

#### **Test Monitoring Center**

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

MEMORANDUM:	16-004
DATE:	April 12, 2016
TO:	Angela Trader, Chairman, L-33-1 Surveillance Panel
FROM:	Scott Parke
SUBJECT:	L-33-1 Testing from October 1, 2015 through March 31, 2016

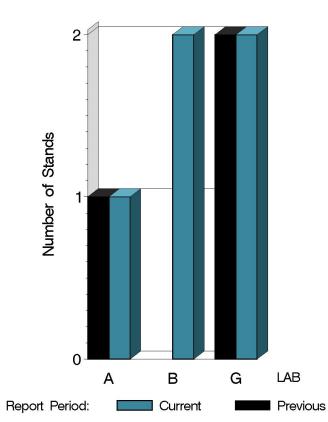
Please find attached a summary of testing activity this period.

SDP/sdp/mem16-004.sdp.doc cc: Frank Farber Jeff Clark L-33-1 Surveillance Panel <u>ftp://ftp.astmtmc.cmu.edu/docs/gear/l331/semiannualreports/l331-04-2016.pdf</u>

Distribution: email

	Reporting Data	Calibrated on 3-31-16
Number of Labs	3	1
Number of Stands	5	1

BY-LAB STAND DISTRIBUTION



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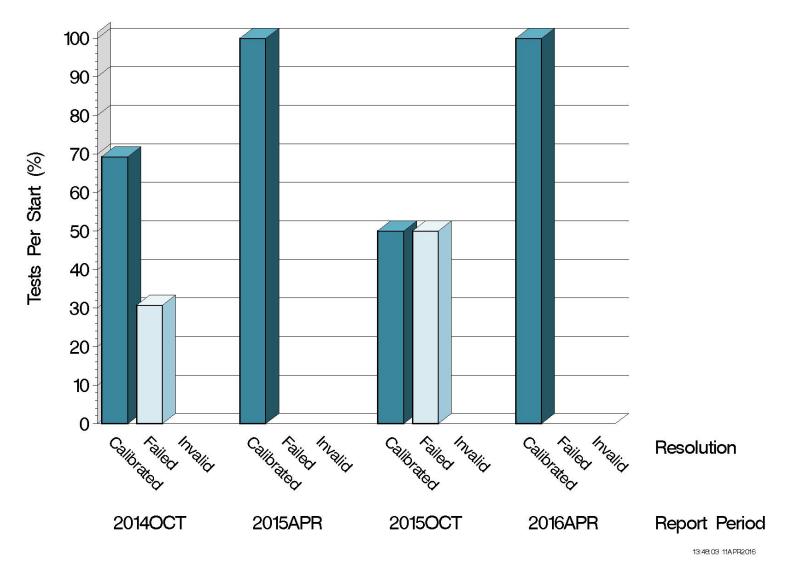


#### **Test Distribution by Oil and Validity**

				Totals		
		123-2	155	155-1	Last Period	This Period
Accepted for calibration	AC	1	0	0	1	1
Rejected (Mild)	OC	0	0	0	0	0
Rejected (Severe)	OC	0	0	0	1	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	1	0	1
Accepted information run	NI	6	0	6	10	12
Total		7	0	7	12	14



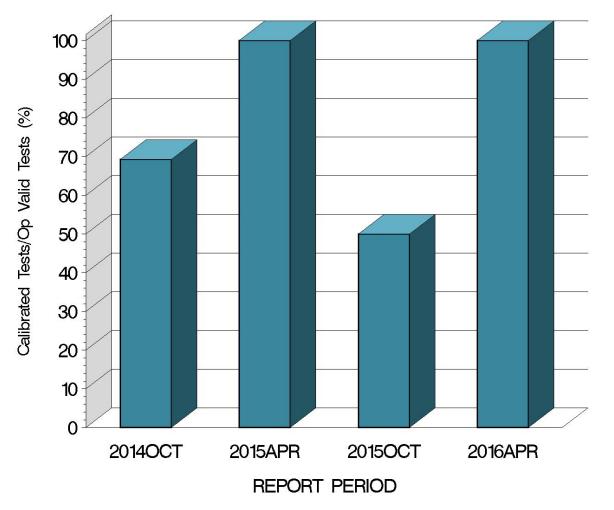
#### CALIBRATION ATTEMPT SUMMARY





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

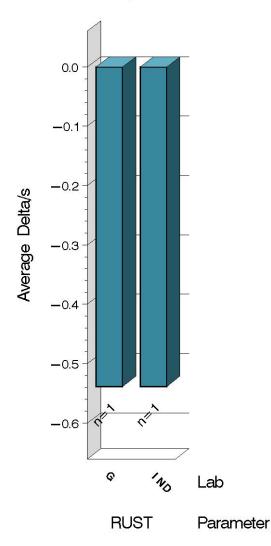
				Oil		V	alidit	t <b>y</b>	Lo	oss Ra	ate
Lab	Cause		123-2	155	155-1	RC	LC	XC	Lost	Starts	%
	No tests were period.	lost this							0	14	0%
	•	Lost	0	0	0	0	0	0			
		Starts	7	0	7	14	14	14			
		%	0%	0%	0%	0%	0%	0%			

One test development run was unusable due to storage box heater failure.



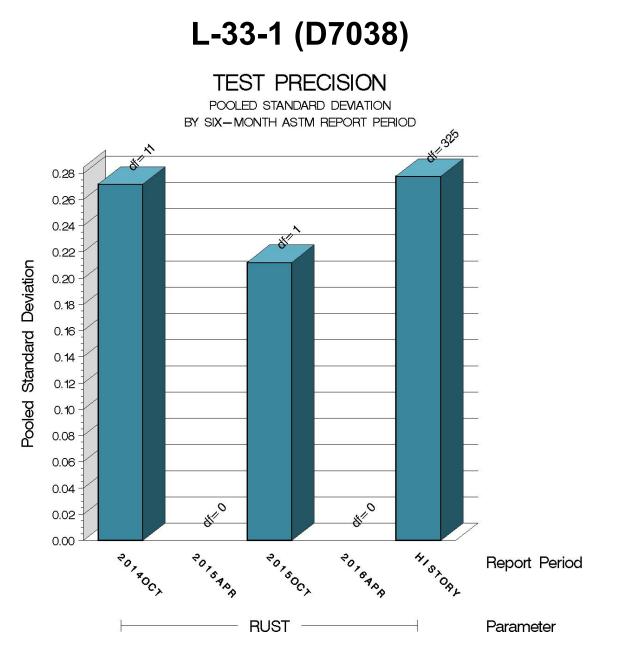
TEST SEVERITY

DELTA/S BY LAB



Average ∆/s by Lab				
Lab	n RUST			
G	1	-0.538		
Industry	1	-0.538		
Shift	1	-0.135 merits		





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

#### Severity

Average RUST  $\Delta$ /s this period was -0.538. Using the target standard deviation for oil 155 (0.250), this equates to 0.135 merits severe. Most testing activity this period (13 of 14 tests) was done as part of test development for American Axle hardware. None of this testing contributes to control charting.

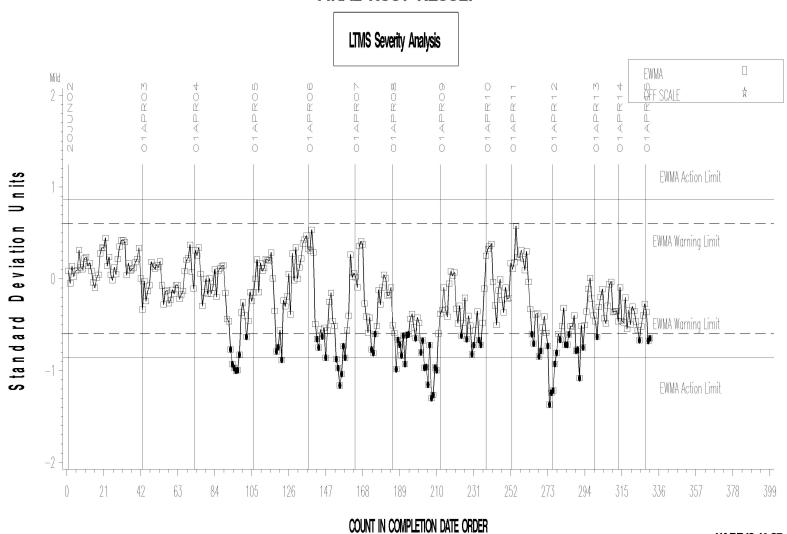
#### Precision

Precision remained within-limits throughout the period.

Industry control charts follow.



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



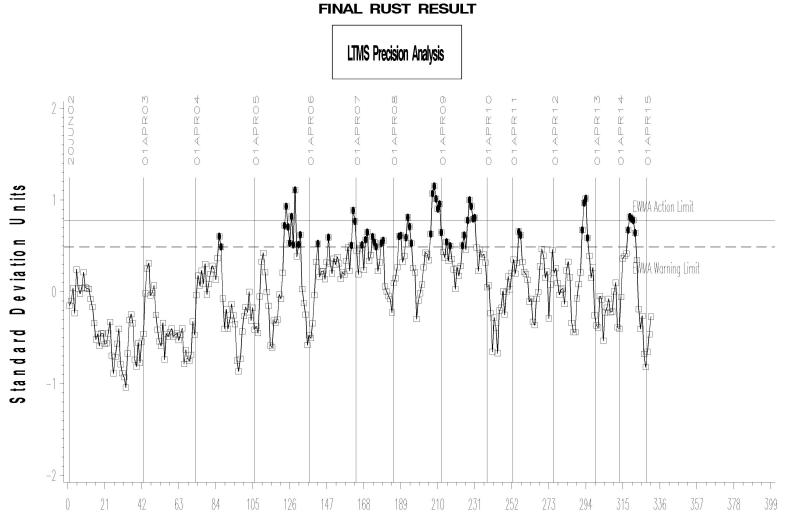
FINAL RUST RESULT

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Severe

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



COUNT IN COMPLETION DATE ORDER

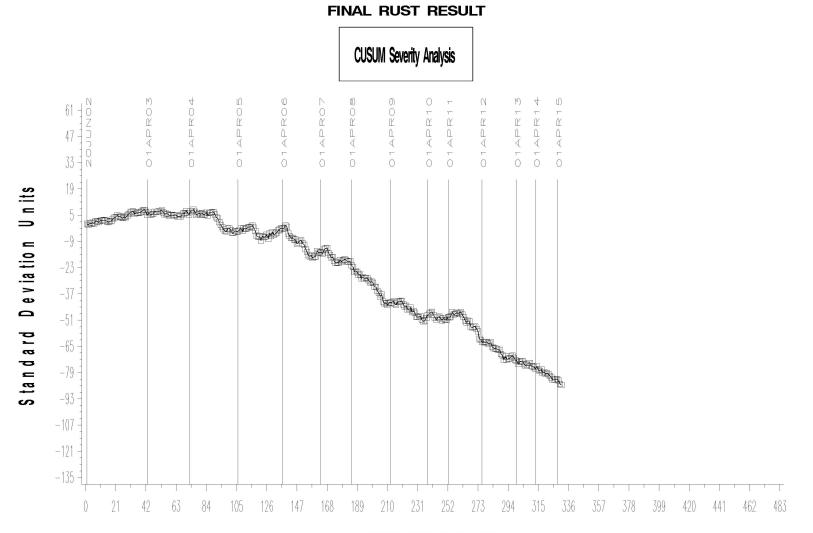
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#### L-33-1 INDUSTRY OPERATIONALLY VALID DATA



COUNT IN COMPLETION DATE ORDER

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#### **TIMELINE ADDITIONS**

Effective Date	Information Letter	Event
		There were no timeline additions.





#### LAB VISITS

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

#### **INFORMATION LETTERS**

No information letters were issued this period.





#### STATUS OF REFERENCE OIL SUPPLY

		@ TMC		
Oil	Cans @ Labs	Cans	Gallons	
123-2	9	133	133.8	
155	0	15	15.0	
155-1	10	231	231.0	
Total	19	379	379.8	

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).

