

Test Monitoring Center

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

MEMORANDUM: 17-013

DATE: May 12, 2017

TO: Angela Trader, Chairman, L-33-1 Surveillance Panel

FROM: Scott Parke

SUBJECT: L-33-1 Testing from October 1, 2016 through March 31, 2017

Attached is a summary of testing activity this period.

SDP/sdp/mem17-013.sdp.doc

cc: Frank Farber Jeff Clark

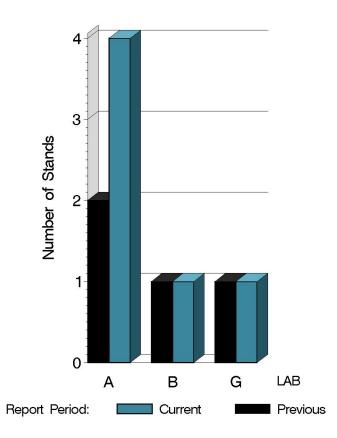
L-33-1 Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/gear/l331/semiannualreports/l331-04-2017.pdf

Distribution: email

	Reporting Data	Calibrated on 3-31-17
Number of Labs	3	3
Number of Stands	6	4

BY-LAB STAND DISTRIBUTION



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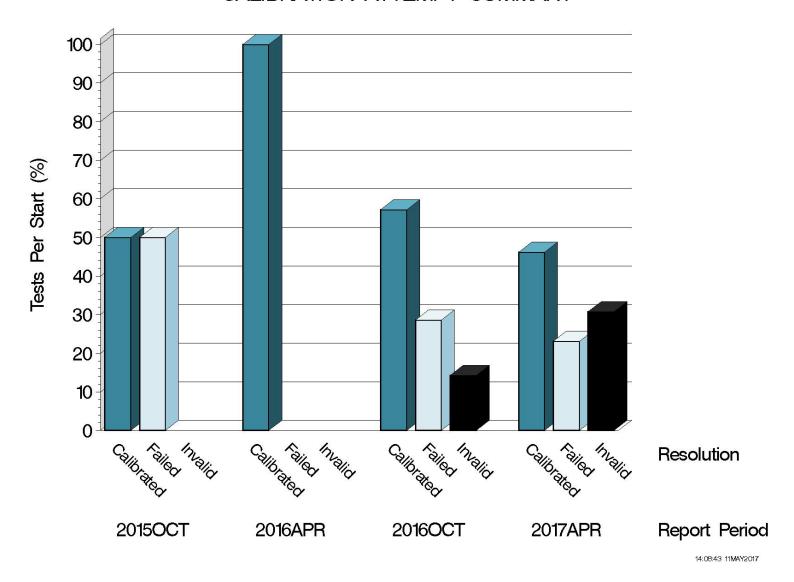


Test Distribution by Oil and Validity

					Tot	tals
		123-2	155	155-1	Last Period	This Period
Accepted for calibration	AC	3	0	3	4	6
Rejected (Mild)	OC	0	0	0	0	0
Rejected (Severe)	OC	0	0	0	0	0
Rejected (Precision)	OC	0	0	3	2	3
Invalidated calibration	LC	0	0	1	1	1
Aborted	XC	3	0	0	0	3
Unacceptable info run	MI	0	0	0	0	0
Accepted information run	NI	0	0	1	0	1
Total		6	0	8	7	14



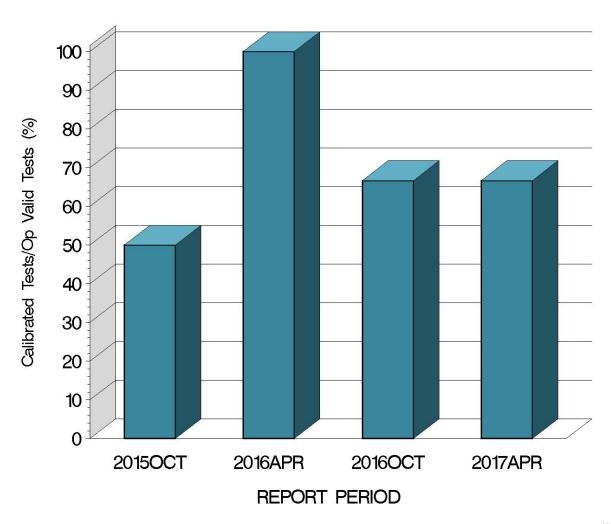
CALIBRATION ATTEMPT SUMMARY







OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA

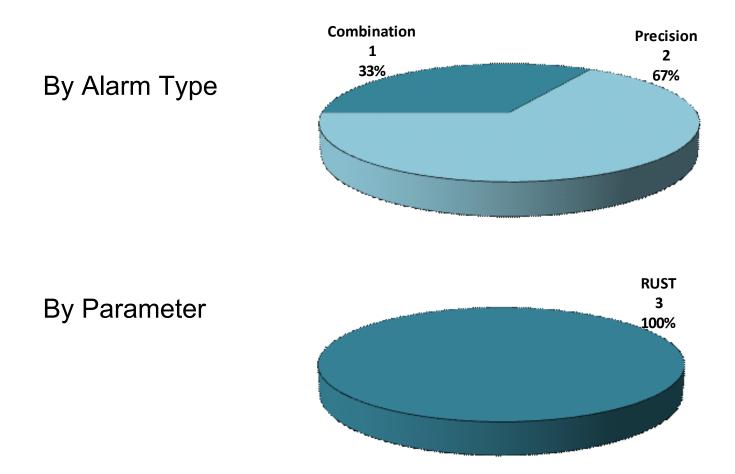


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L-33-1 (D7038) CAUSES FOR FAILED TESTS







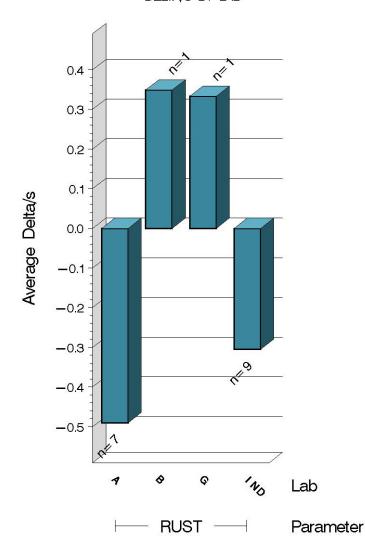
CAUSES FOR LOST TESTS

				Oil		V	alidit	y	Lo	oss Ra	ate
Lab	Cause		123-2	155	155-1	RC	LC	XC	Lost	Starts	%
	Motoring phase out of spec	e temp	•					•			
A Severe rust attrib to motoring phase temp out of spec		ase	•					•	2	9	22%
G	Motoring phase out of spec	e temp	•					•	- 2	3	67%
G	Motoring phase temp out of spec				•		•			3	07 70
		Lost	3	0	1	0	1	3			<u>. </u>
		Starts	6	0	8	14	14	14			
		%	50%	0%	13%	0%	7%	21%			



TEST SEVERITY

DELTA/S BY LAB



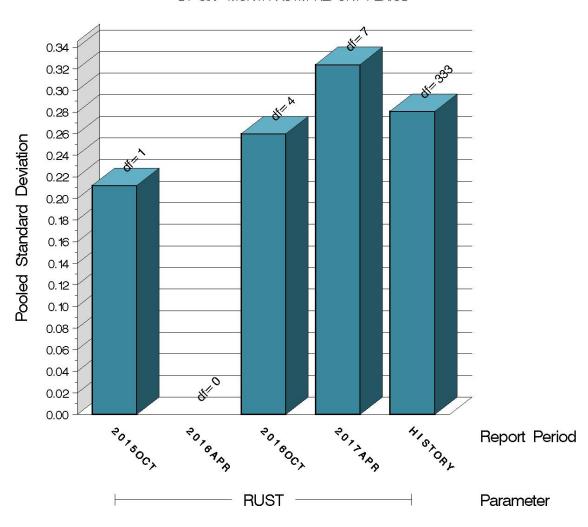
Average ∆/s by Lab					
Lab n		RUST			
Α	7	-0.490			
В	1	0.349			
G	1	0.333			
Industry	9	-0.305			
Shift	9	-0.076 merits			





TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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SUMMARY OF SEVERITY & PRECISION

Severity

Average RUST Δ /s this period was -0.076. Using the target standard deviation for oil 155 (0.250), this equates to 0.019 merits severe.

Precision

A very mild result ($Y_i = 2.000$) followed by a very severe one ($Y_i = -3.000$) from lab A generated precision warnings that have since been cleared.

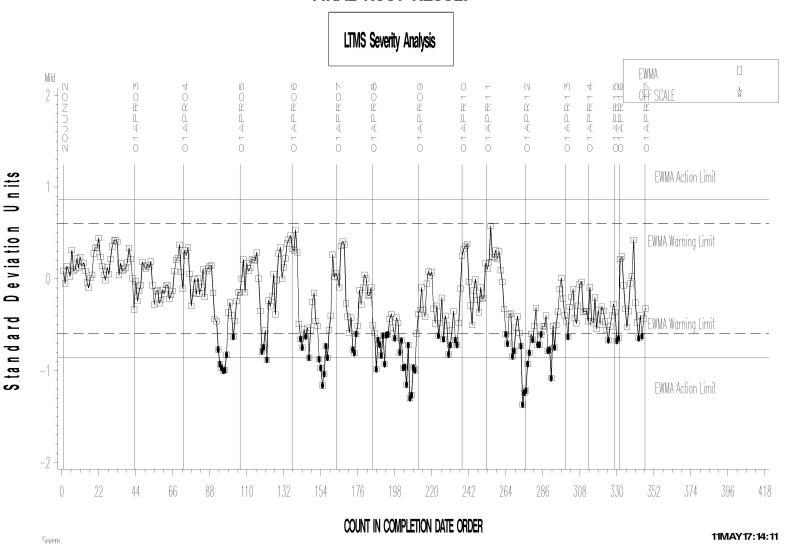
Industry control charts follow.





L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT



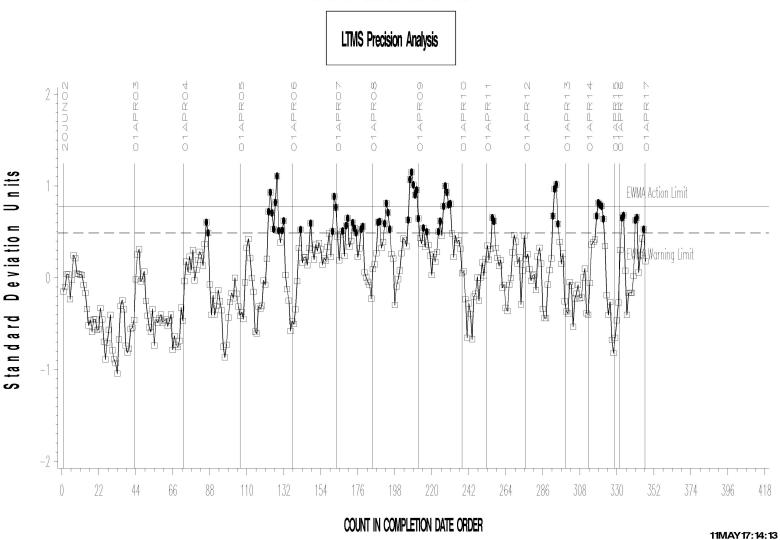
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT



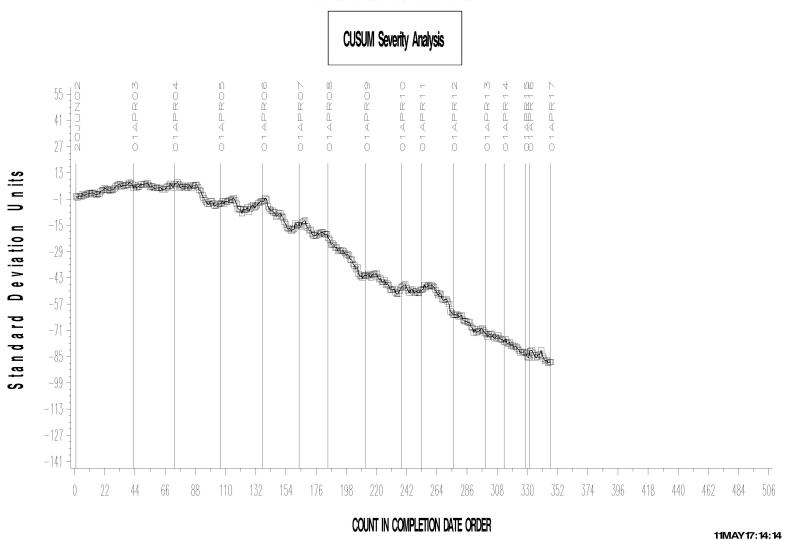
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L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT



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TIMELINE ADDITIONS

E	ffective Date	Information Letter	Event
2	0161220	16-3	Editorial revisions.



LAB VISITS

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

INFORMATION LETTERS

Information Letter 16-3 was issued during this period to correct some minor editorial mistakes in the text introduced with Information Letter 16-1.





STATUS OF REFERENCE OIL SUPPLY

		@ TMC		
Oil	Cans @ Labs	Cans	Gallons	
123-2	16	116	116.8	
155	0	15	15.0	
155-1	13	186	186.5	
Total	29	317	318.2	

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).



