



# Test Monitoring Center

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

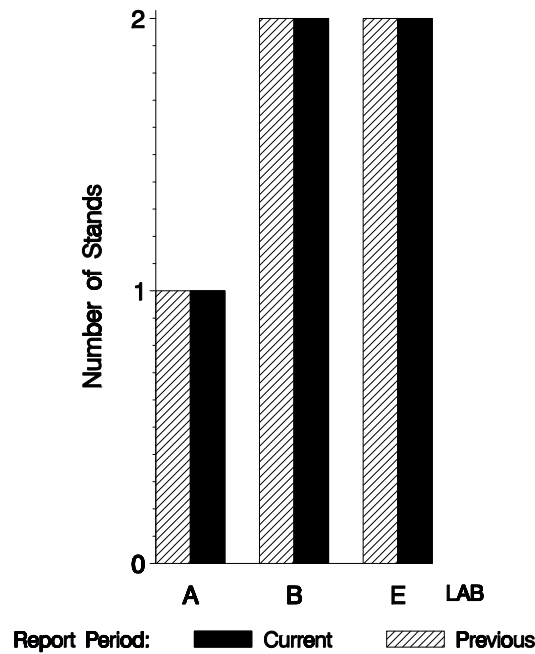
<http://astmtmc.cmu.edu>  
412-365-1000

MEMORANDUM: 10-027  
 DATE: June 15, 2010  
 TO: Dale Smith, Chairman, L-33-1 Surveillance Panel  
 FROM: Scott Parke *SP*  
 SUBJECT: L-33-1 Testing from October 1, 2009 through March 31, 2010

A total of 19 L-33-1 tests were reported to the Test Monitoring Center during the period from October 1, 2009 through March 31, 2010. Following is a summary of testing activity this period.

	Reporting Data	Calibrated on 3-31-10
Number of Labs	3	3
Number of Stands	5	3

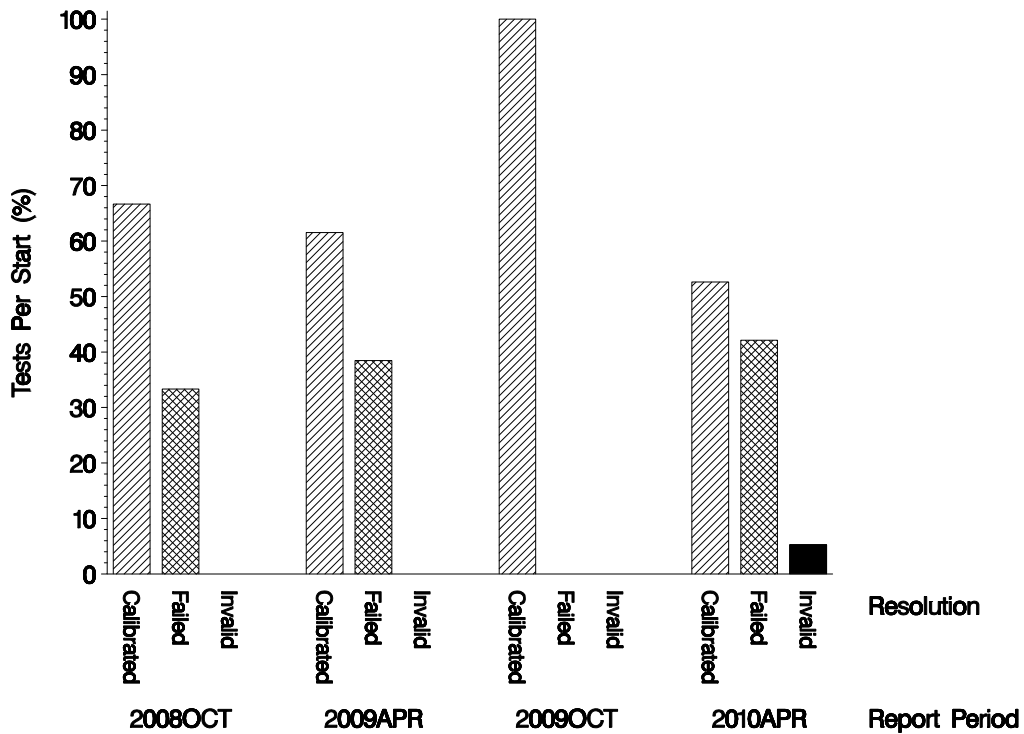
## BY-LAB STAND DISTRIBUTION



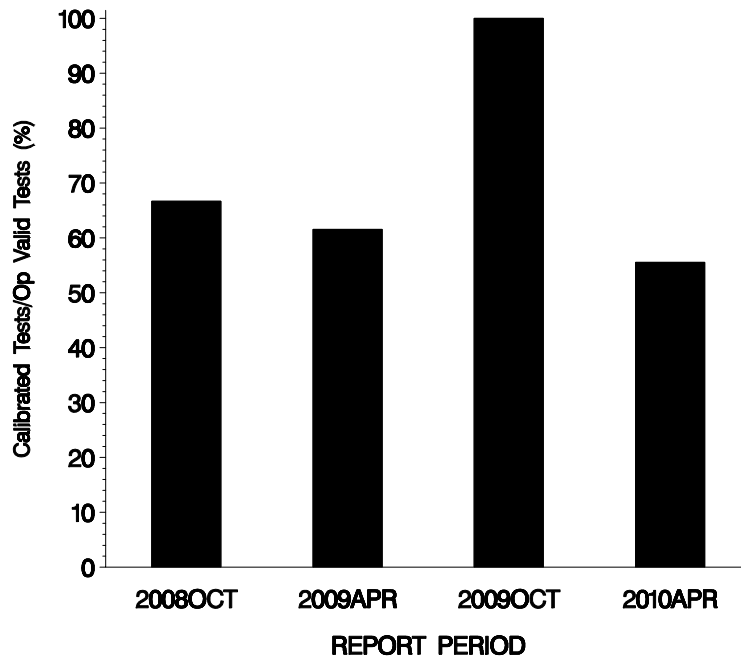
**Test Distribution by Oil and Validity**

		Totals			
		123-2	155	Last Period	This Period
Accepted for calibration	AC	4	6	7	10
Rejected (Mild)	OC	0	0	0	0
Rejected (Severe)	OC	0	3	0	3
Rejected (Precision)	OC	3	2	0	5
Aborted	XC	0	1	0	1
<b>Total</b>		<b>7</b>	<b>12</b>	<b>7</b>	<b>19</b>

**CALIBRATION ATTEMPT SUMMARY**

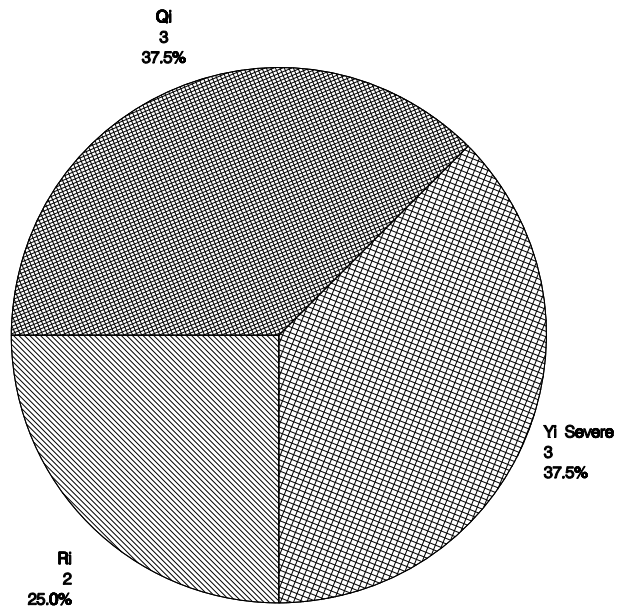


### OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



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### DISTRIBUTION OF FAILING TESTS (By Severity)

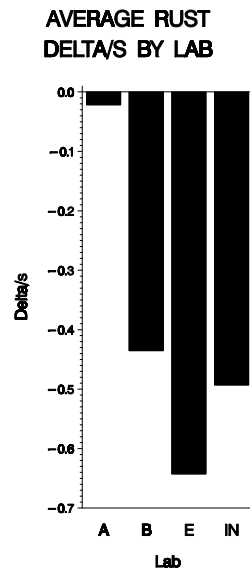


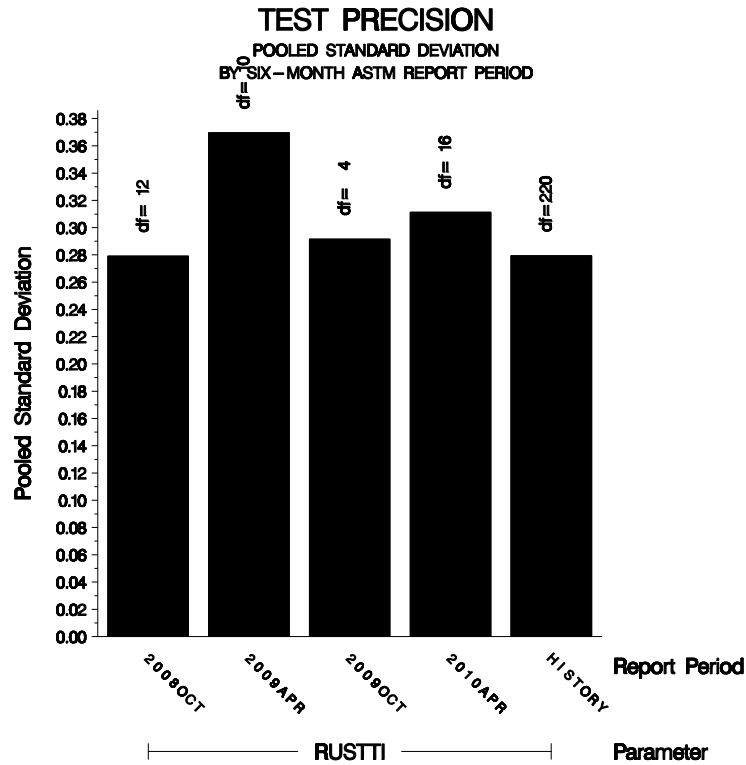
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CAUSES FOR LOST TESTS:

Lab	Cause	Oil			Validity			Loss Rate		
		123-2	151-3	155	LC	RC	XC	Lost	Starts	%
E	Failed to start test within 8h of blasting.			●			●	1	10	10%
	Lost	0	0	1	0	0	1			
	Starts	7	0	12	19	19	19			
	%	0%	0%	8%	0%	0%	1%			

Average $\Delta/s$ by Lab		
Lab	n	TGF
A	2	-0.022
B	7	-0.435
E	9	-0.643
Industry	18	-0.493





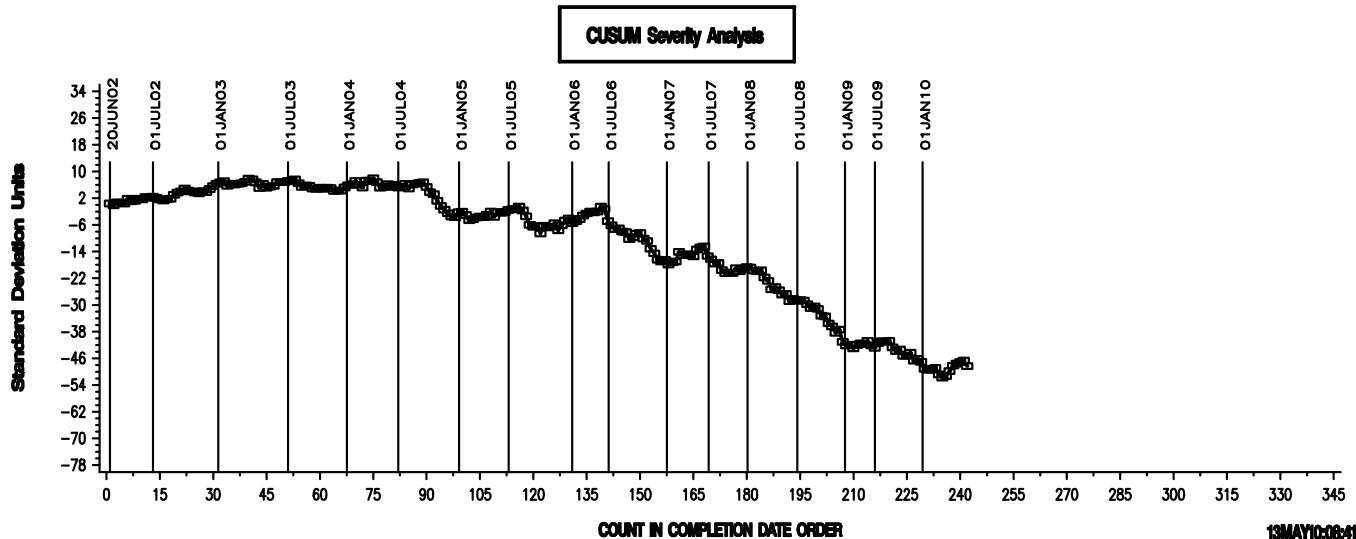
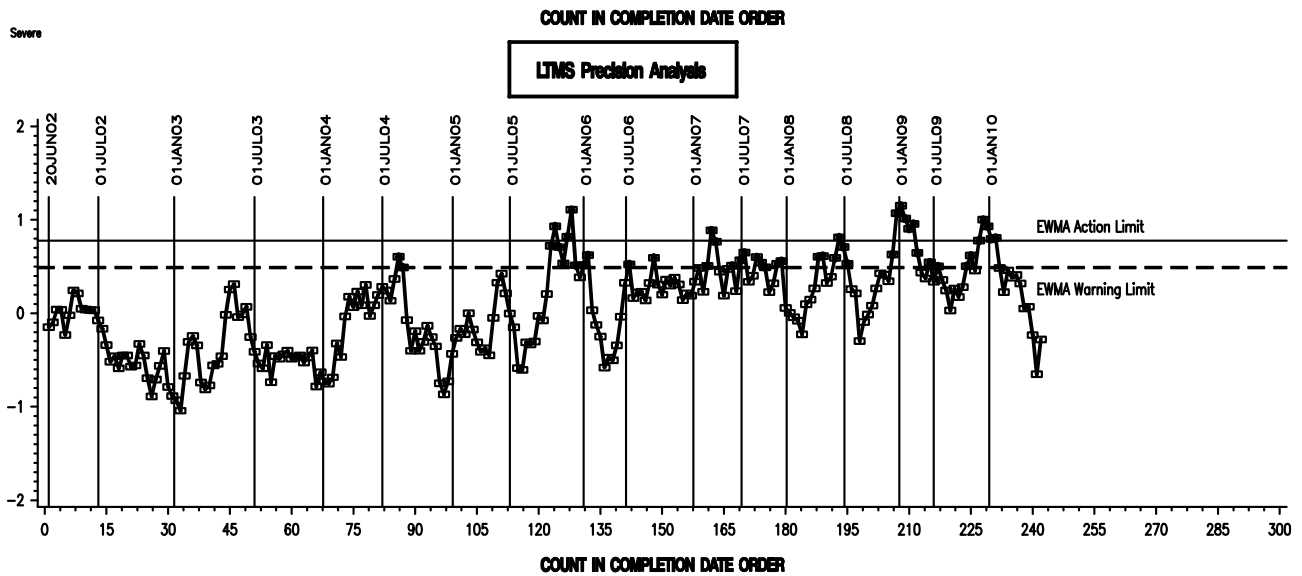
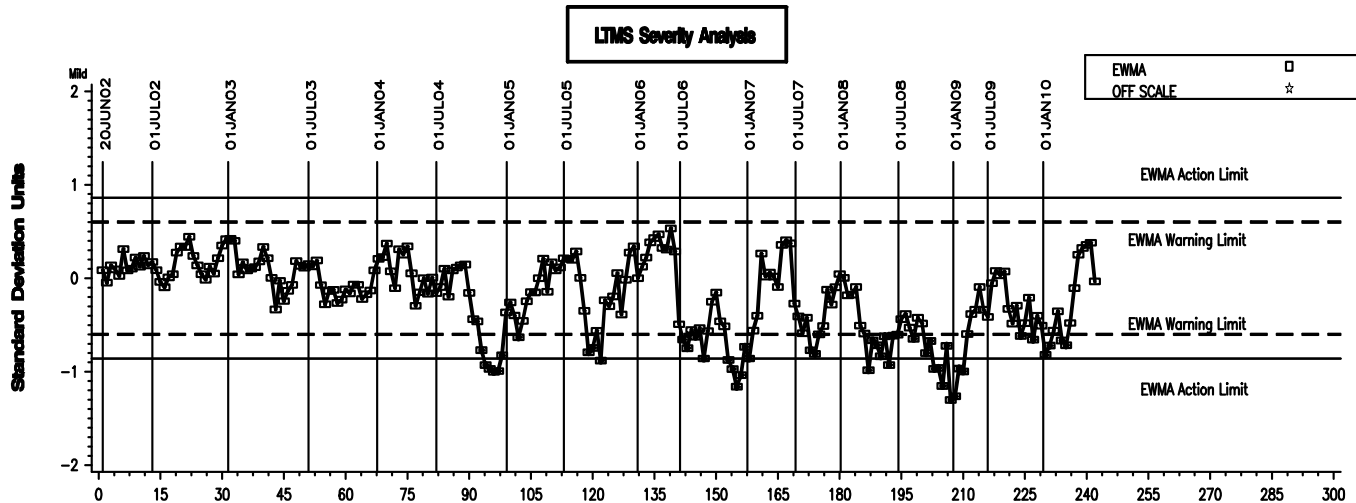
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INDUSTRY CONTROL CHART:

The industry control chart is shown on the following page. Both precision and severity performance are currently performing within control chart alarm limits.

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

#### FINAL RUST RESULT



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

<b>Effective Date</b>	<b>Information Letter</b>	<b>Event</b>
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



TMC LAB VISITS:

One L33-1 lab visit was conducted during this report period. No noteworthy deviations from procedure were discovered.

INFORMATION LETTERS:

Information Letter 09-2 was issued December 2, 2009 to document a revision to the calibration frequency requirement for certain stand instrumentation.

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	1	0	0.0
123-2	15	275	275.0
151-3	4	0	0.0
155	7	550	550.0
<b>Total</b>	<b>27</b>	<b>825</b>	<b>825.0</b>

The TMC quantity remaining presumes usage only for L-33-1 testing. Oils 151-3 and 155 are also used in other test areas.

SDP/sdp/astm0410.doc/mem10-027.sdp.doc

c: Frank Farber

Jeff Clark

Don Lind

L-33-1 Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/gears/1331/semiannualreports/1331-04-2010.pdf>

Distribution: email