



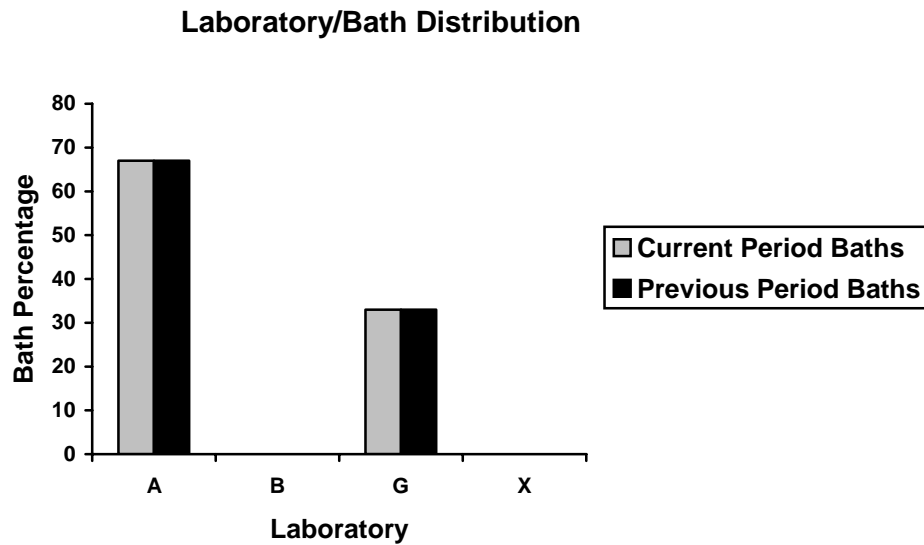
# Test Monitoring Center

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MEMORANDUM: 06-013  
DATE: April 3, 2006  
TO: Gil Reinhard, Chairman, CBT Surveillance Panel  
FROM: Jeff Clark  
SUBJECT: Corrosion Bench Test Status for the April 2006 ASTM Report Period

A total of 18 Corrosion Bench Test results from three baths in two labs were reported to the TMC during the April 2006 ASTM report period, which began on October 1, 2005 and ended on March 31, 2006.

The following chart shows the distribution by laboratory.



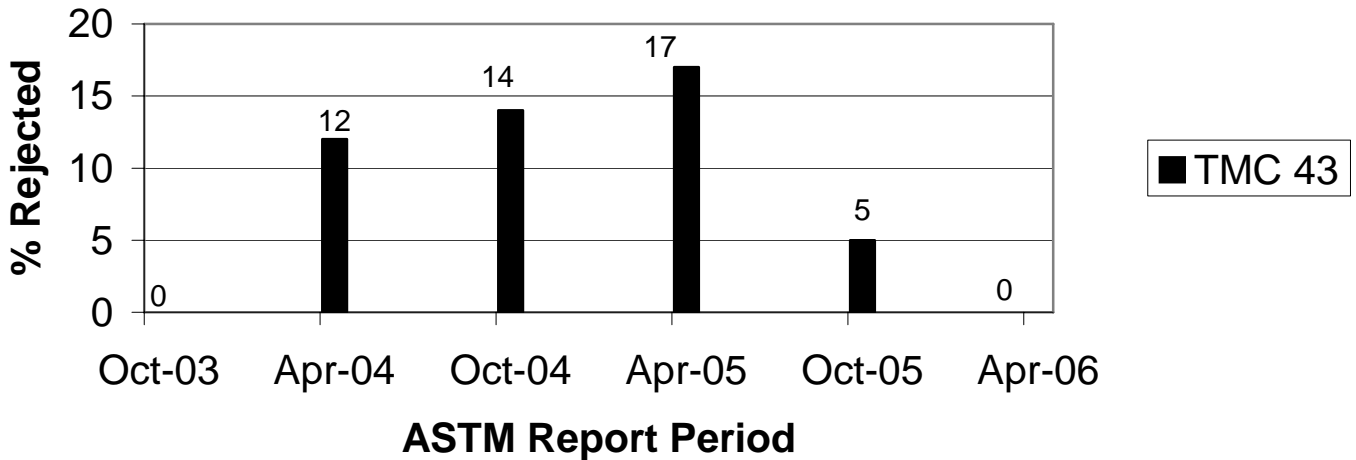
The following summarizes the status of the reference oil tests reported to the TMC:

	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	16
Failed Acceptance Criteria	OC	0
Operationally Invalid	LC	2
Aborted	XC	0
<b>Total</b>		<b>18</b>

One operationally invalid test (LC validity) was due to improper sample preparation and one was due to a disconnected water hose.

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

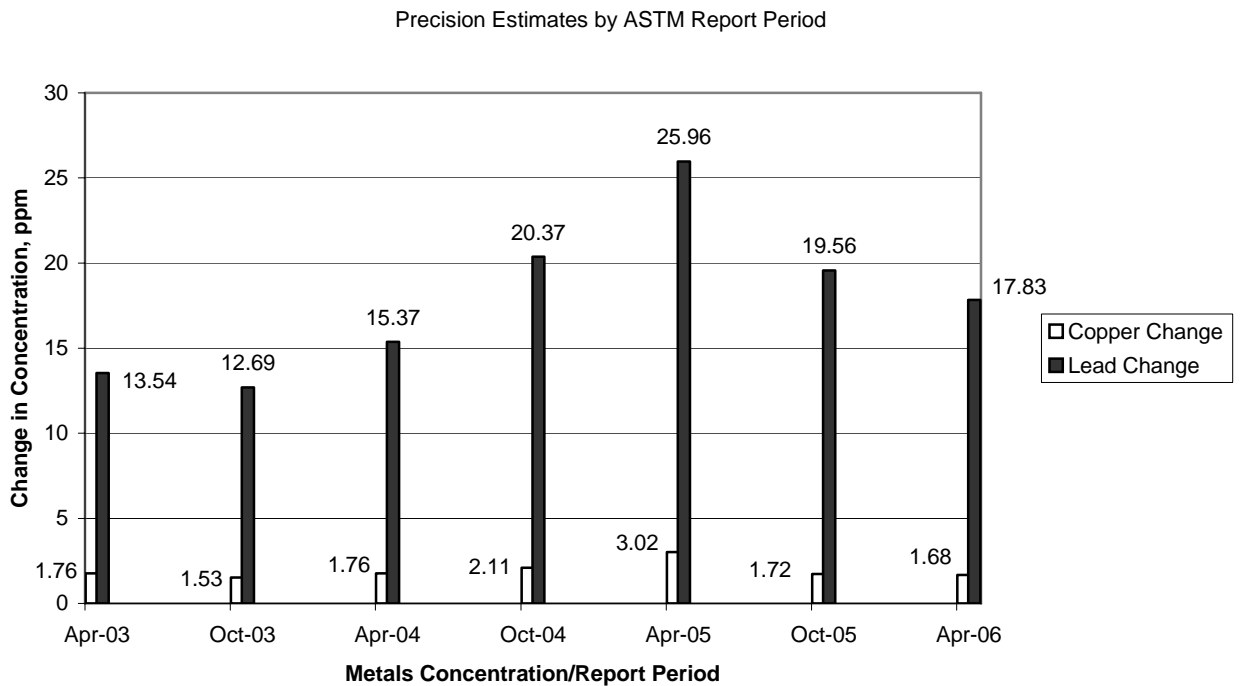


Industry Severity and Precision

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

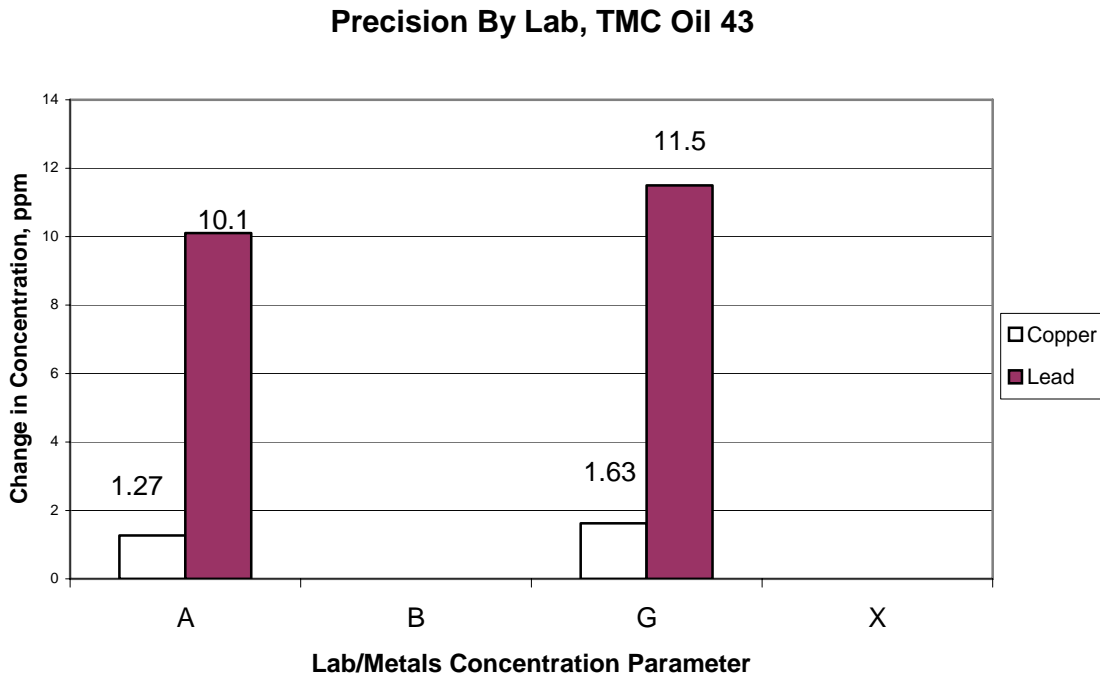
Period	n	$\Delta$ Cu Mean $\Delta/s$	$\Delta$ Pb Mean $\Delta/s$
10/1/05 through 3/31/06	16	-0.30	0.02
4/1/05 through 9/30/05	21	-0.16	-0.14
10/1/04 through 3/31/05	23	-0.50	-1.17
4/1/04 through 9/30/04	29	0.04	0.38
10/1/03 through 3/31/04	33	0.64	1.03

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



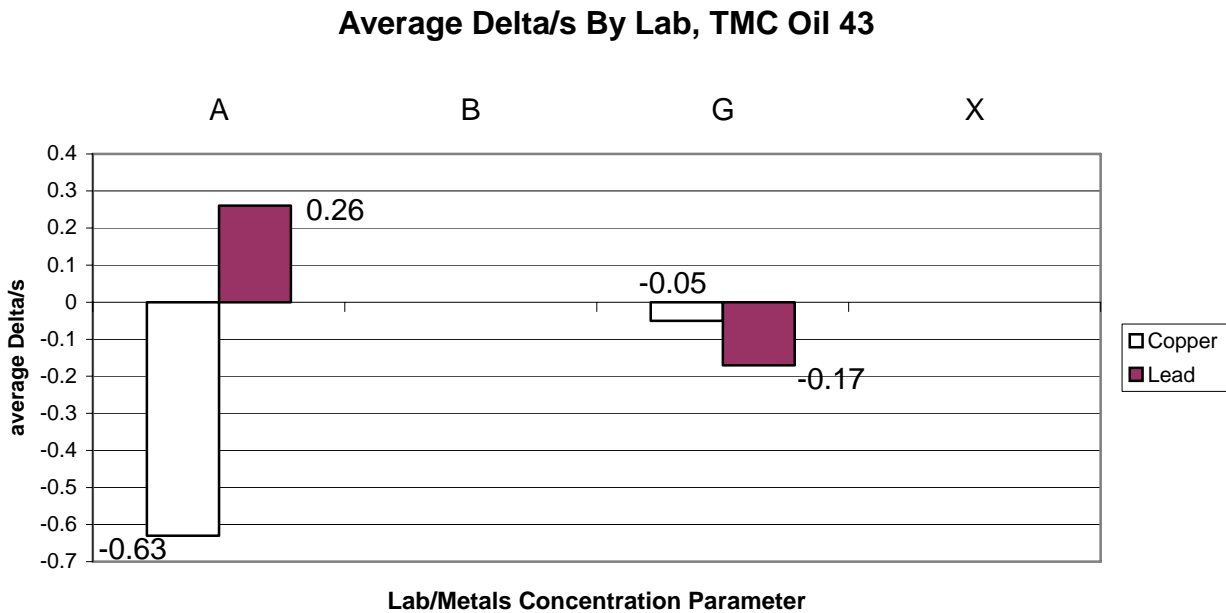
Laboratory Severity and Precision

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



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

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



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 gallons	TMC Inventory, in tests	Laboratory Inventory, in tests	Estimated life
43	55.0	~1780	20	10+ Years

#### Information Letters

Information Letter 05-1, Sequence No. 9 was issued November 14, 2005. The letter updated the precision estimate for the test method and removed the requirement to measure evaporation loss.

#### 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/mem06-013.jac.doc

c: CBT Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/bench/cbt/semiannualreports/cbt-04-2006.pdf>

J. L. Zalar

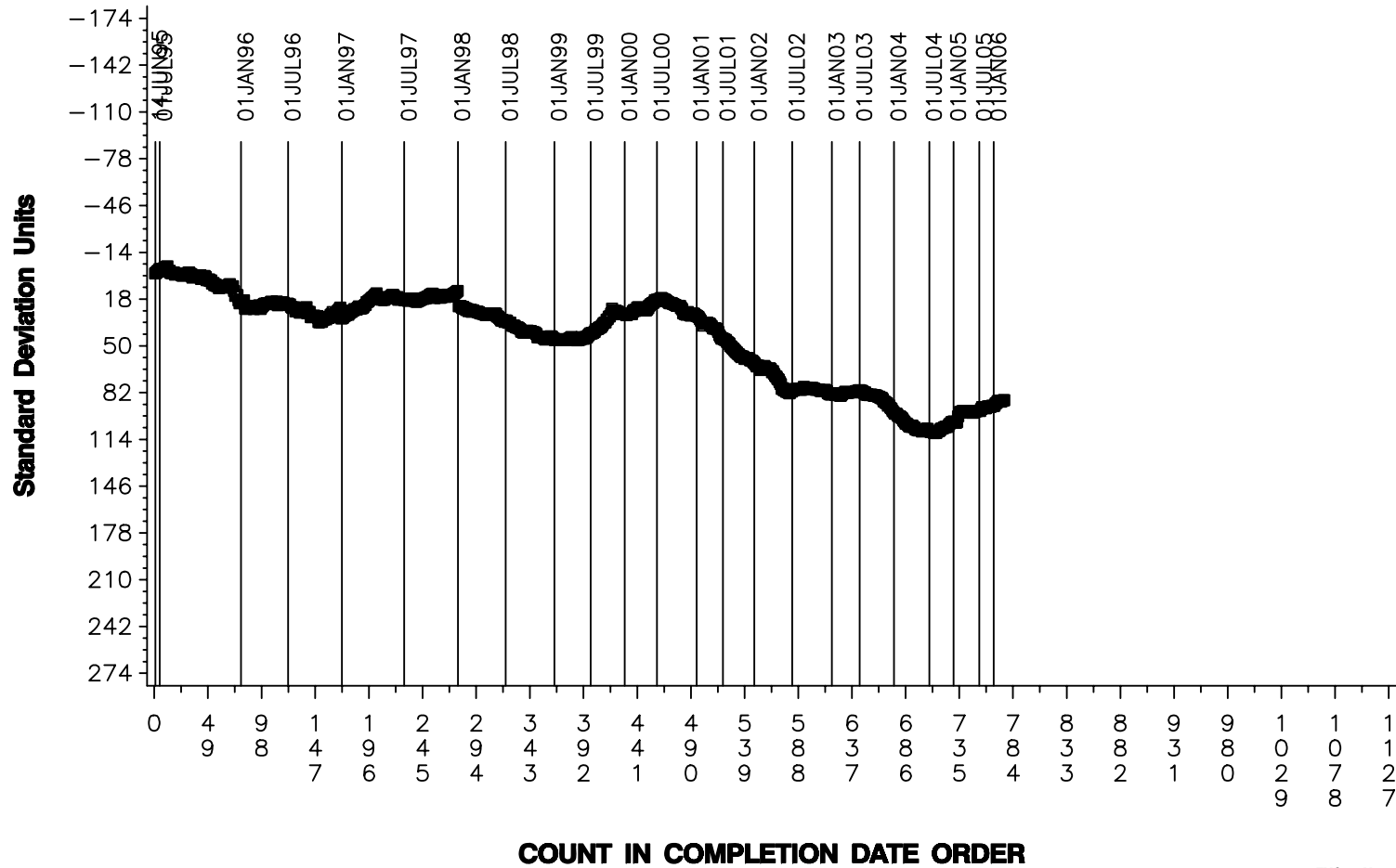
F. M. Farber

Distribution: Email

**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**

