Test Monitoring Center
6555 Penn Avenue
Pittsburgh, PA 15206-4489
(412) 365-1000

MEMORANDUM: 08-039

DATE: May 27, 2008

TO: Leonard Orzech,
Chairman, Ball Rust Test Surveillance Panel

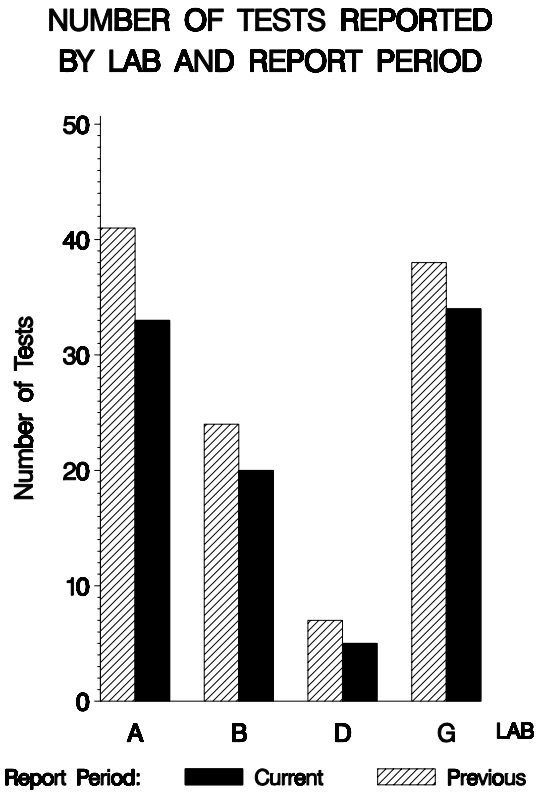
FROM: Scott Parke

SUBJECT: BRT Testing from October 1, 2007 through March 31, 2008

A total of 92 BRT tests were reported to the Test Monitoring Center during the period from October 1, 2007 through March 31, 2008. The data from these tests is shown beginning on page 5. Following is a summary of testing activity this period.

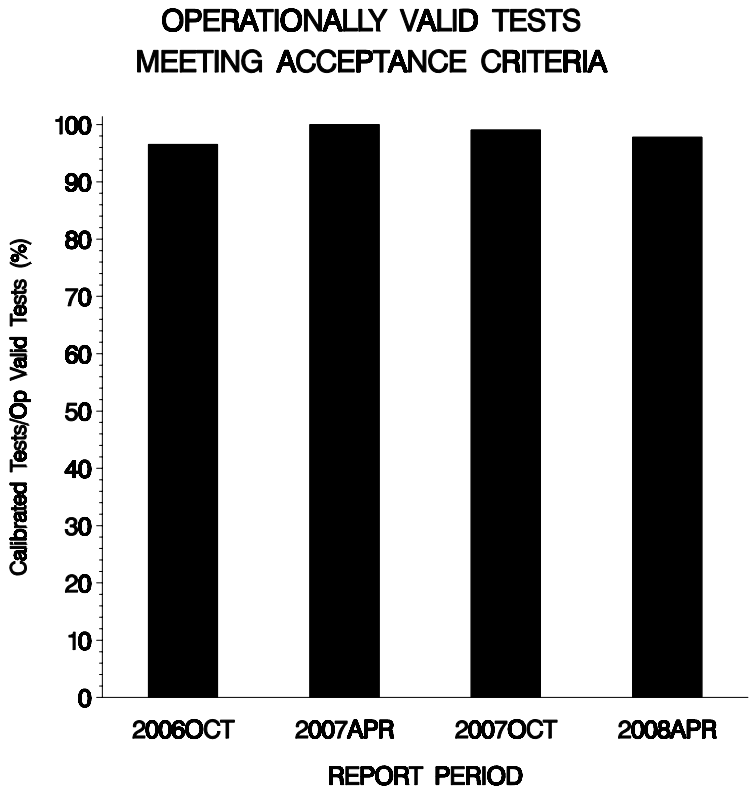
	Reporting Data
Number of Labs	4

Tests reported this period were distributed as shown below:



Test Distribution by Oil and Validity

					Totals	
		1006	**81**	**82**	Last Period	This Period
Accepted for Calibration	AC	25	44	19	103	88
Hardware Qualification Run	NI	0	0	0	0	0
Rejected Mild	OC	0	0	2	0	2
Rejected Severe	OC	0	0	0	1	0
Operationally Invalid (lab)	LC	0	0	2	2	2
Operationally Invalid (lab/TMC)	RC	0	0	0	0	0
Aborted Calibration	XC	0	0	0	4	0
Total		25	44	23	110	92



The above chart shows the percentage of accepted operationally valid tests. Two tests failed to meet the acceptance criteria this period; they were both mild and ran oil 82.

Lost Tests per Start by Lab and Oil

	1006			**81**			**82**			Total		
Lab	Lost	Starts	%	Lost	Starts	%	Lost	Starts	%	Lost	Starts	%
A	0	10	0	0	16	0	0	7	0	0	33	0
B	0	6	0	0	9	0	0	5	0	0	20	0
D	0	1	0	0	2	0	0	2	0	0	5	0
G	0	8	0	0	17	0	2	9	22	2	34	6
Total	0	25	0	0	44	0	2	23	9	2	92	2

Lost tests are those that were either aborted, rejected by lab, or operationally invalid.

Causes for Lost Tests

			Oil			Validity			Loss Rate		
Lab	Cause		1006	81	82	LC	RC	XC	Lost	Starts	%
G	Acid injection failure.				●	●			2	34	6%
	Acid injection failure.				●	●					
		Lost	0	0	2	2	0	0			
		Starts	25	44	23	92	92	92			
		%	0%	0%	9%	2%	0%	0%			

Average Δ/s by Lab

Lab	n	AGVYI
A	33	-0.241
B	20	0.786
D	5	1.508
G	32	0.505
Industry	90	0.349

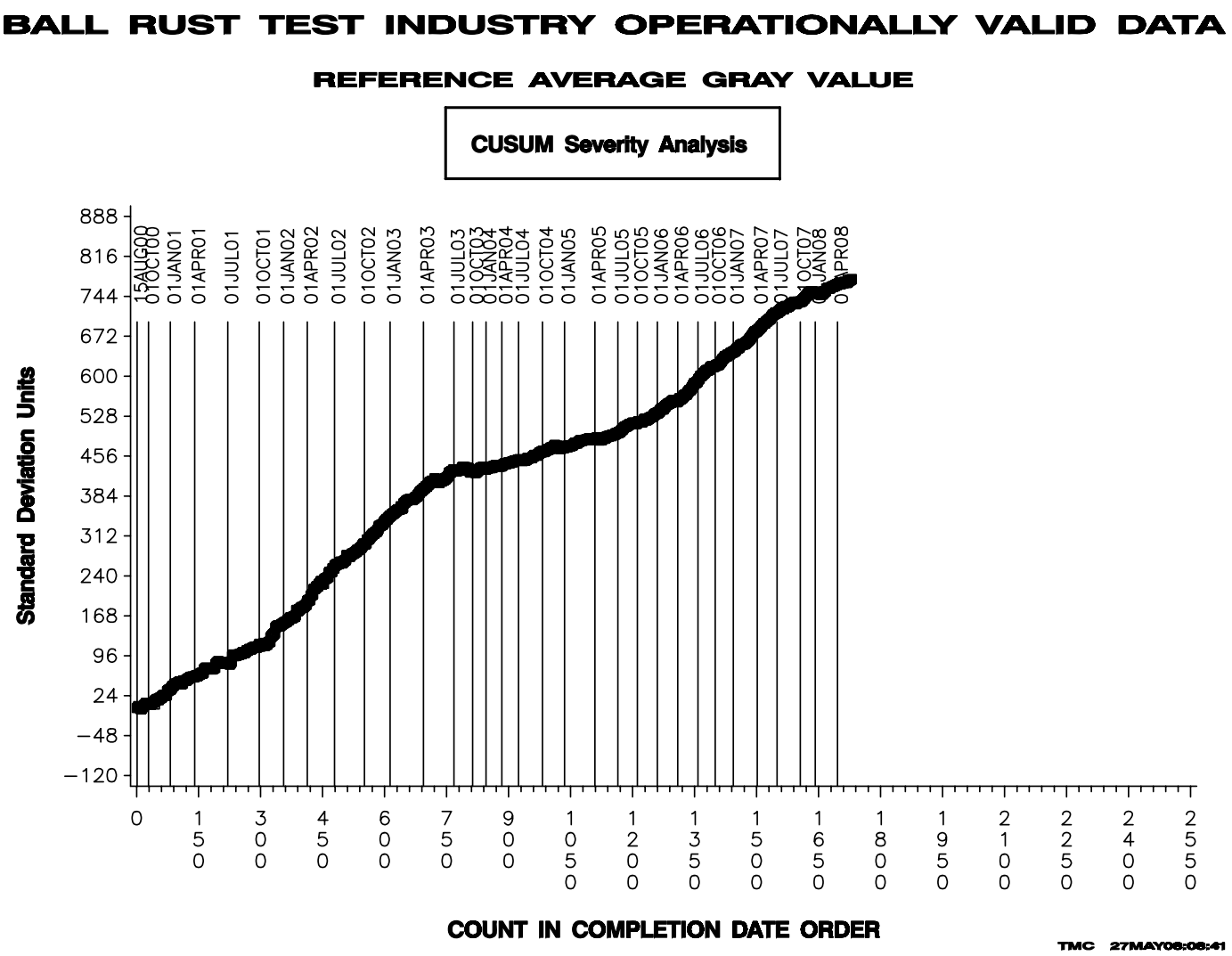
DATA FROM ALL OPERATIONALLY VALID TESTS REPORTED THIS PERIOD:

LTMS DATE	LAB	OIL	AGV	AGVYI
20071003	B	1006	130	0.277
20071004	A	81	126	1.000
20071009	A	1006	127	-0.139
20071010	A	1006	123	-0.693
20071010	B	81	131	1.357
20071011	A	81	127	1.071
20071017	A	81	124	0.857
20071017	B	82	53	0.478
20071019	G	82	60	1.087
20071026	A	81	125	0.929
20071031	G	81	113	0.071
20071101	B	81	131	1.357
20071101	G	81	123	0.786
20071107	B	81	131	1.357
20071108	A	81	126	1.000
20071108	D	82	46	-0.130
20071109	D	81	132	1.429
20071113	G	1006	136	1.110
20071115	B	81	130	1.286
20071115	D	1006	127	-0.139
20071116	G	82	65	1.522
20071127	A	1006	128	0.000
20071128	B	1006	130	0.277
20071129	A	82	58	0.913
20071130	A	81	126	1.000
20071130	G	81	126	1.000
20071205	A	81	104	-0.571
20071205	B	1006	128	0.000
20071211	G	81	111	-0.071
20071214	B	82	58	0.913
20071214	G	1006	116	-1.664
20071218	A	1006	121	-0.971
20071218	G	82	59	1.000
20071219	A	82	40	-0.652
20071220	A	81	86	-1.857
20071221	B	81	126	1.000

LTMS DATE	LAB	OIL	AGV	AGVYI
20080103	B	81	125	0.929
20080103	G	81	117	0.357
20080110	G	81	117	0.357
20080111	A	1006	121	-0.971
20080111	B	82	46	-0.130
20080111	G	1006	119	-1.248
20080116	A	82	40	-0.652
20080116	G	82	60	1.087
20080117	G	81	110	-0.143
20080118	A	81	91	-1.500
20080118	B	1006	132	0.555
20080118	G	1006	117	-1.526
20080119	D	81	135	1.643
20080122	A	81	99	-0.929
20080123	A	1006	119	-1.248
20080125	B	81	132	1.429
20080130	A	81	106	-0.429
20080201	A	81	103	-0.643
20080201	B	82	61	1.174
20080205	G	81	125	0.929
20080208	G	81	127	1.071
20080212	G	82	75	2.391
20080213	A	82	42	-0.478
20080213	G	1006	128	0.000
20080215	B	81	130	1.286
20080215	G	81	117	0.357
20080219	A	81	102	-0.714
20080219	D	82	102	4.739
20080221	A	1006	127	-0.139
20080221	G	81	120	0.571
20080222	B	1006	126	-0.277
20080222	G	82	67	1.696
20080227	G	1006	115	-1.803
20080229	G	81	131	1.357
20080229	A	82	37	-0.913
20080304	G	1006	133	0.693
20080307	A	1006	123	-0.693
20080307	B	81	132	1.429
20080307	G	81	121	0.643
20080313	G	81	121	0.643
20080314	B	1006	130	0.277
20080318	A	81	124	0.857
20080318	G	1006	119	-1.248
20080319	A	81	122	0.714
20080320	A	82	42	-0.478
20080320	G	82	68	1.783
20080322	A	82	42	-0.478
20080325	A	81	121	0.643
20080325	G	81	130	1.286
20080326	A	1006	121	-0.971

LTMS DATE	LAB	OIL	AGV	AGVYI
20080326	G	81	127	1.071
20080327	B	82	56	0.739
20080328	A	1006	122	-0.832
20080328	G	81	126	1.000

CUSUM PLOT


BALL RUST TEST INDUSTRY OPERATIONALLY VALID DATA
REFERENCE AVERAGE GRAY VALUE
CUSUM Severity Analysis
Standard Deviation Units
888
816
744
672
600
528
456
384
312
240
168
96
24
−48
−120
15AUG00
01OCT00
01JAN01
01APR01
01JUL01
01OCT01
01JAN02
01APR02
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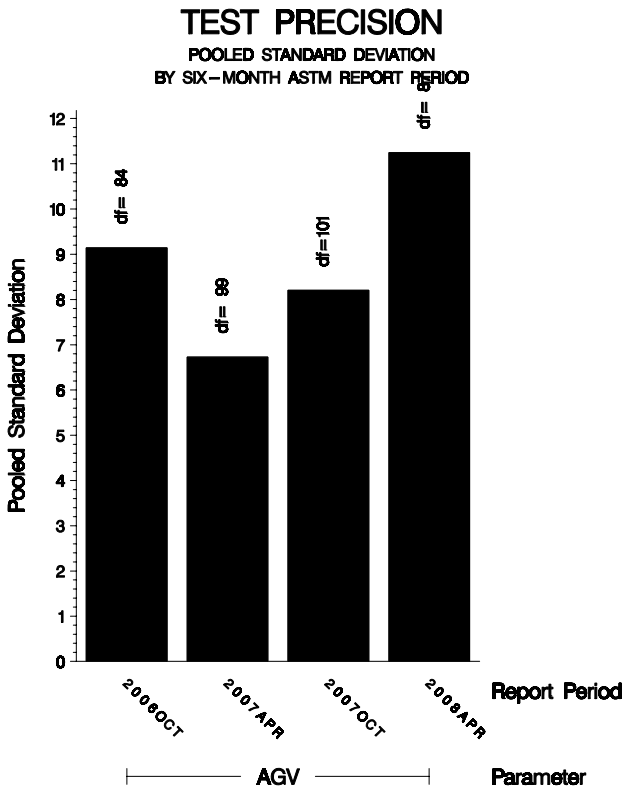
01JAN07
01APR07
01JUL07
01OCT07
01JAN08
01APR08
0
150
300
450
600
750
900
1050
1200
1350
1500
1650
1800
1950
2100
2250
2400
2550
COUNT IN COMPLETION DATE ORDER
TMC 27MAY08:08:41

POOLED S:

Pooled s for this period is 11.24. Shown below is a bar chart comparing the pooled s values for AGV over the last four report periods. Where degrees of freedom equal zero, no bars will be shown. This will occur where only one test was reported or where multiple tests are reported but all are on different oils. Periods showing no information had no tests reported.



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	Cans @ Labs	Cans	Gallons
1006	29	5095	40.8
81	42	1835	14.7
82	31	977	7.8
Total	102	7907	63.3

* Future reblends of oils marked with an asterisk are not obtainable by TMC.

INFORMATION LETTERS:
Information Letter 07-01 was issued during this report period. It covered clarification of gassing manifold terminology, relaxation of flowmeter specification, modified drying time requirement, added requirement for system warming, removal of hardcopy test report requirement for TMC, and various editorial changes.

SUMMARY

- 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 comparable to previous periods.

SDP/sdp/astm0408.doc/mem08-039.sdp.doc
c: J. L. Zalar
F. M. Farber
M. T. Kasimirsky
BRT Surveillance Panel
ftp://ftp.astmtmc.cmu.edu/docs/bench/brt/semiannualreports/brt-04-2008.pdf

Distribution: email