




Test Monitoring Center

Carnegie Mellon University
6555 Penn Avenue, Pittsburgh, PA 15206, USA

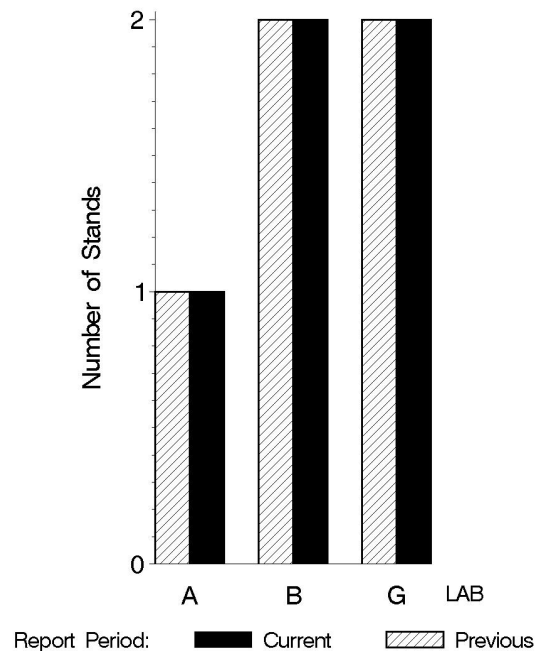
<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 12-007
 DATE: April 17, 2012
 TO: Dale Smith, Chairman, L-33-1 Surveillance Panel
 FROM: Scott Parke 
 SUBJECT: L-33-1 Testing from October 1, 2011 through March 31, 2012

A total of 11 L-33-1 tests were reported to the Test Monitoring Center during the period from October 1, 2011 through March 31, 2012. Following is a summary of testing activity this period.

	Reporting Data	Calibrated on 3-31-12
Number of Labs	3	2
Number of Stands	5	3

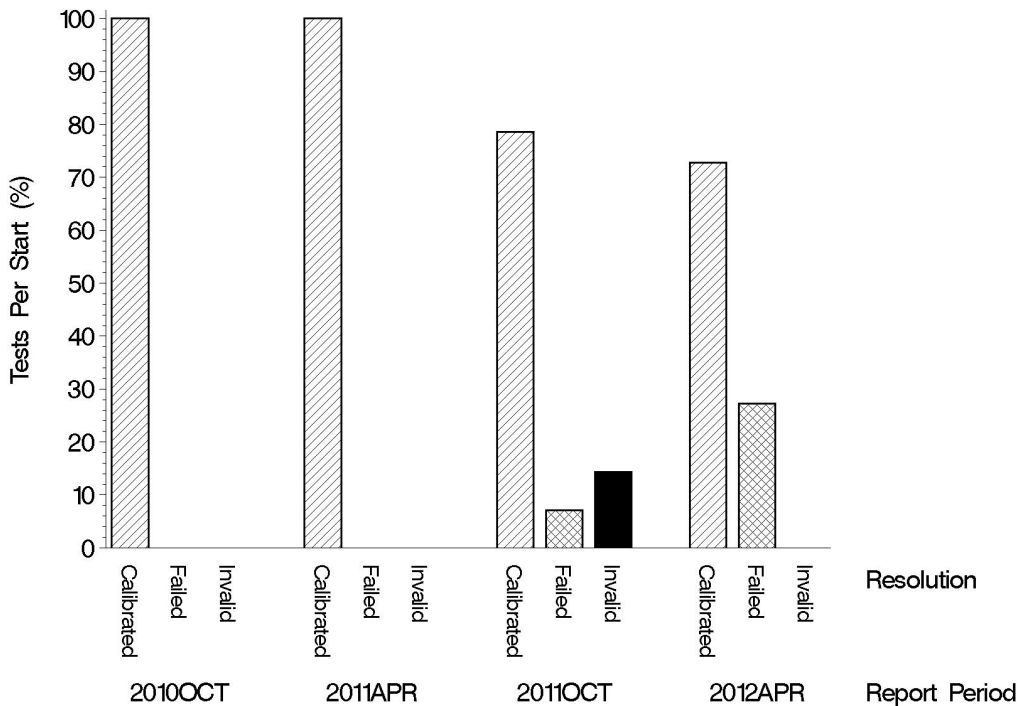
BY-LAB STAND DISTRIBUTION



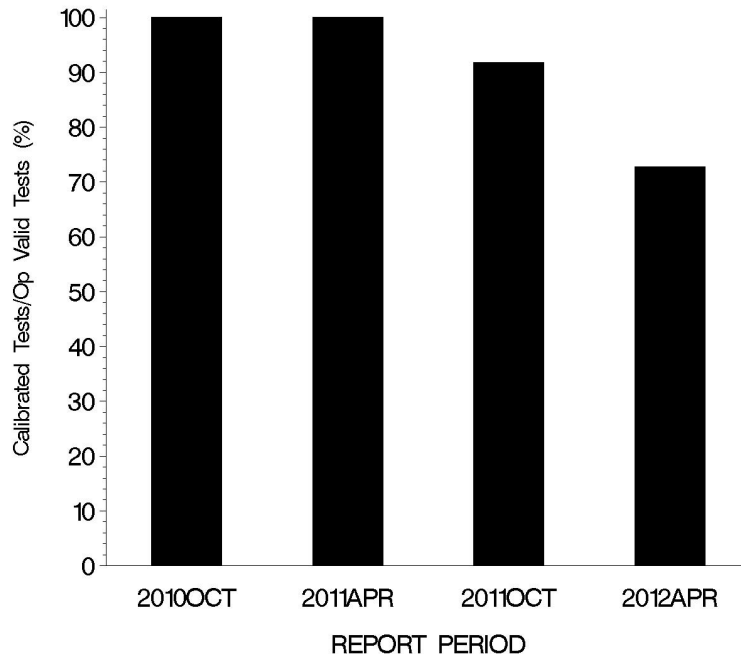
Test Distribution by Oil and Validity

		Totals				
		123-2	155	155-1	Last Period	This Period
Accepted for calibration	AC	3	5	0	11	8
Rejected (Mild)	OC	0	0	0	1	0
Rejected (Severe)	OC	0	1	0	0	1
Rejected (Precision)	OC	0	2	0	0	2
Aborted	XC	0	0	0	0	0
Invalid (by lab)	LC	0	0	0	1	0
Invalid (by lab/TMC)	RC	0	0	0	1	0
Shakedown run	NI	0	0	0	0	0
Total		3	8	0	14	11

CALIBRATION ATTEMPT SUMMARY



OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA

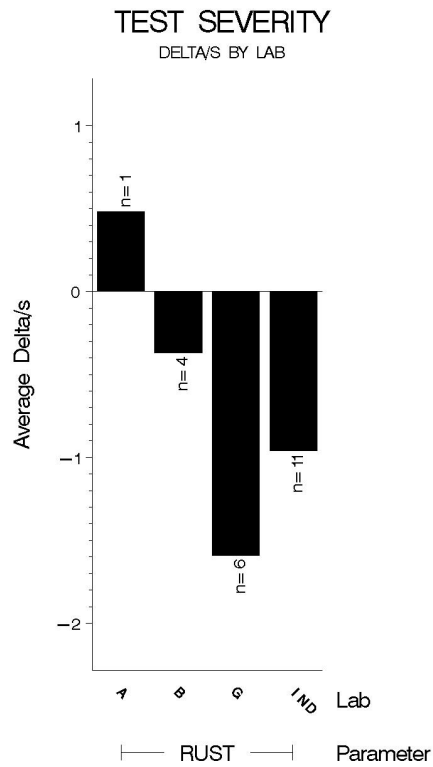


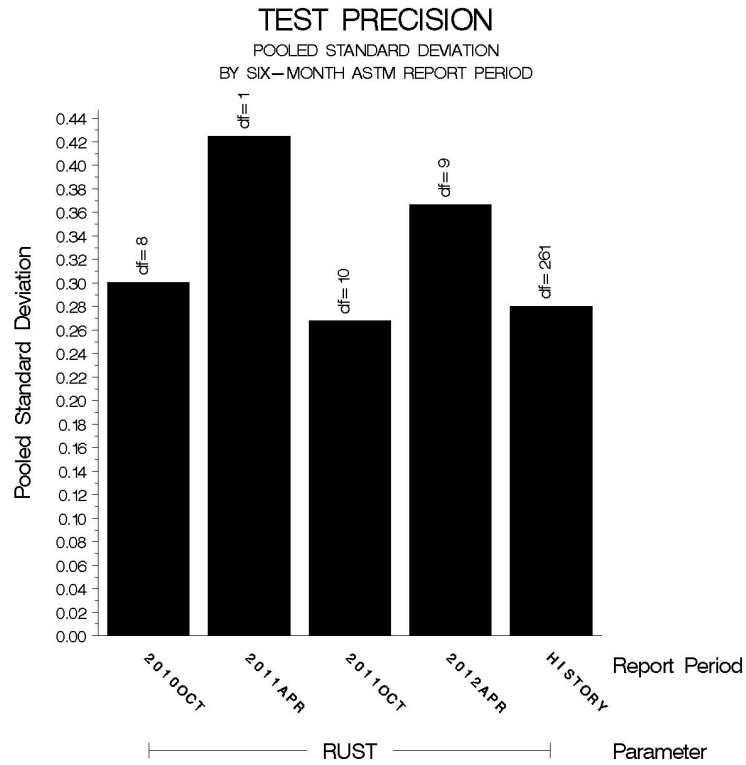
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CAUSES FOR LOST TESTS:

Lab	Cause	Oil			Validity			Loss Rate		
		123-2	155	155-1	LC	RC	XC	Lost	Starts	%
	No tests were lost this period.							0	11	0%
	Lost	0	0	0	0	0	0			
	Starts	3	8	0	11	11	11			
	%	0%	0%	0%	0%	0%	0%			

Average Δ/s by Lab		
Lab	n	RUST
A	1	0.480
B	4	-0.367
G	6	-1.588
Industry	11	-0.956
Shift	11	-0.239





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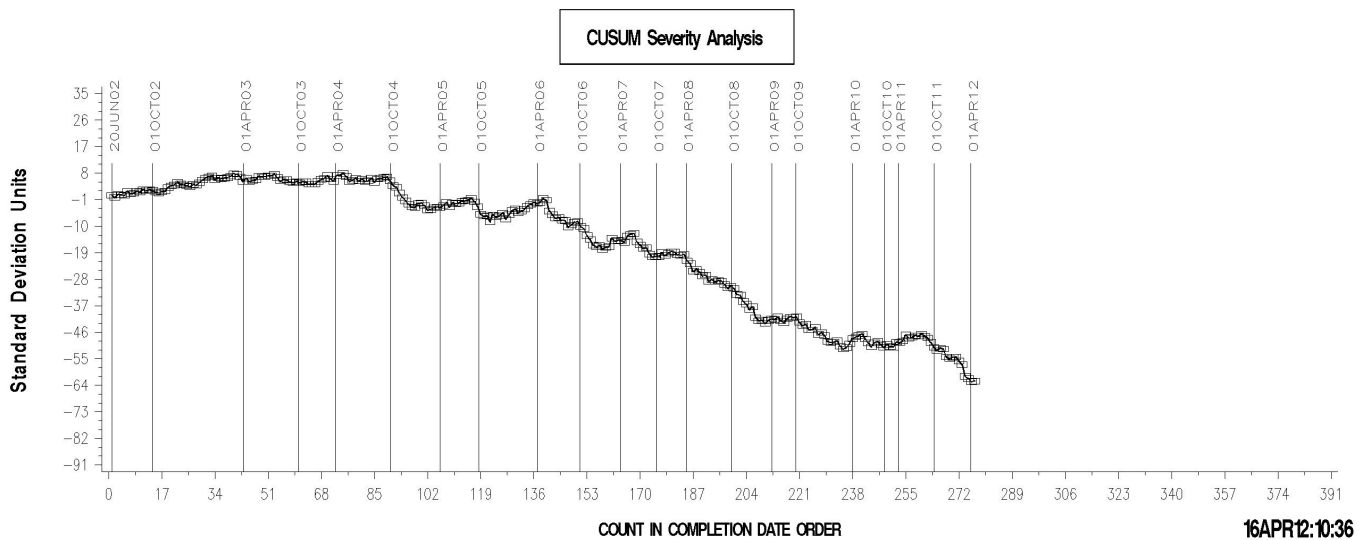
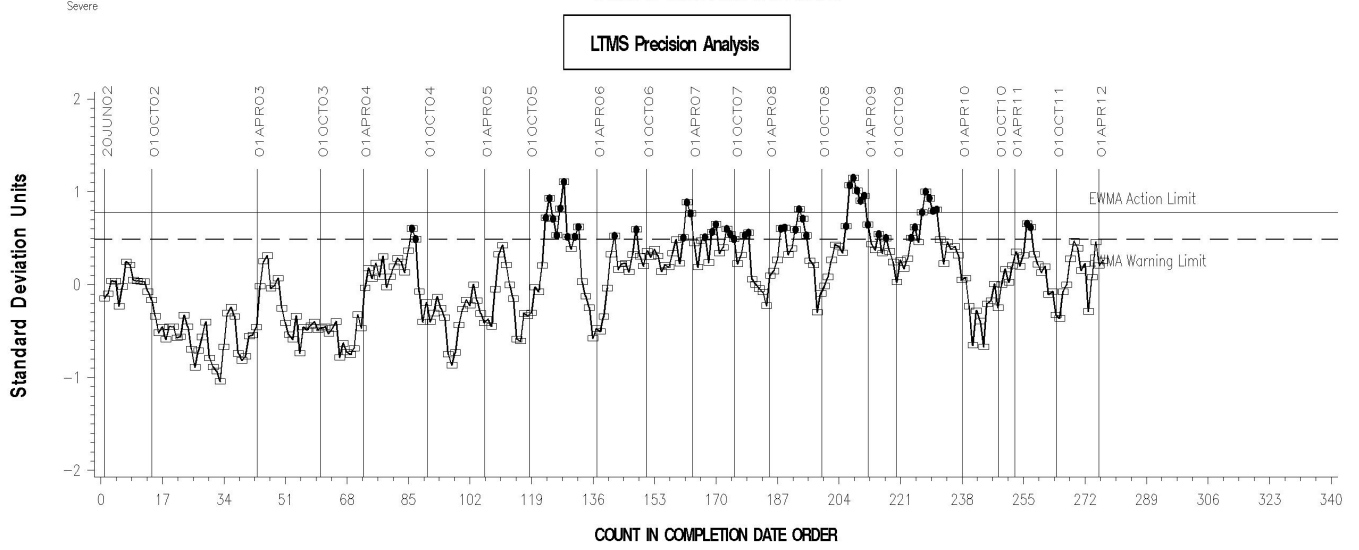
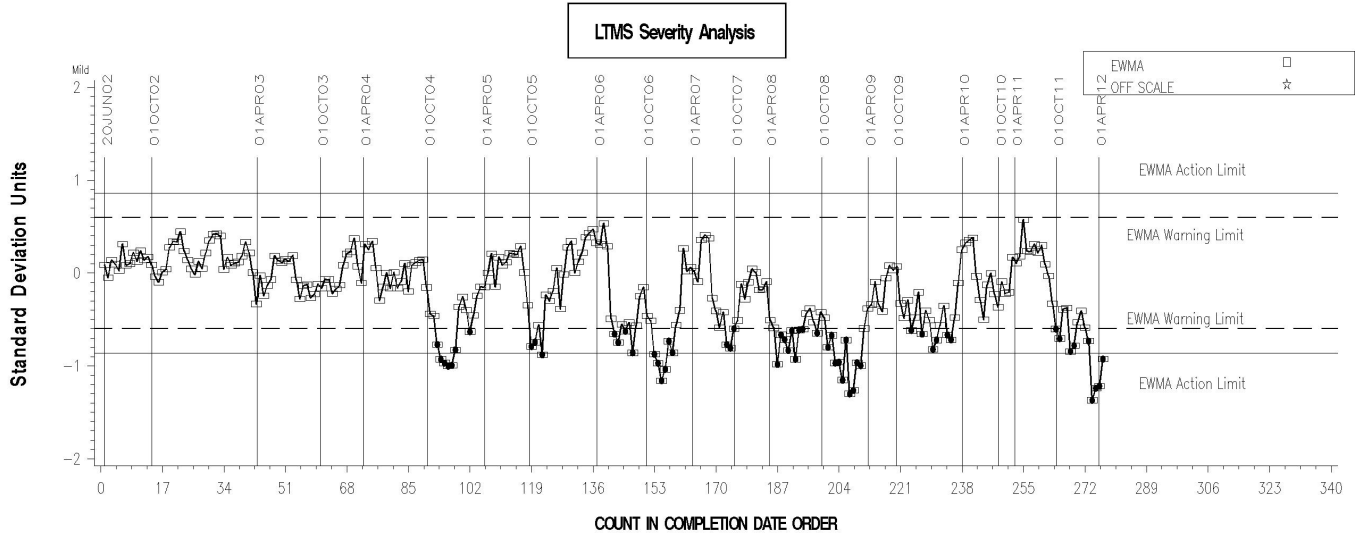
INDUSTRY CONTROL CHART:

The industry control chart is shown on the following page. Severity is currently exceeding the EWMA action limit and has been severe throughout this period. This trend is largely being driven by severe results from lab G.

Precision performance remained within control chart alarm limits throughout the period.

L-33-1 INDUSTRY OPERATIONALLY VALID DATA

FINAL RUST RESULT



TIMELINE OF SIGNIFICANT EVENTS IN THE HISTORY OF THE L-33-1 TEST:

Effective Date	Information Letter	Event
20030106	02-1	New L-33-1 Test Procedure
20030507	03-1	Revised test unit assembly procedure
20030507	03-1	Revise specification for the abrasive blasting cabinet regulator
20030507	03-1	Revised electric fan motor RPM specification
20030507	03-1	Non-interpretable tests
20030507	03-1	Revision to light rust definition
20030507	03-1	Editorial changes
20030916	03-2	Bearing replacement
20030916	03-2	Addition of Dana bulletin No. 5304-2
20040101	03-2	Change in solvent specification
20050221	05-1	Revised Solvent Specification
20050221	05-1	Revised Cover Plate Guide Pin Requirement
20050221	05-1	Updated Test Precision
20050221	05-1	Donated Reference Oil Test Programs/Calibration Period Length Adjustment
20050221	05-1	Revised Footnote 2
20060207	06-1	Axle Cover Rating Template
20060721	06-2	Housing Cover Gasket Supplier Name and Address Change
20061009	06-3	Aluminum Differential Case, Area 2, Hub Inside Diameter Rating Template
20061009	06-3	Editorial changes
20070214	07-1	Revised Area 1 Rating Surface Description
20070214	07-1	Editorial Changes to Figures A1.8, A1.14, and A1.15
20070411	07-2	Editorial Changes to Sections A2.2.1 and A2.2.2
20070525	07-3	Rating Procedure Using Aluminum Differential Case, Area 2, Hub Inside Diameter Rating Template
20071114	07-4	Revised Start-up Procedure
20080114	08-1	Revised Section 11.1.6.1
20090323	09-1	Revision to Percent Deviation Calculation
20091112	09-2	Revised instrumentation calibration frequency

TMC LAB VISITS:

No L33-1 lab visits were conducted during this report period.

INFORMATION LETTERS:

No information letters were issued this report period.

STATUS OF REFERENCE OIL SUPPLY:

At the end of this report period, the testing oil supply stood as outlined in the table below:

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
123	0	0	0.0
123-2	15	175	175.8
151-3	0	0	0.0
155	4	102	102.0
155-1	10	446	446.8
Total	29	723	724.5

The TMC quantity remaining presumes usage only for L-33-1 testing. Oils 151-3 and 155 are also used in other test areas. In 2005, the now nearly-depleted 151-3 was replaced by 155 which itself is nearing depletion. Oil 155-1 is ready for introduction and will be rolled in using 155 targets until 10 tests are completed.

SDP/sdp/mem12-007.sdp.doc

cc: Frank Farber
Jeff Clark

<ftp://ftp.astmtmc.cmu.edu/docs/gear/l331/semiannualreports/l331-04-2012.pdf>

Distribution: email