

#### **Test Monitoring Center**

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

MEMORANDUM: 18-030

DATE: October 15, 2018

TO: Dale Smith, Chairman, L-33-1 Surveillance Panel

FROM: Dylan Beck

SUBJECT: L-33-1 Testing from April 1, 2018 through September 30, 2018

Attached is a summary of testing activity this period.

DJB/djb/mem18-030.djb.doc

cc: Frank Farber Jeff Clark

Scott Parke

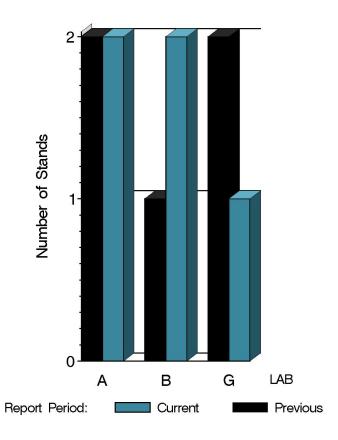
L-33-1 Surveillance Panel

http://www.astmtmc.cmu.edu/ftp/docs/gear/1331/semiannualreports/1331-10-2018.pdf

Distribution: email

	Reporting Data	Calibrated on 9-30-18
Number of Labs	3	3
Number of Stands	5	5

# BY-LAB STAND DISTRIBUTION



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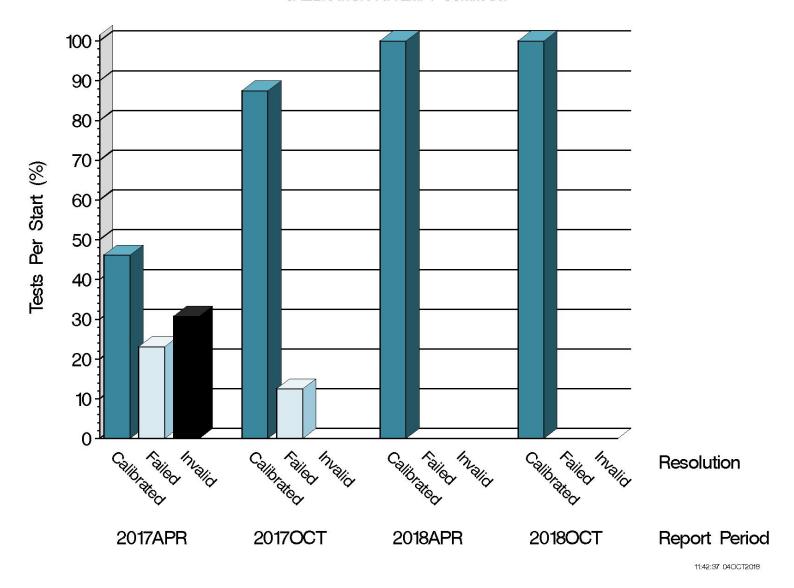
### **Test Distribution by Oil and Validity**

					Tot	als
		123-2	155	155-1	Last Period	This Period
Accepted for calibration	AC	3	0	2	7	5
Rejected (Mild)	OC	0	0	0	0	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	0	0	0	1	0
Total		3	0	2	8	5





CALIBRATION ATTEMPT SUMMARY

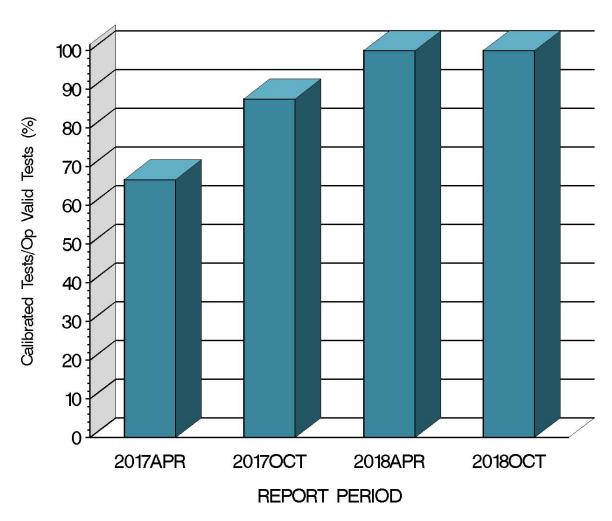


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# OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



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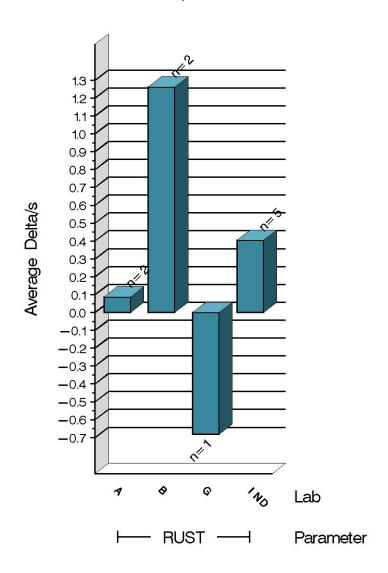


### **CAUSES FOR LOST TESTS**

			Oil			Validity		Loss Rate			
Lab	Cause		123-2	155	155-1	RC	LC	XC	Lost	Starts	%
	No tests were period	lost this							0	5	0%
		Lost	0	0	0	0	0	0			
		Starts	3	0	2	5	5	5			
		%	0%	0%	0%	0%	0%	0%			



TEST SEVERITY
DELTA/S BY LAB





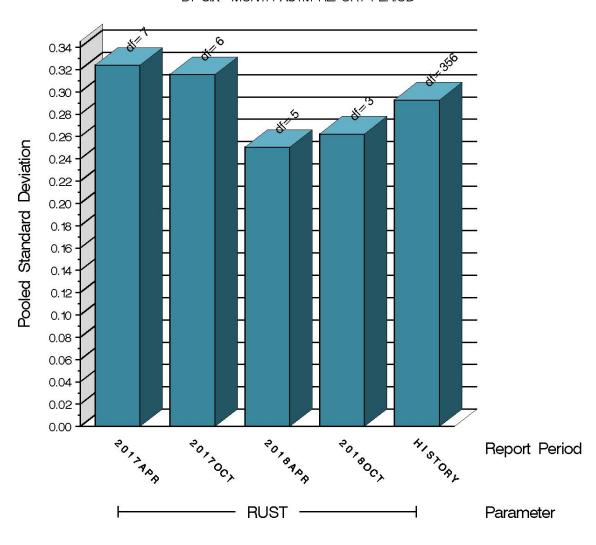
Average ∆/s by Lab				
Lab n RUST				
Α	2	0.087		

В	2	1.263
G	1	-0.682
Industry	5	0.404
Shift	5	0.101 merits



#### TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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

### Severity

No severity limits were exceeded this period.

### **Precision**

The action limit was exceeded during this period but finished the period below the warning limit.

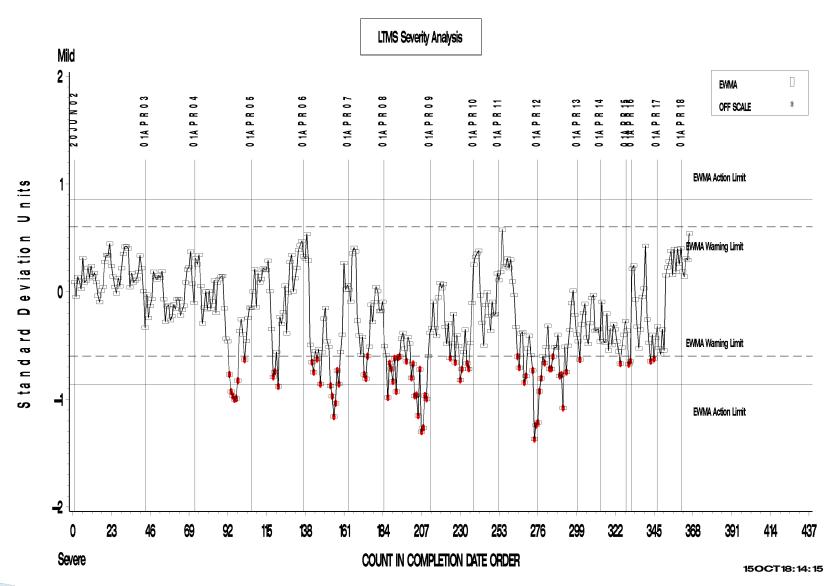
Industry control charts follow.





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

#### **FINAL RUST RESULT**



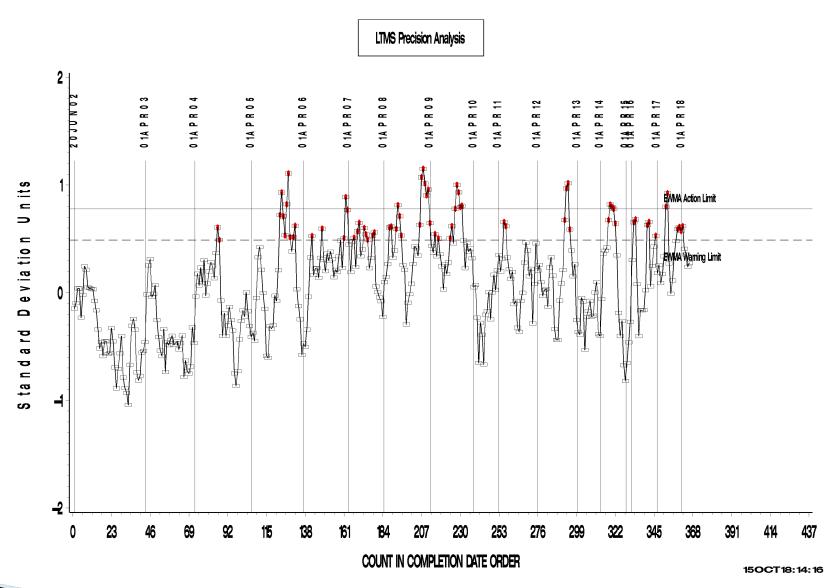
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#### L-33-1 INDUSTRY OPERATIONALLY VALID DATA

#### **FINAL RUST RESULT**

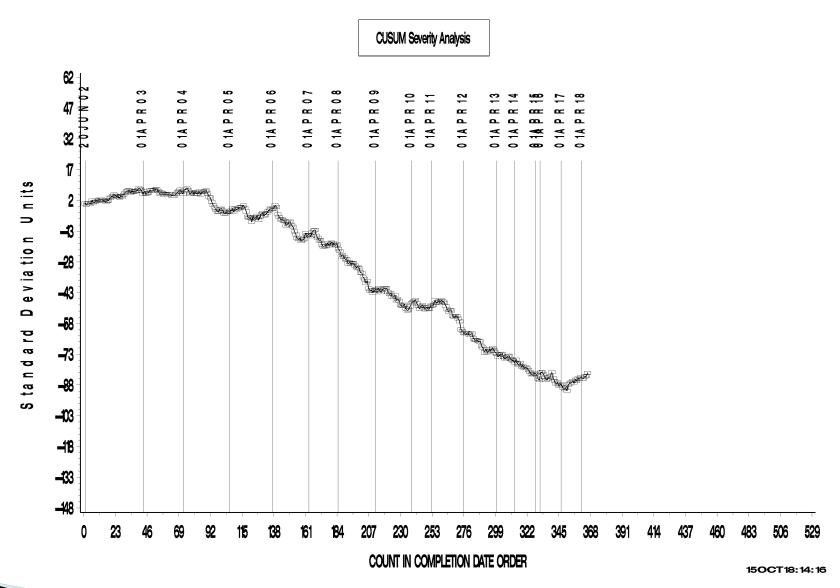






#### L-33-1 INDUSTRY OPERATIONALLY VALID DATA

#### **FINAL RUST RESULT**







### **TIMELINE ADDITIONS**

Effective Date	Information Letter	Event
20180808	18-2	Correction to information letter 17-1 that incorrectly used 6°C instead of 0.6°C
20180906	18-3	Removal of maximum number of downtime occurrences. Changed to allowing an unlimited number of downtime occurrences as long as the validity criteria is still met.



#### LAB VISITS

No L-33-1 lab visits were conducted during this period.

### **INFORMATION LETTERS**

Information Letters 18-2 and 18-3 were issued during this period. Letter 18-2 corrected a type that was included in 17-1. Letter 18-3 removed the allowed number of downtimes from the procedure to replace with an unlimited number of downtimes as long as the validity criteria of the test is still met.





### STATUS OF REFERENCE OIL SUPPLY

		@ TMC		
Oil	Cans @ Labs	Cans	Gallons	
123-2	11	108	108.0	
155	0	15	15.0	
155-1	13	167	167.2	
Total	24	290	290.2	

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).



