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

MEMORANDUM: 02-077

DATE: October 3, 2002

TO: Brian Koehler, Chairman, High Temperature Cyclic Durability Test Surveillance Panel

FROM: Donald Lind

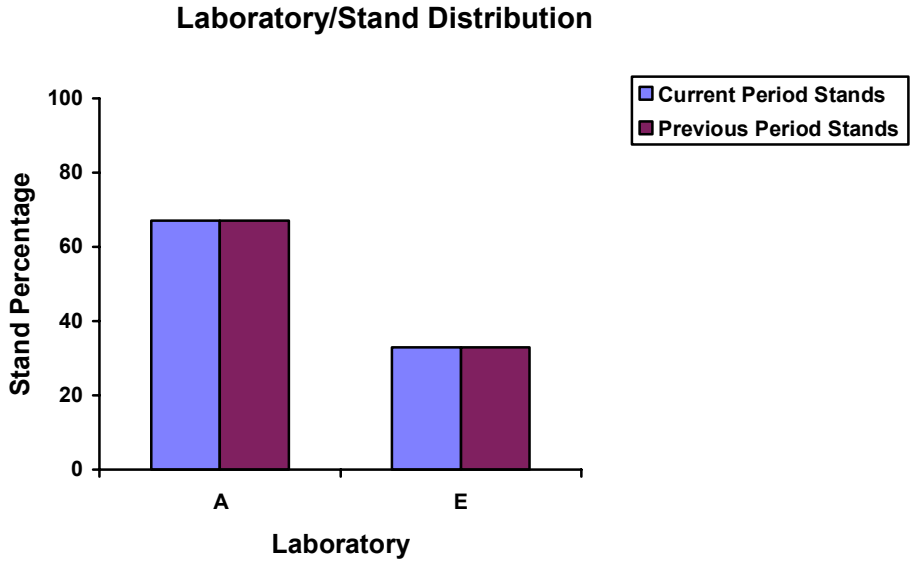
SUBJECT: High Temperature Cyclic Durability Reference Test Status from April 1, 2002 through September 30, 2002

The following is a summary of High Temperature Cyclic Durability reference oil tests that were reported to the Test Monitoring Center during the period April 1, 2002 through September 30, 2002.

Lab/Stand Distribution

	Reporting Data	Calibrated as of 9/30/02
Laboratories	2	2
Stands	3	3

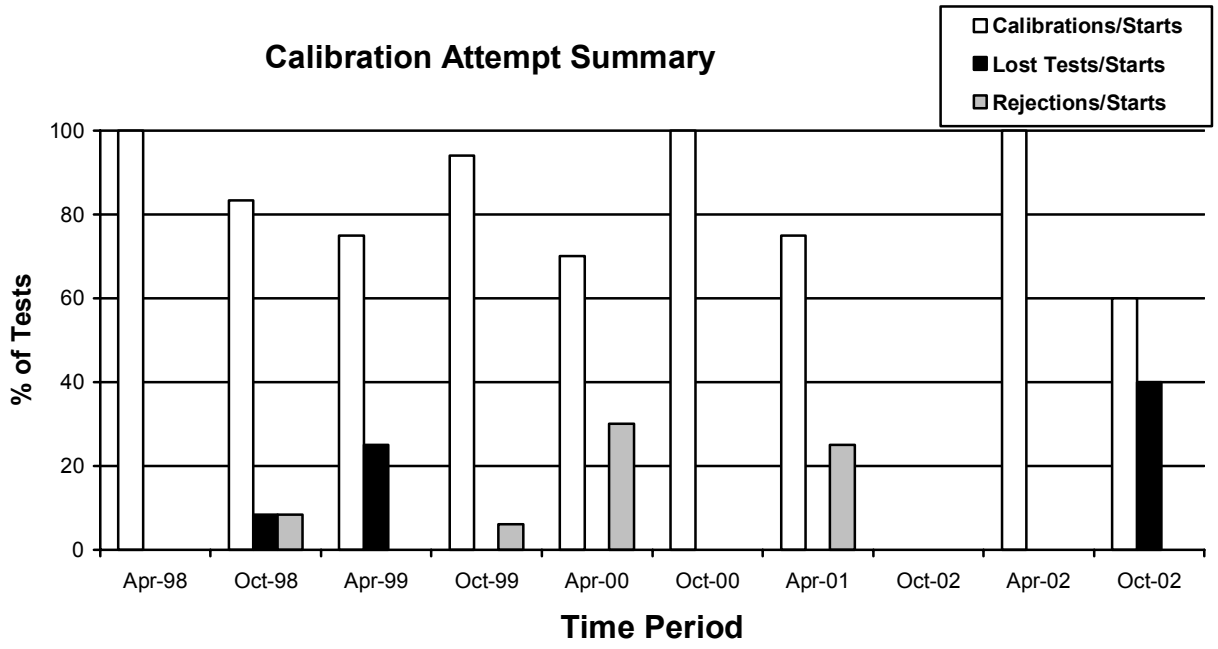
The following chart shows the laboratory/stand distribution:



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	6
Statistically Unacceptable	OC	0
Operationally Invalid, Laboratory Determination	LC	4
Total		10

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



The calibration per start rate decreased and the lost test per start rate increased with respect to the previous period. There were no rejected or lost tests this report period.

Severity and Precision

Figure 1 is the industry control chart. Severity and precision were in control the entire period. The average Δ/s for this period was -0.30.

Information Letters

There was one information letter issued during this report period. Information Letter 02-1, Sequence Number 9 was issued on September 27, 2002. Items changed with this information letter are documented in the HTCT timeline (Table 1).

Reference Oil

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. HTCT reference oils are shipped in quantities of 15 gallons per test.

Oil	Volume at TMC (Gallons)	Number of Tests Remaining at TMC	Number of Tests Remaining at Labs	Total Number of Tests Remaining
150-2	194	22	3	25
151-3	*	*	3	*

* 404 Gallons (Multiple test area usage)

DML/dml

Attachments

c: High Temperature Cyclic Durability Test Surveillance Panel
Frank M. Farber
ftp://ftp.astmtmc.cmu.edu/docs/gears/htct/semiannualreports/htct-10-2002

Distribution: email

Listing of Tables and Figures Included as Part of This Report to the High Temperature Cyclic Durability Test Surveillance Panel

Table 1 is the High Temperature Cyclic Durability Test Industry Timeline.

Figure 1 is the Industry control chart for Cycles to Unsynchronized Shifts.

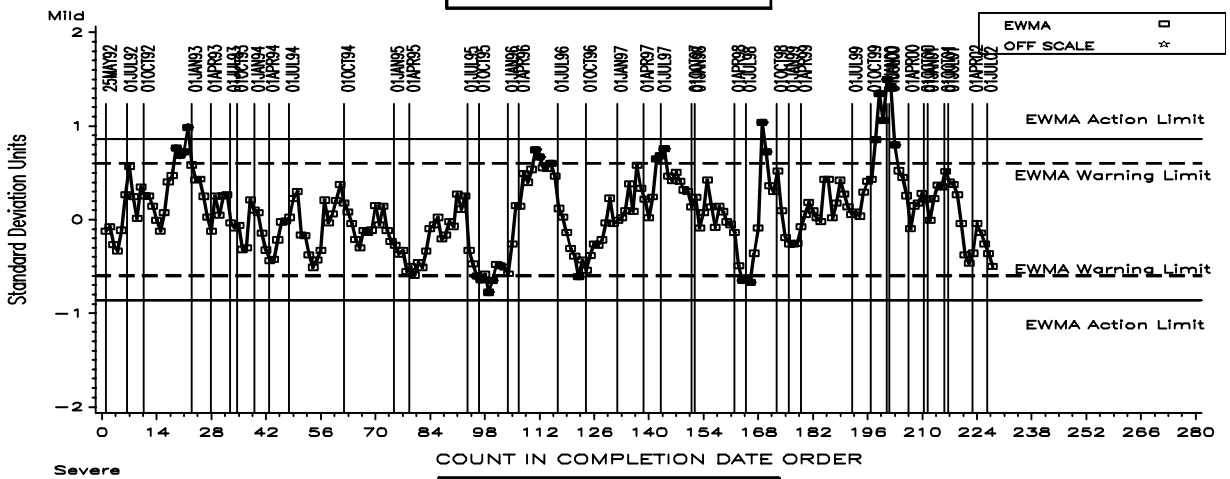
Table 1
High Temperature Cyclic Durability Industry Timeline

Effective Date	Information Letter	Description of Changes
19960701		SURVEILLANCE PANEL APPROVED ACCEPTANCE BANDS AND TARGETS
19970324	97-1	FORMS AND DATA DICTIONARY CHANGES, VERSION 19970128
19961210	97-1	CHANGE TO ALLOW REPLACEMENT OF MAIN BOX SHIFT RAIL COVER WITH ALUMINUM PLATE
19970918	97-2	REPLACEMENT OF APPENDIX X1 WITH ANNEX A5 (EDITORIAL CHANGES)
19971110	97-3	REVISION TO COAST DOWN TIME MEASUREMENT
19980209	98-1	REVISION TO SHIFT TIME DEFINITION AND INCLUSION OF SHIFT TIME PLOT
19980215		FIRST TEST ON NEW SYNCHRONIZER ASSEMBLY (PART NUMBER 320KB459)
19980626	98-2	DEFINED ACCEPTABLE HARDWARE CONFIGURATIONS. REVISED REPORT FORMS AND DATA DICTIONARY TO DOCUMENT HARDWARE CONFIGURATION UTILIZED
19990413	99-1	CLARIFIED THE CALIBRATION PERIOD, ALLOWS NON REFERENCE OIL TESTS TO START UP TO AND INCLUDING THE LAST DAY OF THE CALIBRATION PERIOD.
19990625	99-2	REDEFINED ACCEPTABLE HARDWARE CONFIGURATIONS.
20000613	00-1	REQUIRED THE USE OF WELLMAN SINGLE BATCH FRICTION PLATES FOR TESTS STARTING ON OR AFTER 6/13/00
20020920	02-1	FAILING REFERENCE OIL RUN REQUIREMENT
20020920	02-1	TEST HARDWARE CORRECTION AND REVISIONS

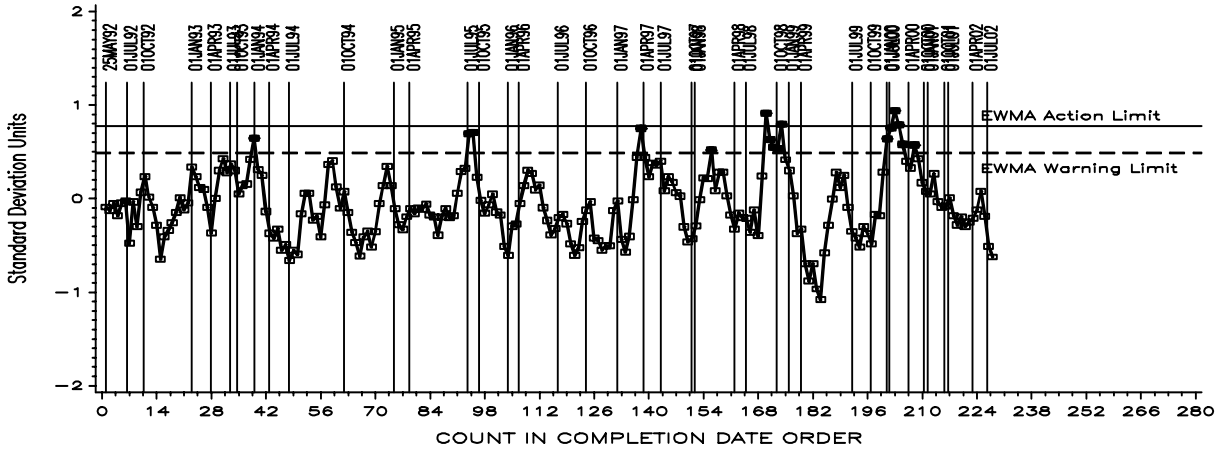
HTCT INDUSTRY OPERATIONALLY VALID DATA

END OF TEST CYCLES

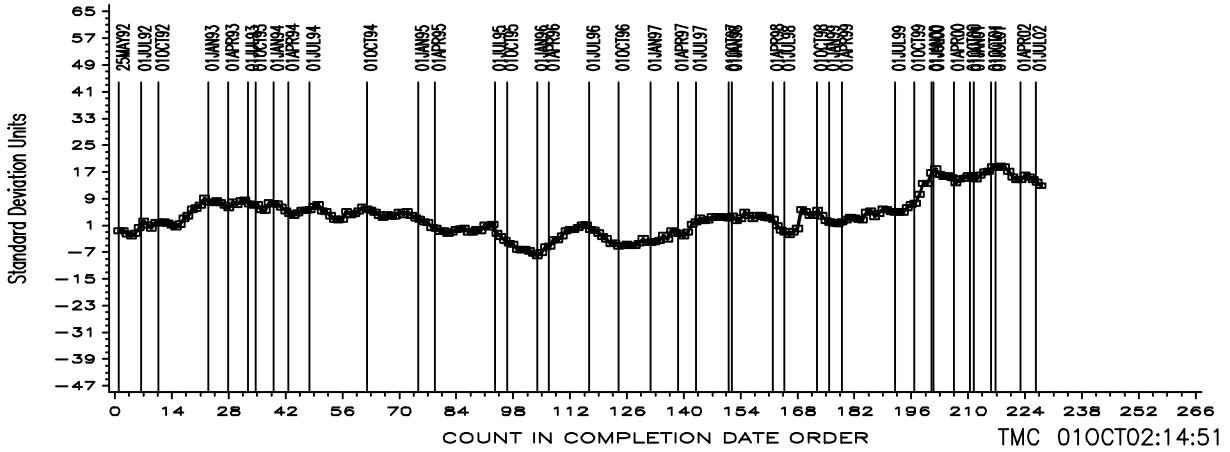
LTMS Severity Analysis



LTMS Precision Analysis



CUSUM Severity Analysis



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