



Test Monitoring Center

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MEMORANDUM: 03-022

DATE: April 4, 2003

TO: Dale Smith, Chairman, L-33-1 Surveillance Panel

FROM: Donald Lind

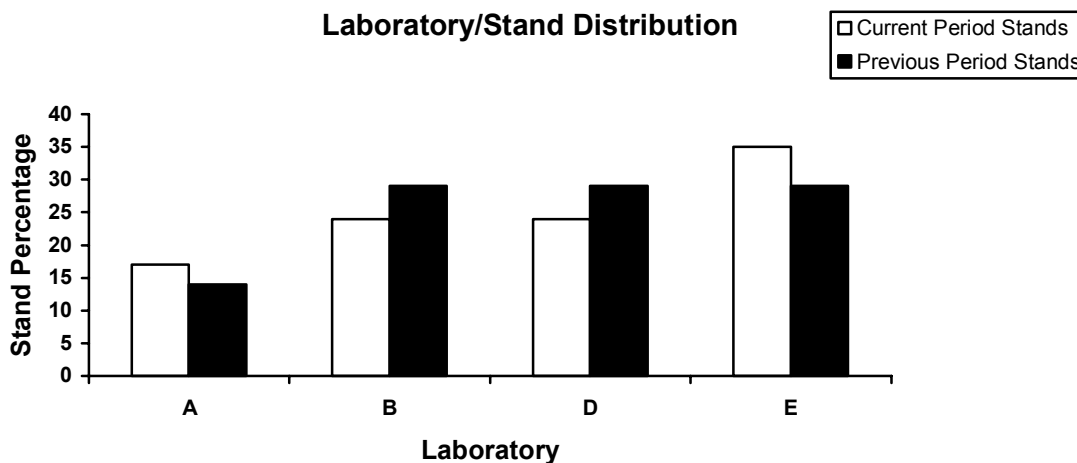
SUBJECT: L-33-1 Reference Test Status from October 1, 2002 through March 31, 2003

The following is a summary of the L-33-1 reference oil tests that were reported to the Test Monitoring Center during the period October 1, 2002 through March 31, 2003.

Lab and Stand Summary

	Reporting Data	Calibrated as of 3/31/03
Number of Laboratories	4	4
Number of Storage Boxes	17	12

The following chart shows the laboratory/stand distribution:

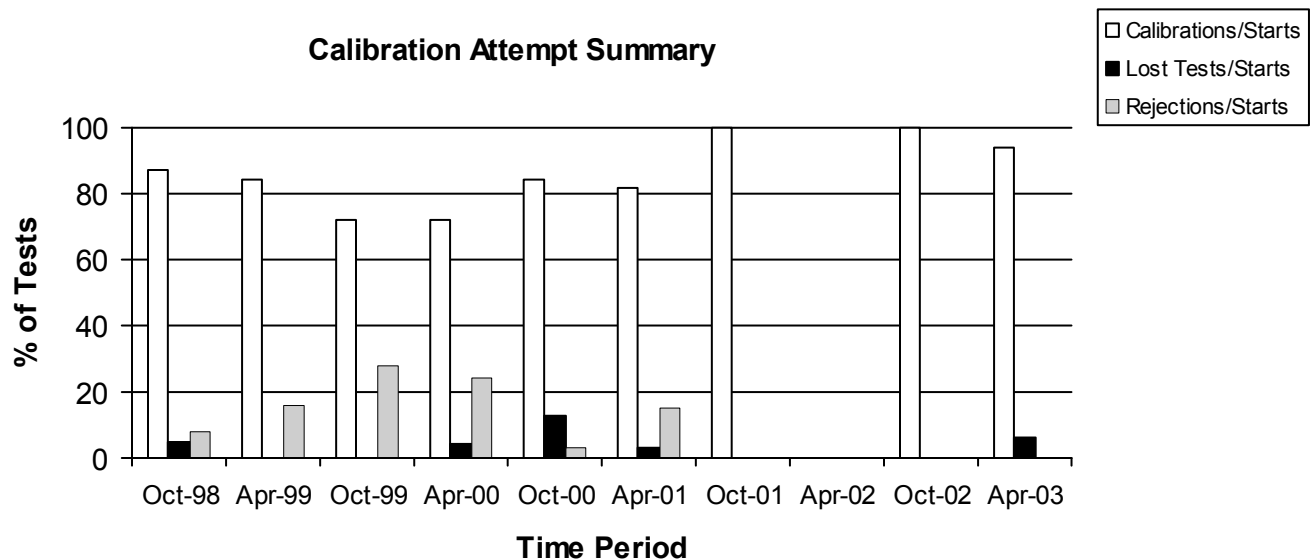


The following summarizes the status of the reference oil tests reported to the TMC:

	TMC Validity Codes	No. of Tests
Operationally and Statistically Acceptable	AC	30
Failed Acceptance Criteria	OC	0
Operationally Invalid (Lab Judgement)	LC	0
Operationally Invalid (Lab / TMC Judgement)	RC	0
Aborted	XC	2
Total		32

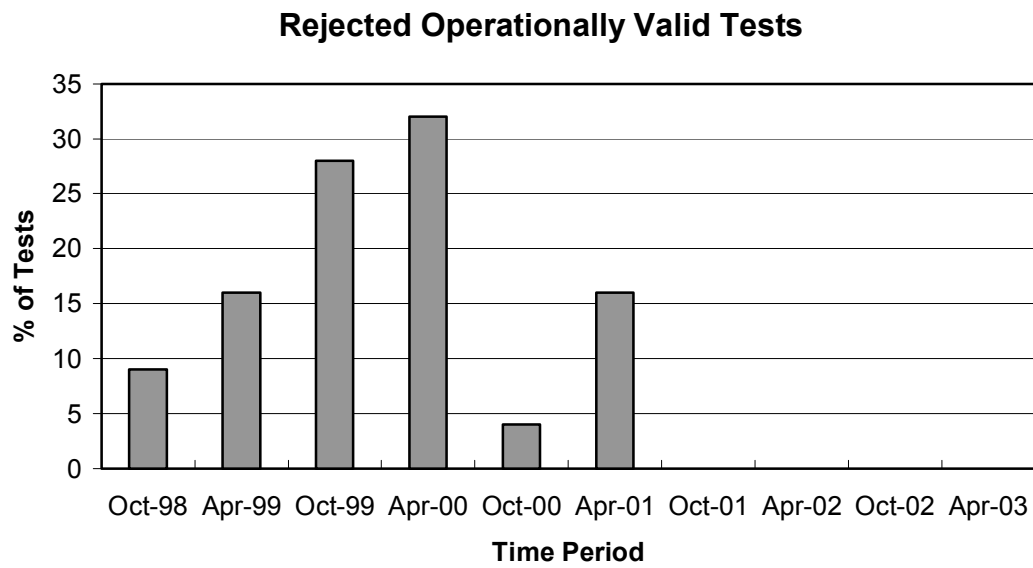
There were 8 additional tests conducted to evaluate new hardware.

Calibrations per start, lost tests per start and rejection per start rates are summarized below:

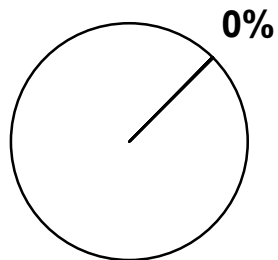


The calibrations per start, lost test per start, and rejected test per start rates compare well historically.

There were no statistically rejected tests this report period.



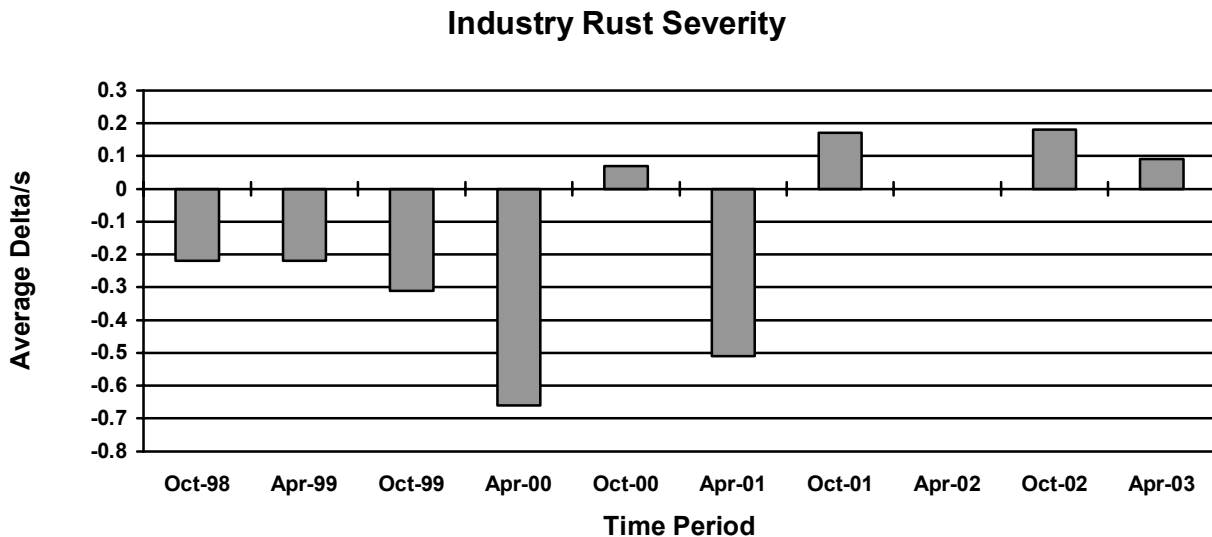
Distribution of LTMS Stand Alarms



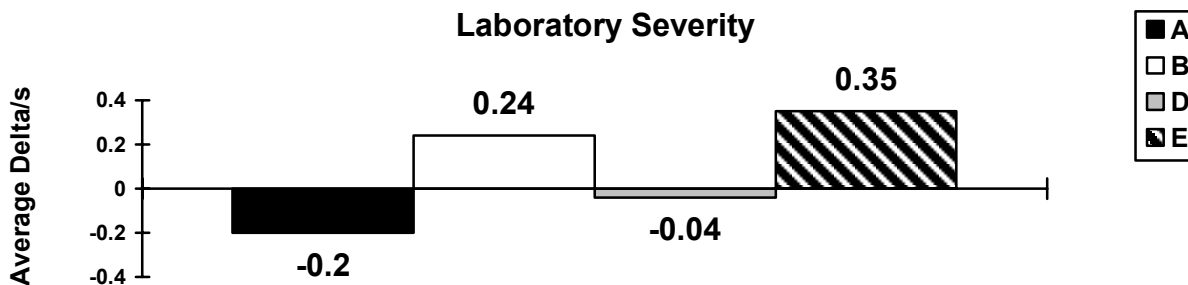
There were no tests that failed the acceptance criteria this report period.

Severity and Precision

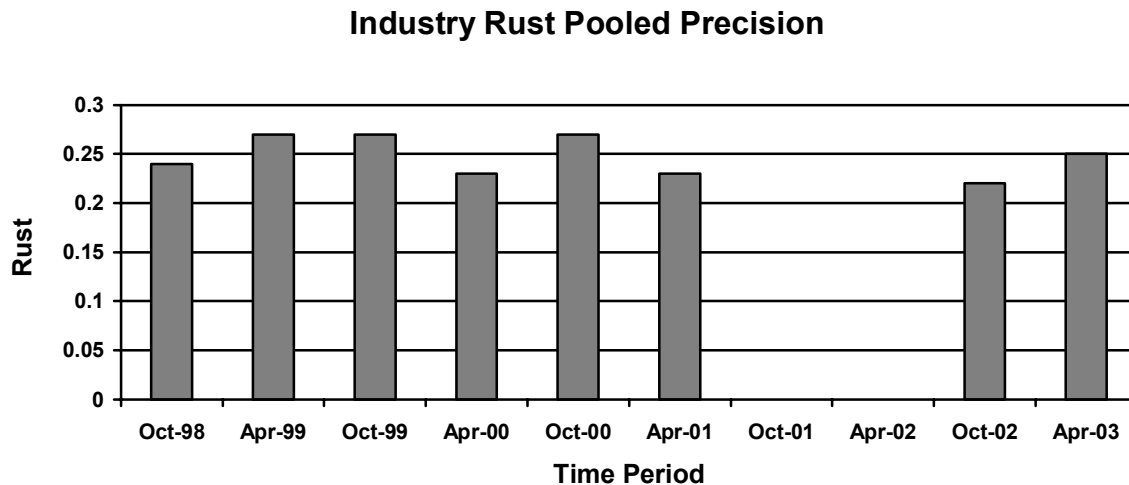
A total of 30 operationally valid test results were reported this period. The mean delta/s for this period is 0.09 mild, which equates to 0.02 merits. Of the 30 operationally valid tests reported this period, 23 were conducted on V99.1 hardware (0.15 mild) and 7 on V01.1 (-0.09 severe). Severity for the 30 operationally valid test results is slightly mild of target as indicated in the chart below and Figure 1. The comparison with previous periods is shown below:



Shown below is a summary of the average rust Δ /s for all laboratories reporting data this report period.



The industry precision estimate for this report period is 0.25 merits (pooled s). Comparisons with previous periods are shown below:



Industry Control Charts

Figure 1 is the Industry EWMA severity and precision chart of tests completed through March 31, 2003. There were no EWMA severity or precisions alarms triggered this report period.

TMC Lab Visits

There were two lab visits conducted this report period. During the lab visits, one discrepancy was noted at each lab. The start time for the warm-up section of the test was not being recorded as per Section 11.1.3 of the test procedure. This discrepancy was noted during both lab visits.

Information Letters

There was one information letter issued this report period. Information Letter 02-01, Sequence Number 1 was issued on December 6, 2002. Items changed with this information letter are documented in the L-33-1 timeline (Table 1).

Reference Oils

The following is a listing of reference oils with the expected number of tests remaining at the Test Monitoring Center and at the testing laboratories. L-33-1 reference oils are shipped in quantities of 1 gallon per test.

Reference Oil	Lab A	Lab B	Lab D	Lab E	TMC
123	7	7	7	7	20
123-1	0	0	0	0	0
123-2	2	4	5	5	253
151-3	9	6	6	6	*

* 327 Gallons (Multiple test area usage)

Attachments

c: L-33-1 Surveillance Panel

<ftp://www.astmtmc.cmu.edu/docs/gear/l331/semiannualreports/l331-04-2003.pdf>

J. L. Zalar

F. M. Farber

Distribution: Email

Listing of Tables and Figure Included as Part of This Report to the L-33-1 Surveillance Panel

Table 1 is the L-33-1 Industry Timeline

Figure 1 is the Industry Control Chart for L-33-1 Rust

Table 1
L-33-1 Industry Timeline

[illegible]

L-33-1 INDUSTRY OPERATIONALLY VALID DATA

ORIGINAL RUST CORROSION MERIT RATING

