

#### **Test Monitoring Center**

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

MEMORANDUM:	18-003
DATE:	April 13, 2018
TO:	Angela Trader, Chairman, L-33-1 Surveillance Panel
FROM:	Dylan Beck
SUBJECT:	L-33-1 Testing from October 1, 2017 through March 31, 2018

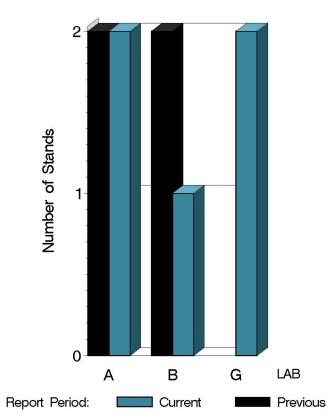
Attached is a summary of testing activity this period.

DJB/djb/mem18-003.djb.doc cc: Frank Farber Jeff Clark Scott Parke L-33-1 Surveillance Panel <u>http://www.astmtmc.cmu.edu/ftp/docs/gear/l331/semiannualreports/l331-04-2018.pdf</u>

Distribution: email

	Reporting Data	Calibrated on 3-31-18
Number of Labs	3	3
Number of Stands	5	5

BY-LAB STAND DISTRIBUTION



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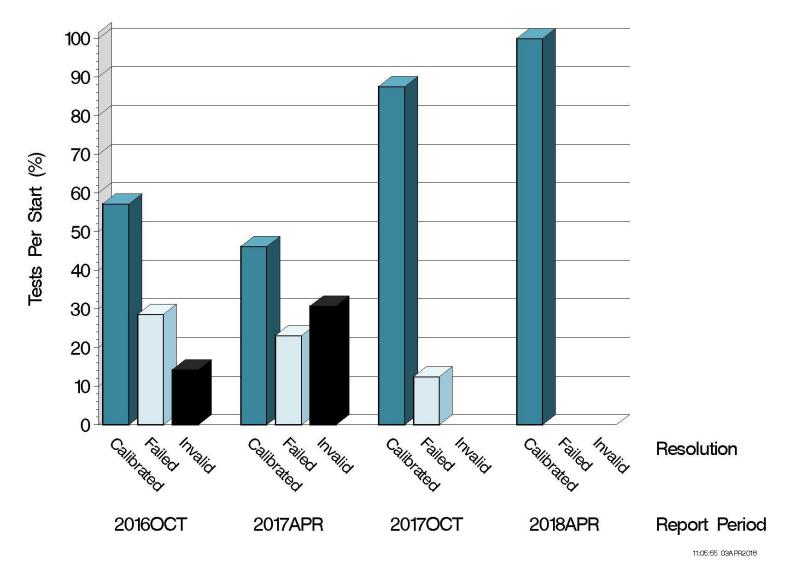
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#### **Test Distribution by Oil and Validity**

				Totals		
		123-2	155	155-1	Last Period	This Period
Accepted for calibration	AC	4	0	3	7	7
Rejected (Mild)	OC	0	0	0	1	0
Rejected (Severe)	OC	0	0	0	0	0
Rejected (Precision)	OC	0	0	0	0	0
Invalidated calibration	LC	0	0	0	0	0
Aborted	XC	0	0	0	0	0
Unacceptable info run	MI	0	0	0	0	0
Accepted information run	NI	1	0	0	0	1
Total		5	0	3	8	8



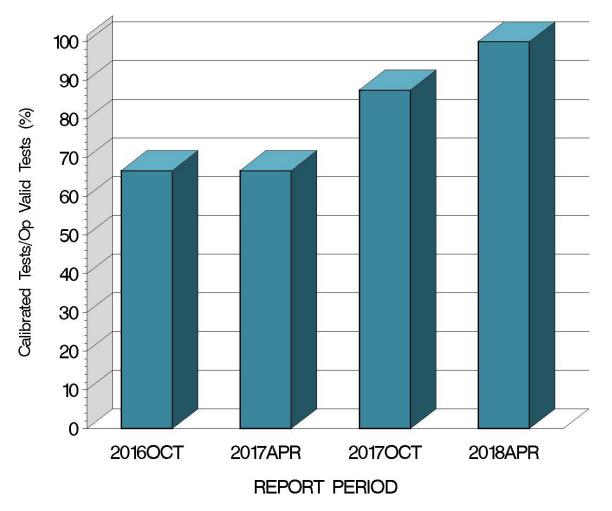
#### CALIBRATION ATTEMPT SUMMARY





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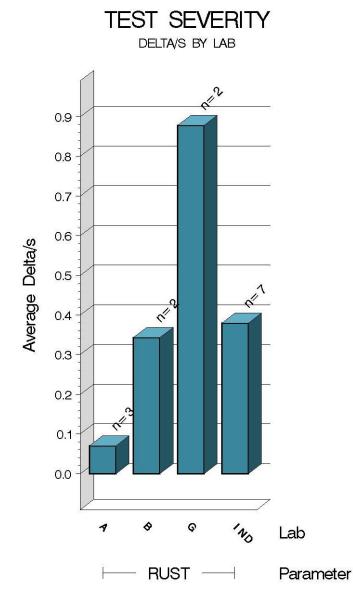


#### **CAUSES FOR LOST TESTS**

				Oil		V	alidit	y	Lo	oss Ra	ite
Lab	Cause		123-2	155	155-1	RC	LC	XC	Lost	Starts	%
	No tests were period	lost this							0	8	0%
		Lost	0	0	0	0	0	0			
		Starts	5	0	3	8	8	8			
		%	0%	0%	0%	0%	0%	0%			







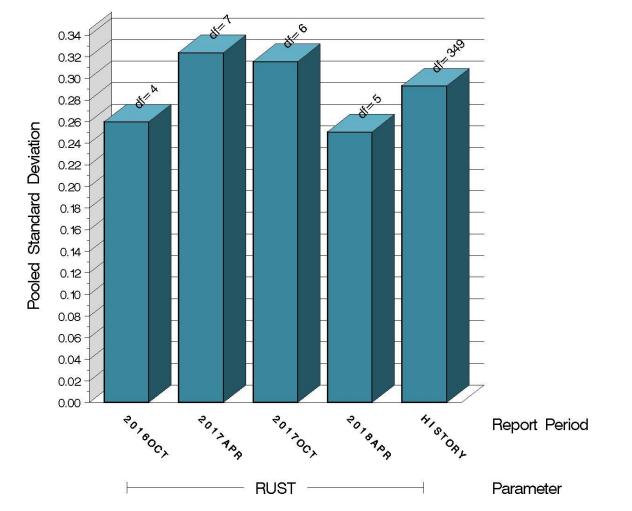
Average ∆/s by Lab				
Lab	n	RUST		
A	3	0.070		
В	2	0.343		
G	2	0.878		
Industry	7	0.379		
Shift	7	0.095 merits		



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TEST PRECISION

POOLED STANDARD DEVIATION BY SIX-MONTH ASTM REPORT PERIOD



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#### **SUMMARY OF SEVERITY & PRECISION**

#### Severity

Average RUST  $\Delta$ /s this period was 0.379. Using the target standard deviation for oil 155 (0.250), this equates to 0.095 merits severe.

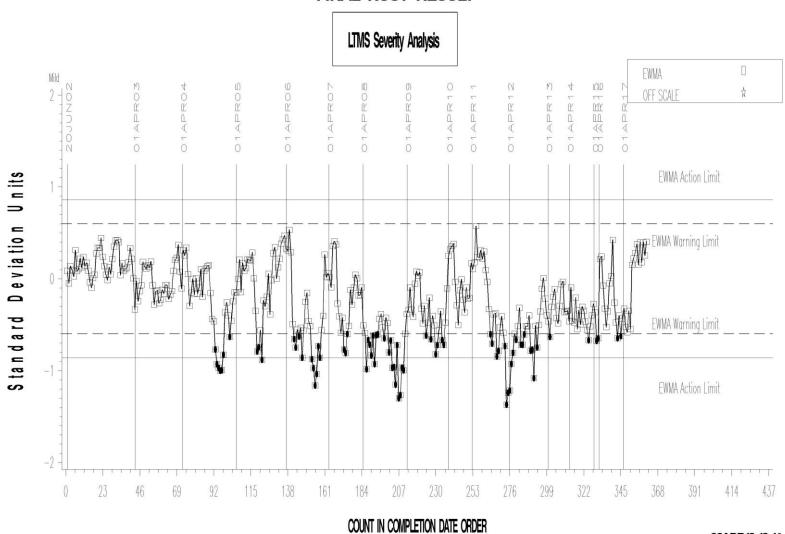
#### Precision

In the previous report period precision exceeded the action limit but has remained within the warning limit for this period.

Industry control charts follow.



#### L-33-1 INDUSTRY OPERATIONALLY VALID DATA



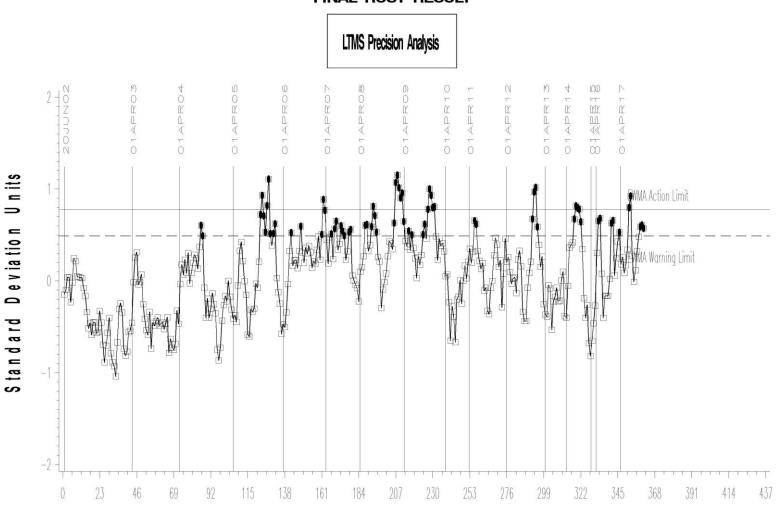
FINAL RUST RESULT

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Severe

#### L-33-1 INDUSTRY OPERATIONALLY VALID DATA



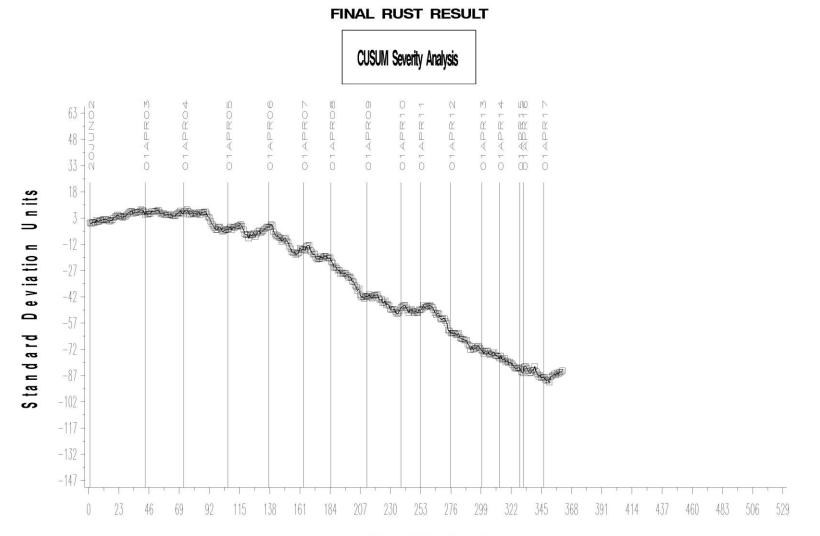
FINAL RUST RESULT

COUNT IN COMPLETION DATE ORDER

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#### L-33-1 INDUSTRY OPERATIONALLY VALID DATA



COUNT IN COMPLETION DATE ORDER

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#### **TIMELINE ADDITIONS**

Effective Date	Information Letter	Event
20180121	18-1	Extension of "Use-by" date on Dana V01.1 hardware





#### LAB VISITS

One L-33-1 lab visit was conducted during this period. No procedural nonconformances were found.

#### **INFORMATION LETTERS**

Information Letter 18-1 was issued during this period to change the "useby" date on Dana V01.1 hardware from June 23, 2017 to December 31, 2018.



#### STATUS OF REFERENCE OIL SUPPLY

		@ TMC		
Oil	Cans @ Labs	Cans	Gallons	
123-2	9	115	115.8	
155	0	15	15.0	
155-1	11	176	176.5	
Total	20	306	307.2	

The TMC quantity remaining presumes usage only for L-33-1 testing. Oil 155/155-1 is also used in other test areas (L-37, L-37-1, L-60-1, and HTCT).

