	0	17	0	13	6	9	6	9	30	19
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	2	0	8	1	2	4	3	10	12
Acceptable Shakedown	NN	0	16	0	19	8	9	10	8	35	0
Unacceptable Shakedown	MN	0	0	0	5	2	1	0	2	5	0
Total		1	417	0	447	215	218	216	216	865	1131

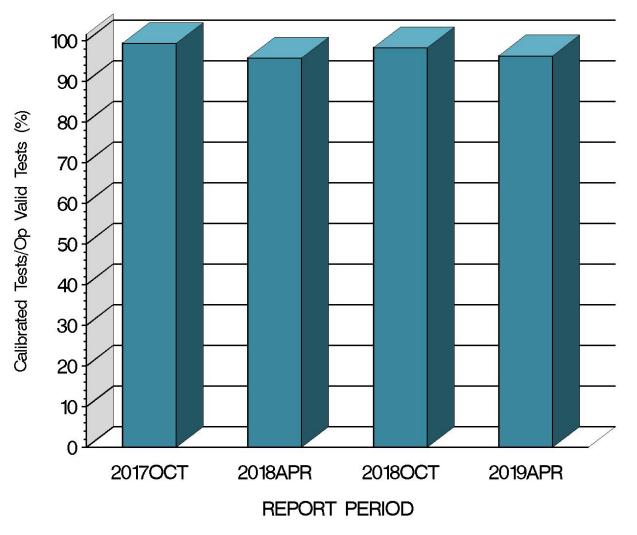




CALIBRATION ATTEMPT SUMMARY



OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



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CAUSES FOR LOST TESTS

				С)il		Validity			Loss Rate		
Lab	Cause		77-2	77-3	78-2	79	LC	RC/ MC	XC	Lost	Starts	%
Α	Sample Co	ontaminated	0	1	0	1	0	0	2	2	277	0.7
В	Mechanica	I Failure	0	0	0	1	0	0	1	1	190	0.5
G	Sample Pro	ep Error	0	1	0	6	0	0	7	7	299	2.3
	-	Lost	0	2	0	8	0	0	10			
		Starts	1	401	0	423	825	825	825			
		%	0	0.5	0	1.9	0	0	1.2			

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



Average	e Δ/s By Labo	oratory	
Treat Level	Lab	n	CFAYI
0.6	A	59	-0.717
	В	47	-0.323
	G	73	0.255
	I	16	1.236
	L	7	-1.693
	S	2	1.267
	Industry	204	-0.139
1.0	A	59	-0.382
	В	49	-0.251
	G	73	0.519
	I	16	1.720
	L	8	-0.815
	S	1	1.159
	Industry	206	0.123
2.0	A	58	-0.241
	В	47	-0.280
	G	73	0.543
	I	16	0.998
	L	7	-1.064
	S	1	1.343
	Industry	202	0.111
3.0	A	59	-0.370
	В	46	-0.219
	G	73	0.717
	I	16	1.183
	L	8	-1.722
	S	1	0.868
	Industry	203	0.131





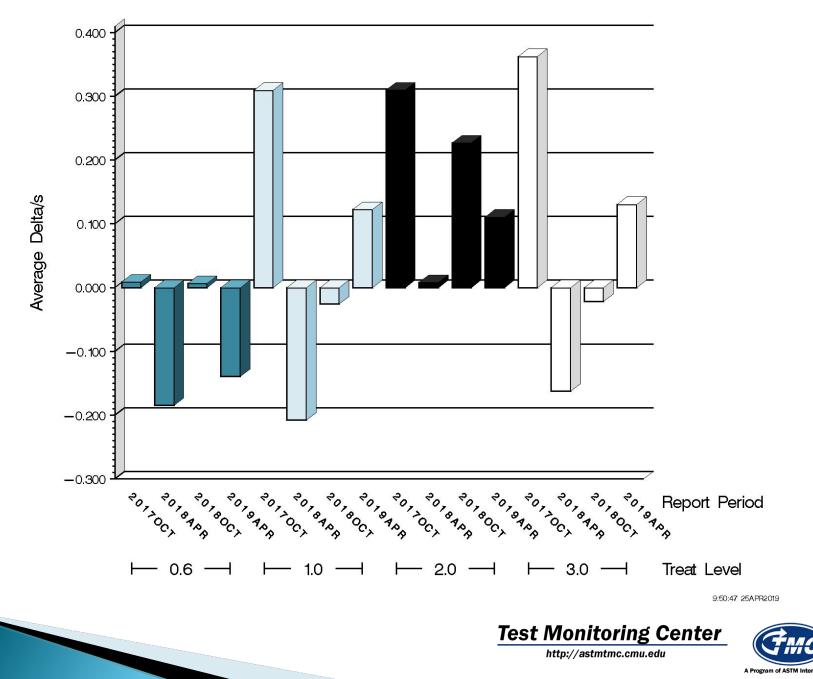
Individual test results can be found on the TMC Web Page at the following link:

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





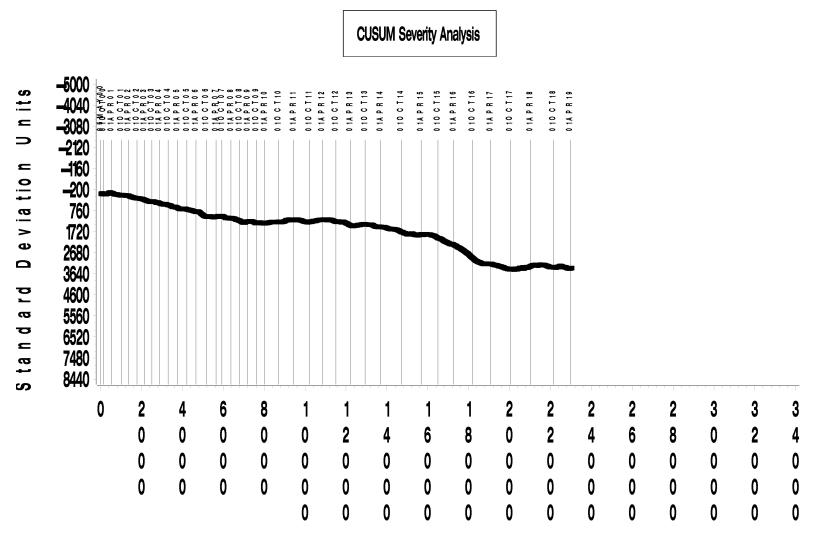
AVERAGE DELTA/S



EOWT INDUSTRY OPERATIONALLY VALID DATA



20 — 25 ML CHANGE IN FLOWRATE AVG.



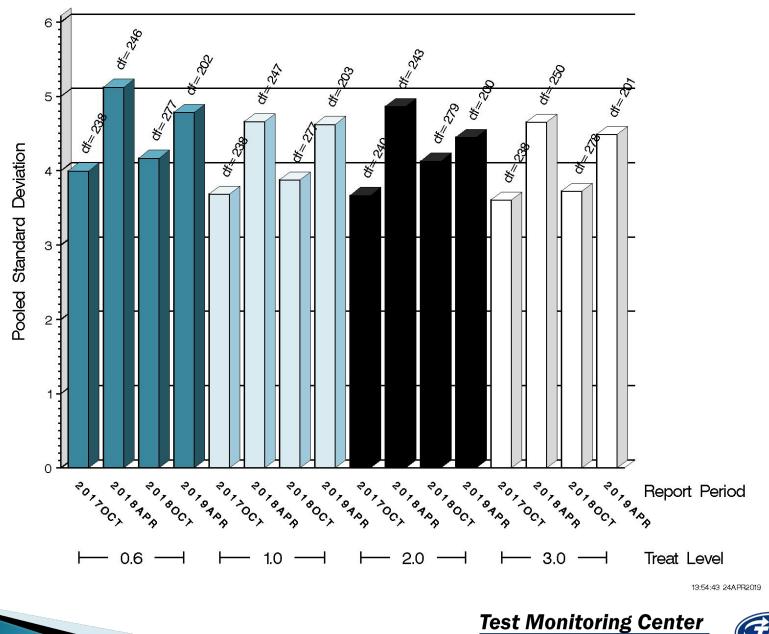
COUNT IN COMPLETION DATE ORDER

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POOLED STANDARD DEVIATION





http://astmtmc.cmu.edu

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 4.79 (0.6%), 4.62 (1.0%), 4.45 (2.0%), and 4.49 (3.0%).

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



INFORMATION LETTERS

No EOWT Information Letters were issued this period.





STATUS OF REFERENCE OIL SUPPLY

		@ TMC				
Oil	Samples @ Labs	Samples (290 mL)	Gallons			
77-2	0	0	0.0			
77-3	124	9,337	719.0			
78-2	0	0	0.0			
79	103	7,820	602.2			
Total	227	17,157	1,321.2			



