

Test Monitoring Center

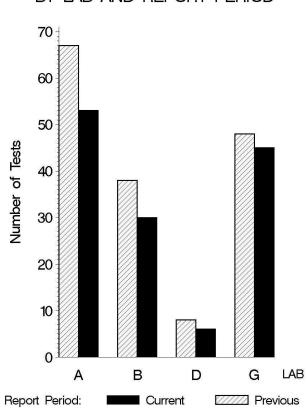
Carnegie Mellon University 6555 Penn Avenue, Pittsburgh, PA 15206, USA http://astmtmc.cmu.edu 412-365-1000

MEMORANDUM:	11-012
DATE:	May 24, 2011
TO:	Leonard Orzech, Chairman, Ball Rust Test Surveillance Panel
FROM:	Michael T. Kasimirsky Michael J. Rasimisky
SUBJECT:	BRT Testing from October 1, 2010 through March 31, 2011

A total of 134 BRT tests were reported to the Test Monitoring Center during the period from October 1, 2010 through March 31, 2011. Following is a summary of testing activity this period.

	Reporting Data
Number of Labs	4

Tests reported this period were distributed as shown below:

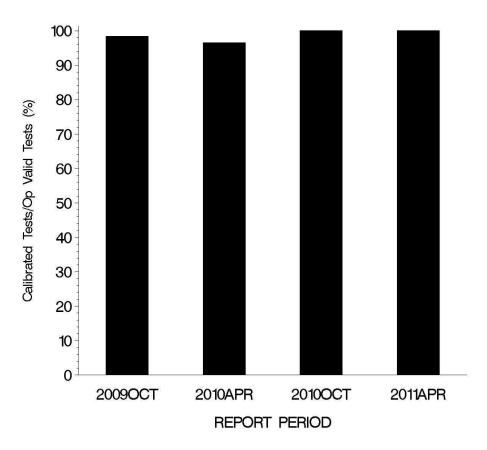


NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD

Test Distribution by Oil and Validity

Distribution by On and Valuey					Totals		
		1006	81	82	This Period	Last Period	
Accepted for Calibration	AC	44	51	39	134	153	
Hardware Qualification Run	NI	0	0	0	0	0	
Unacceptable for Calibration	OC	0	0	0	0	0	
Operationally Invalid (lab)	LC	0	0	0	0	4	
Operationally Invalid (lab/TMC)	RC	0	0	0	0	1	
Aborted Calibration	XC	0	0	0	0	3	
Total		44	51	39	134	161	

OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



The above chart shows the percentage of accepted operationally valid tests. No tests failed to meet the acceptance criteria this period.

Lost Tests per Start by Lab and Oil

		1006			81			82			Total	
Lab	Lost	Starts	%									
Α	0	18	0	0	20	0	0	15	0	0	53	0
В	0	11	0	0	10	0	0	9	0	0	30	0
D	0	0	0	0	3	0	0	3	0	0	6	0
G	0	15	0	0	18	0	0	12	0	0	45	0
Total	0	44	0	0	51	0	0	39	0	0	134	0

Lost tests are those that were aborted or operationally invalid. No tests were lost this period.

Causes for Lost Tests

				Oil			Validity			Loss Rate	
Lab	Lab Cause		1006	81	82	LC	RC	XC	Lost	Starts	%
-	- No lost tests were reported this period									134	0
		Lost	0	0	0	0	0	0			
		Starts	44	51	39	134	134	134			
		%	0	0	0	0	0	0			

Average Δ /s by Lab							
Lab	n	AGVYI					
А	53	0.551					
В	30	0.751					
D	6	1.622					
G	45	0.907					
Industry	134	0.763					

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Individual test results can be found on the TMC Web Page at the following link:

ftp://ftp.astmtmc.cmu.edu/refdata/bench/brt/data/

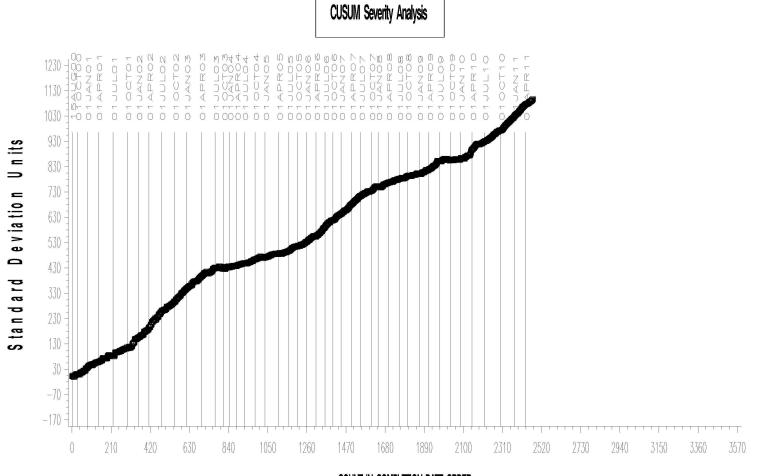
The test has been trending mild since August 2000 at ~ 0.5 standard deviations, which is considered significant. All four laboratories are significantly mild of target for this period. The historical reference pass rate is ~97%. The TMC recommends that an industry correction factor be discussed and that a more robust referencing system be considered to address overly off target laboratories.

CUSUM PLOT

BALL RUST TEST INDUSTRY OPERATIONALLY VALID DATA



REFERENCE AVERAGE GRAY VALUE

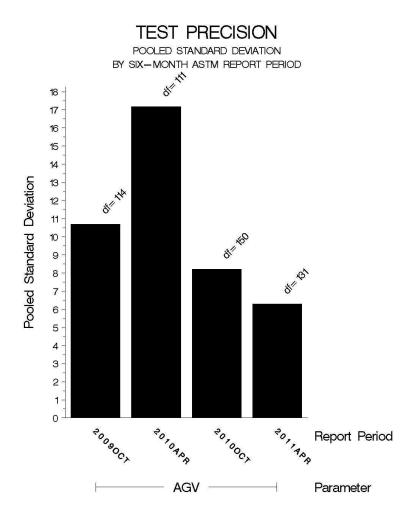


COUNT IN COMPLETION DATE ORDER

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POOLED S:

Pooled s for this period is 6.26. Shown below is a bar chart comparing the pooled s values for AGV over the last four report periods.



STATUS OF REFERENCE OIL SUPPLY:

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

		@ TMC			
Oil	Samples @ Labs	Samples (30 mL)	Gallons		
1006	33	4850	38.8		
81	26	1512	12.1		
82	24	787	6.3		
82-1	8	1225	9.8		
Total	91	8374	67.0		

INFORMATION LETTERS:

No information letters were issued this period.

SUMMARY

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- Over the course of this report period, AGV severity as measured by cusum plotting continued the mild trend that has existed since the inception of the test.
- Precision as measured by pooled standard deviation is better than previous periods.

MTK/mtk/astm0411.doc/mem11-012.mtk.doc

F. M. Farber J. A. Clark BRT Surveillance Panel <u>ftp://ftp.astmtmc.cmu.edu/docs/bench/brt/semiannualreports/brt-04-2011.pdf</u>

Distribution: email