



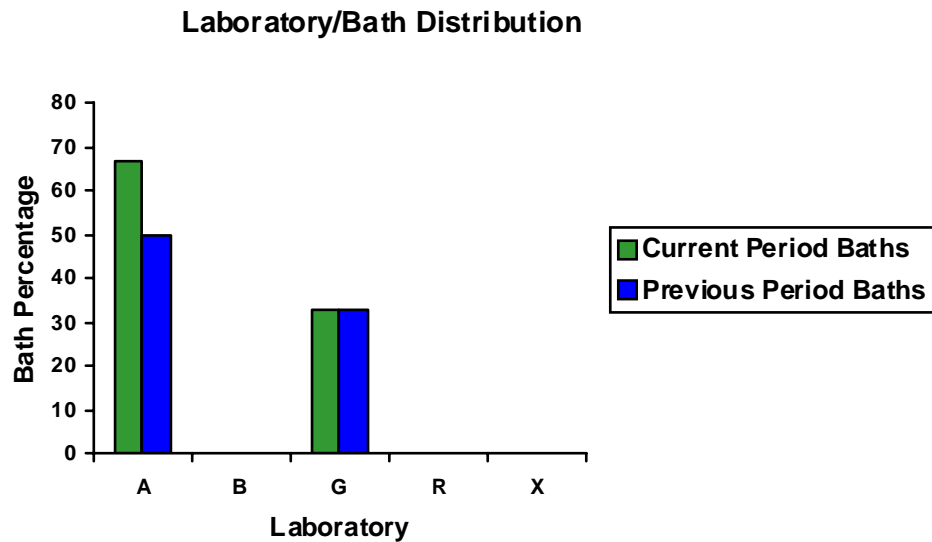
Test Monitoring Center

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Pittsburgh, PA 15206-4489
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MEMORANDUM: 08-029
DATE: April 21, 2008
TO: Gil Reinhard, Chairman, CBT Surveillance Panel
FROM: Jeff Clark
SUBJECT: Corrosion Bench Test Status for the April 2008 ASTM Report Period

A total of 30 Corrosion Bench Test results from three baths in two labs were reported to the TMC during the April 2008 ASTM report period, which began on October 1, 2007 and ended on March 31, 2008.

The following chart shows the distribution by laboratory.



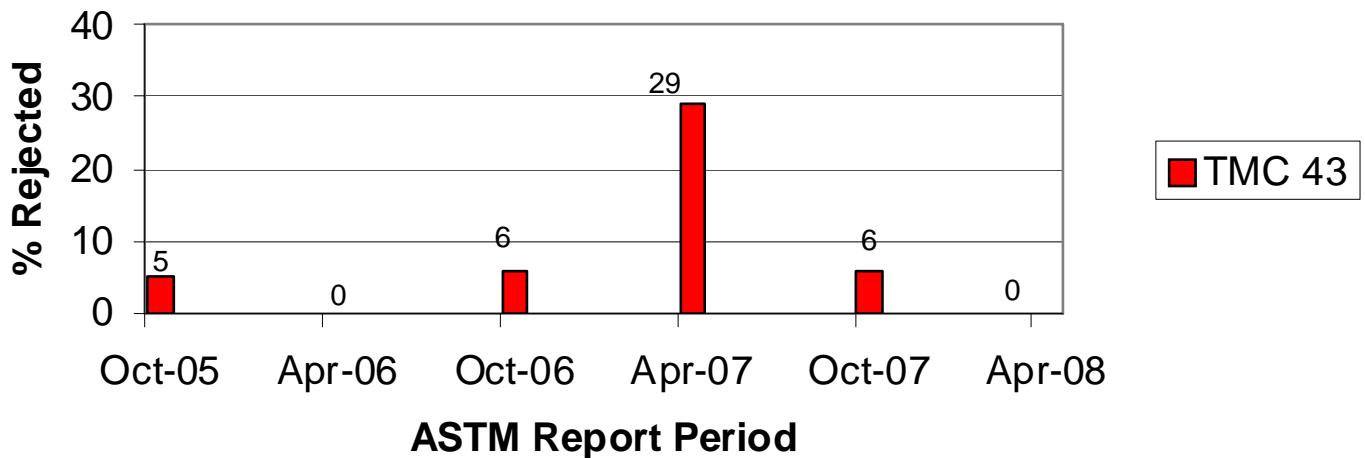
The following summarizes the status of the reference oil tests reported to the TMC:

	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	10
Failed Acceptance Criteria	OC	0
Operationally Invalid	LC, RC	1
Aborted	XC	0
Acceptable Donated Tests	AG	12
Unacceptable Donated Tests	MG	7
Total		30

The donated tests were run as part of the process for approving a new batch of test coupons. Tables 1, 2, and 3 (attached) summarize any failed, invalid and aborted tests.

The following presents the fail rate for this period with the fail rates of previous periods. The increase in rejection rate the previous period was due to a new laboratory that failed five tests.

Comparison of Rejection Rates for This Period Versus Previous Periods



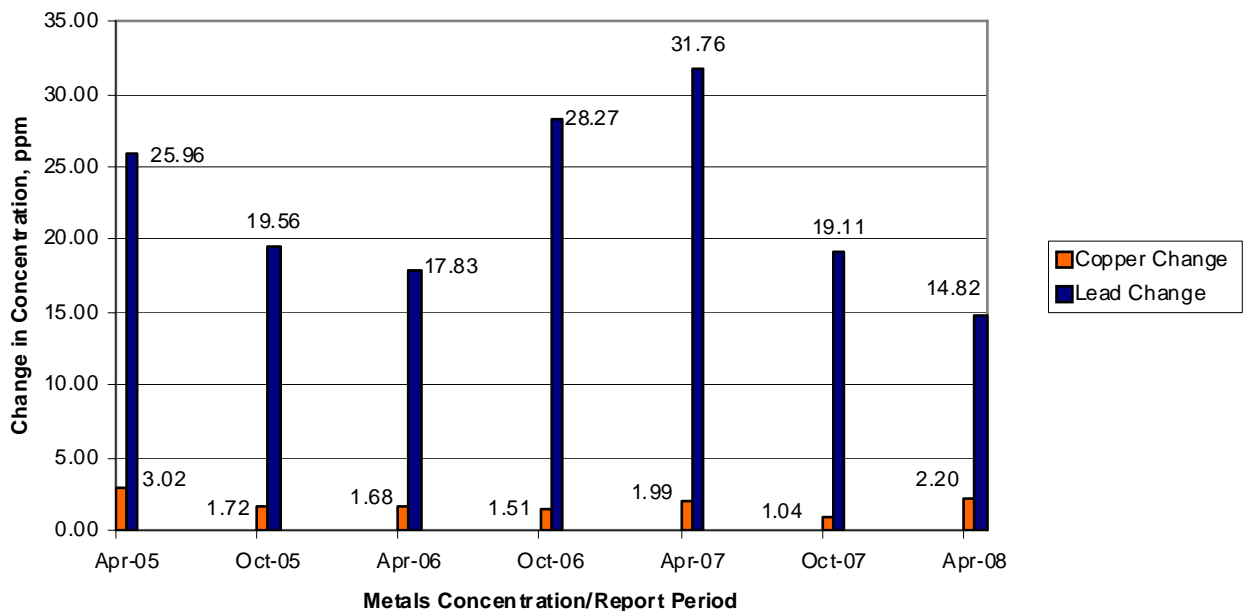
Industry Severity and Precision

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 Mean Δ/s	Δ Pb Mean Δ/s
10/1/07 through 3/31/08	11	-1.08	-0.58
4/1/07 through 9/30/07	17	-0.79	-0.36
10/1/06 through 3/31/07	29	-1.18	0.02
4/1/06 through 9/30/06	17	-0.22	0.11
10/1/05 through 3/31/06	16	-0.30	0.02

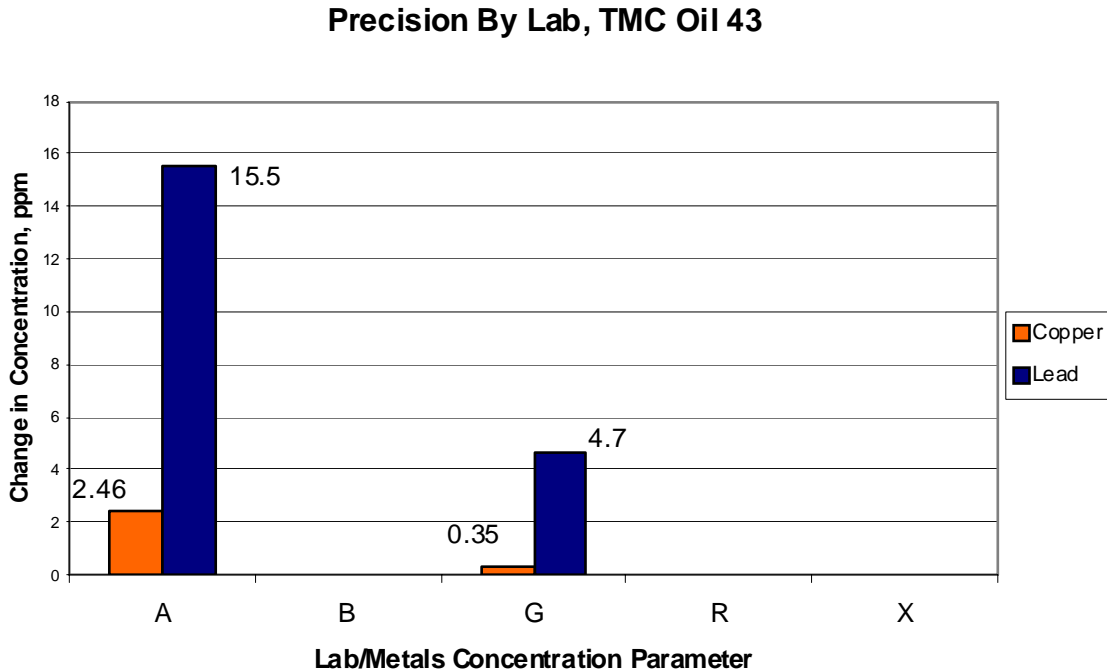
Figures 1 and 2 plot the Summation delta/s from target for change in copper and change in lead, respectively. Both copper and lead change are trending mild for the period. Precision estimates, by report period are depicted below. Precision estimates for both Cu and Pb are within historical levels, though in comparison to recent periods, Cu shows some degradation and Pb shows some improvement.

Precision Estimates by ASTM Report Period



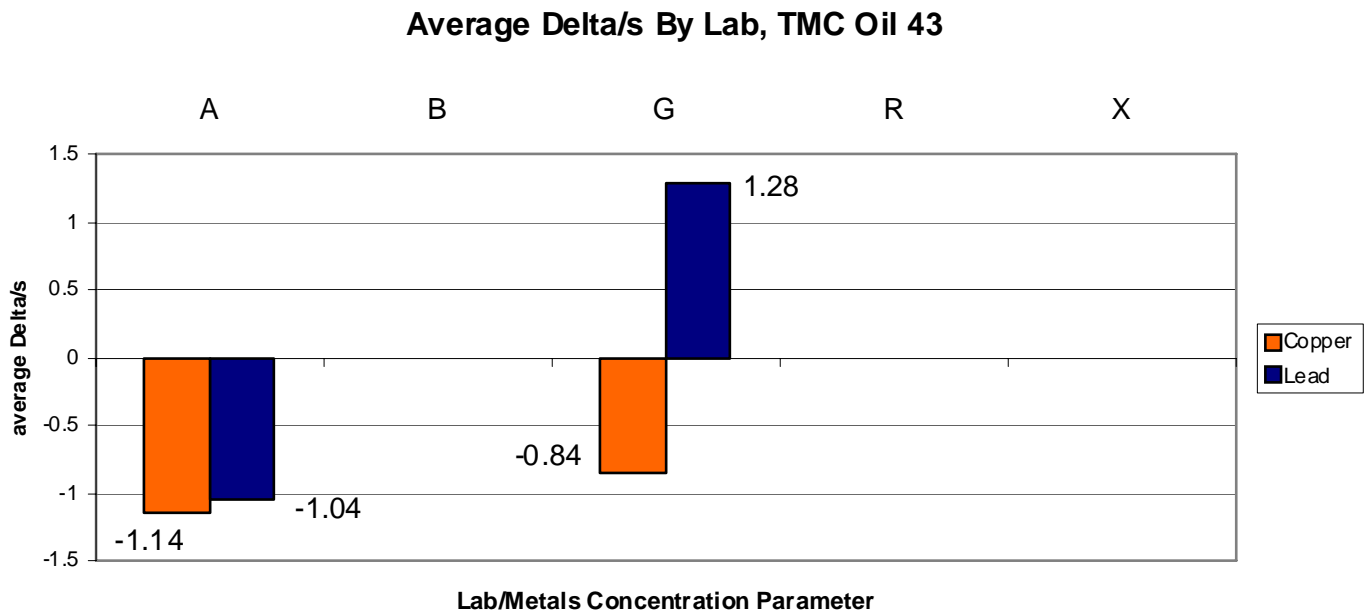
Laboratory Severity and Precision

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



Precision estimates for Copper and Lead show better precision at Lab G than Lab A. 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.



For both Copper and Lead, Lab A was mild compared to Lab G.

Reference Oil and Hardware:

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

Oil	TMC Inventory, in gallons	TMC Inventory, in tests	Laboratory Inventory, in tests	Estimated life
43	51.8	~1657	23	10+ Years

A new batch of test coupons, Batch G, has been approved for use. Reference tests with Batch G coupons will be evaluated with the current test targets until enough tests have been run to reset the targets, if necessary. The current reference oil acceptance bands are shown in the table below.

Oil	Copper Change (ppm)	Lead Change (ppm)
43	12.4 – 24.2	68.5 – 127.3

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/mem08-029.jac.doc

c: CBT Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/bench/cbt/semiannualreports/cbt-04-2008.pdf>

J. L. Zalar

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Distribution: Email

Table 1
Summary of Reasons for Failed Tests

	No. of Tests
No failed tests	-

Table 2
Summary of Reasons for Invalid Tests

	No. of Tests
Test run with unapproved coupons (RC validity)	1
Donated tests run with wrong coupon batch	7

Table 3
Summary of Reasons for Aborted Tests

	No. of Tests
No aborted tests	-

Figure 1
CBT INDUSTRY OPERATIONALLY VALID DATA

COPPER CHANGE (ppm)

CUSUM Severity Analysis

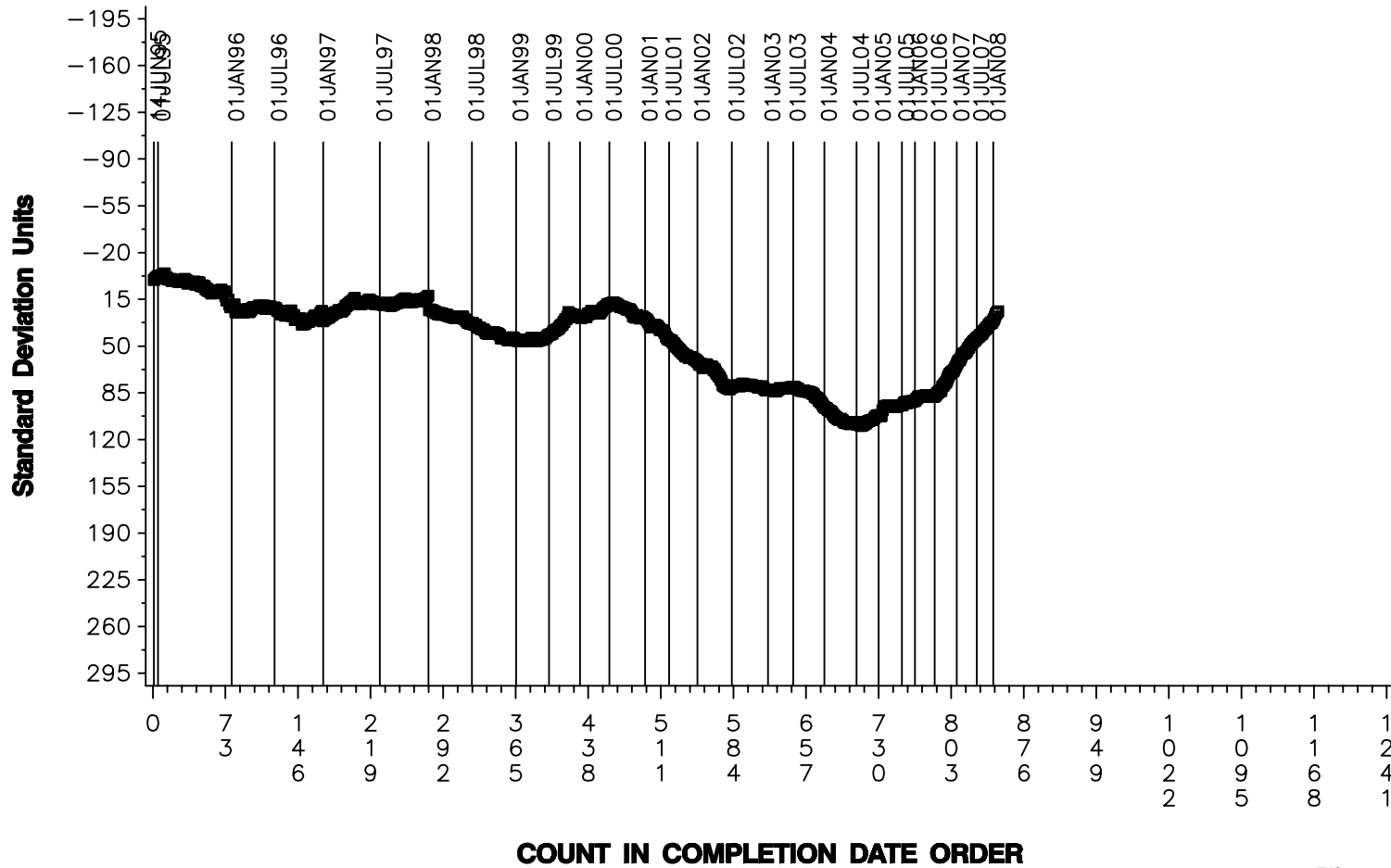


Figure 2
CBT INDUSTRY OPERATIONALLY VALID DATA

LEAD CHANGE (ppm)

CUSUM Severity Analysis

