MEMORANDUM: 06-068

DATE: October 4, 2006

TO: Gil Reinhard, Chairman, CBT Surveillance Panel

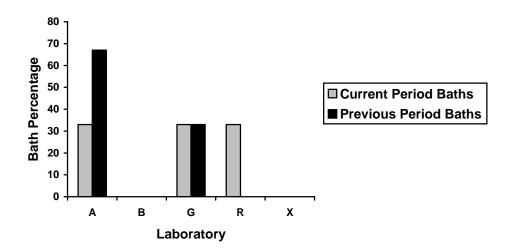
FROM: Jeff Clark

SUBJECT: Corrosion Bench Test Status for the October 2006 ASTM Report Period

A total of 24 Corrosion Bench Test results from three baths in three labs were reported to the TMC during the October 2006 ASTM report period, which began on April 1, 2006 and ended on September 30, 2006.

The following chart shows the distribution by laboratory.

Laboratory/Bath Distribution



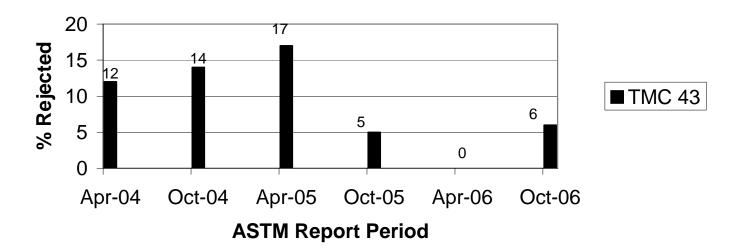
The following	summarizes the statu	is of the reference	oil tests re	norted to the TMC:
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	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	16
Failed Acceptance Criteria	OC	1
Operationally Invalid	LC	1
Operationally Invalid, submitted by lab as Valid	RC	5
Aborted	XC	1
Total		24

The test that failed the acceptance criteria (OC validity) was due to severe Pb. One operationally invalid test (LC validity) was due to a bath temperature failure. Five invalid tests (RC validity) were submitted as valid by a new laboratory that failed to use the specified test coupons. One test was aborted (XC validity) due to incorrect air pressure.

The following presents the fail rate for this period with the fail rates of previous periods.

Comparison of Rejection Rates for This Period Versus Previous Periods



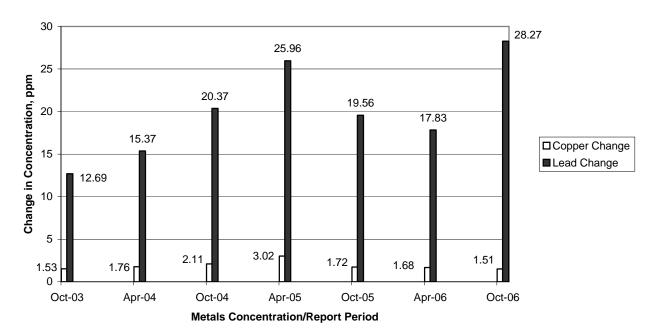
Industry Severity and Precision

The current severity for the change in metals concentration parameters on all operationally valid tests, for the current and previous periods, is tabulated below.

Period	n	Δ Cu	ΔPb
		Mean Δ/s	Mean Δ/s
4/1/06 through 9/30/06	17	-0.22	0.11
10/1/05 through 3/31/06	16	-0.30	0.02
4/1/05 through 9/30/05	21	-0.16	-0.14
10/1/04 through 3/31/05	23	-0.50	-1.17
4/1/04 through 9/30/04	29	0.04	0.38

Figures 1 and 2 plot the Summation delta/s from target for change in copper and change in lead, respectively. Copper change is trending slightly mild and lead change is trending slightly severe for the period. Precision estimates, by report period are depicted below. Precision for Cu change continues to show improvement compared to recent periods. Precision for Pb change shows degradation compared to recent and historical estimates (see chart below).

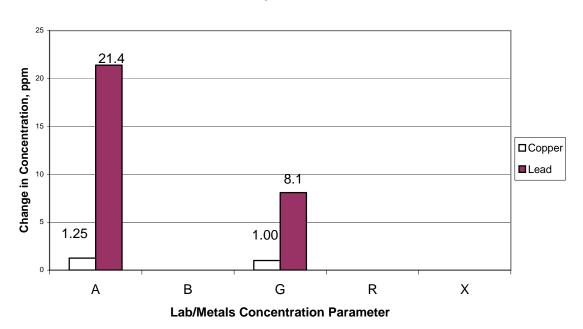
Precision Estimates by ASTM Report Period



Laboratory Severity and Precision

The following plot shows the precision for this period, by lab.

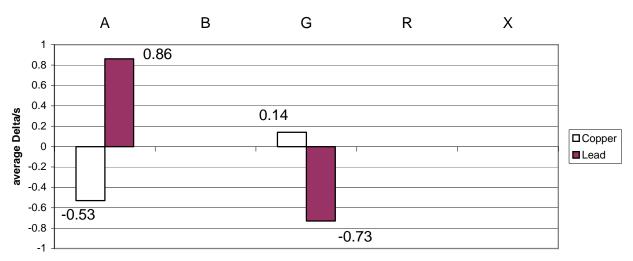
Precision By Lab, TMC Oil 43



Precision estimates for both Copper and Lead show better precision at lab G. Precision estimates are not available for labs B, R, and X (no test activity).

The following plot shows the average Δ /s by laboratory and concentration parameter for this ASTM report period.

Average Delta/s By Lab, TMC Oil 43



Lab/Metals Concentration Parameter

Memo 06-068 Page 5

For copper, Lab A was mild compared to Lab G. For lead, Lab G was mild compared to Lab A.

Reference Oil Supply

Reference oil quantities available at the laboratories and TMC, as well as estimated life of these oils, are tabulated below.

Oil	TMC Inventory, in	TMC Inventory, in	Laboratory	Estimated life
	gallons	tests	Inventory, in tests	
43	54.7	~1750	32	10+ Years

Information Letters

No Information Letters were issued this period.

Additional Information

The CBT database is available on the TMC's website. If you have any questions on how to access this information, contact the TMC.

JAC/jac/mem06-068.jac.doc

c: CBT Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/bench/cbt/semiannualreports/cbt-10-2006.pdf

J. L. Zalar

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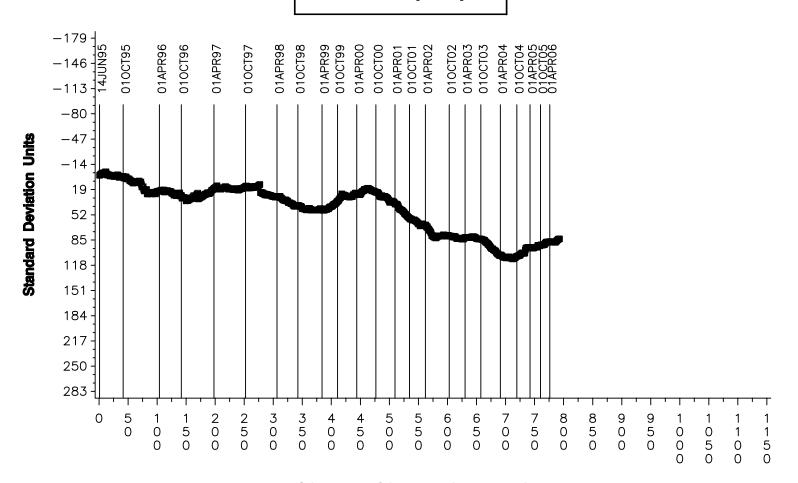
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Figure 1

CBT INDUSTRY OPERATIONALLY VALID DATA

COPPER CHANGE (ppm)

CUSUM Severity Analysis



COUNT IN COMPLETION DATE ORDER

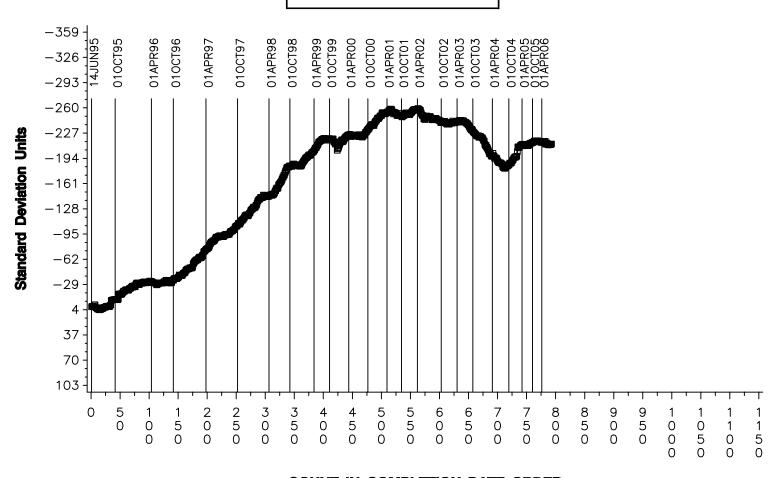
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Figure 2

CBT INDUSTRY OPERATIONALLY VALID DATA

LEAD CHANGE (ppm)

CUSUM Severity Analysis



COUNT IN COMPLETION DATE ORDER

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