



Test Monitoring Center

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MEMORANDUM: 02-016

DATE: April 8, 2002

TO: Ed Callis, Chairman, ASTM Section D02.B0.06

FROM: Richard E. Grundza

SUBJECT: Two-Stroke-Cycle Reference Test Status from October 1, 2001 through March 31, 2002

Status

RING STICKING (D 4857)

Two reference oil and one non-reference oil results were reported from one laboratory during the period ending March 31, 2002. Figures 1 and 2 plot the summation delta/s for Second Ring Sticking and Piston Skirt Varnish of both the calibration attempts and the reference oil results obtained with reference oil 606, run to evaluate the performance of non-reference oils. Figure 1 shows severity on or near target for the period. The target values used for plotting purposes are the mean values used to generate the correction factor to be applied to reference oil 606, when run for non-reference oil evaluation. Figure 2 plots the summation delta/s for Piston Skirt Varnish for the period ending March 31, 2002. Figure 2 shows Piston Skirt Varnish trending severe through the period.

TIGHTENING TEST (D 4863)

There was no test activity reported this period.

PREIGNITION TEST (D 4858)

There was no test activity reported this period.

Information Letters and Memorandum

One information memorandum was issued during this report period. TMC memorandum 02-009 was issued February 13, 2002. This memorandum circulated report forms and data dictionary revisions. Another notice of report forms and data dictionary changes, Report Packet Revision Notice TC1-20020218, was circulated February 22, 2002. Information Letters 01-2, 01-3 and 01-4 were issued November 28, 2001, revising Test Methods D4857, D4858 and D4863, respectively, to include report forms and data dictionaries. Information Letter 02-1 was issued February 28, 2002. This information letter changed the correction factor applied to reference oil results used to evaluate non-reference oils from -1.85 to -2.45.

Summary

Results with Test Method D 4857 showed Second Ring Sticking was on or near target for the period, while Piston Skirt Varnish trended severe through the period. There were no tests for either Lubricity (D 4858) or Preignition (D4863) test methods reported this period

REG/reg

Attachments

c: F. M. Farber, TMC

J. L. Zalar, TMC

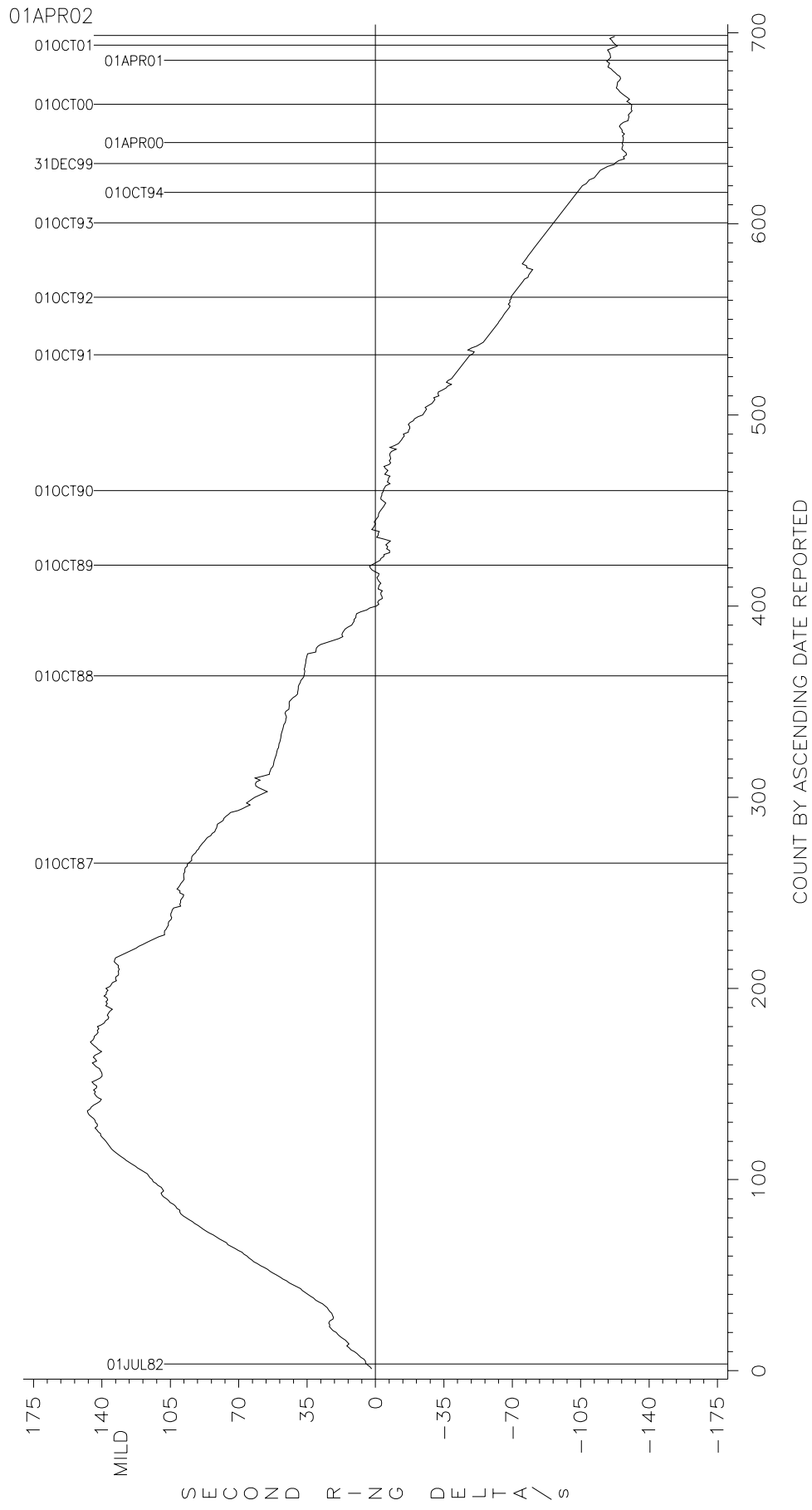
Two-Stroke-Cycle Mailing List

<ftp://ftp.astmtmc.cmu.edu/docs/gas/tc/semiannualreports/tc-04-2002.pdf>

Distribution: Email

FIGURE 1

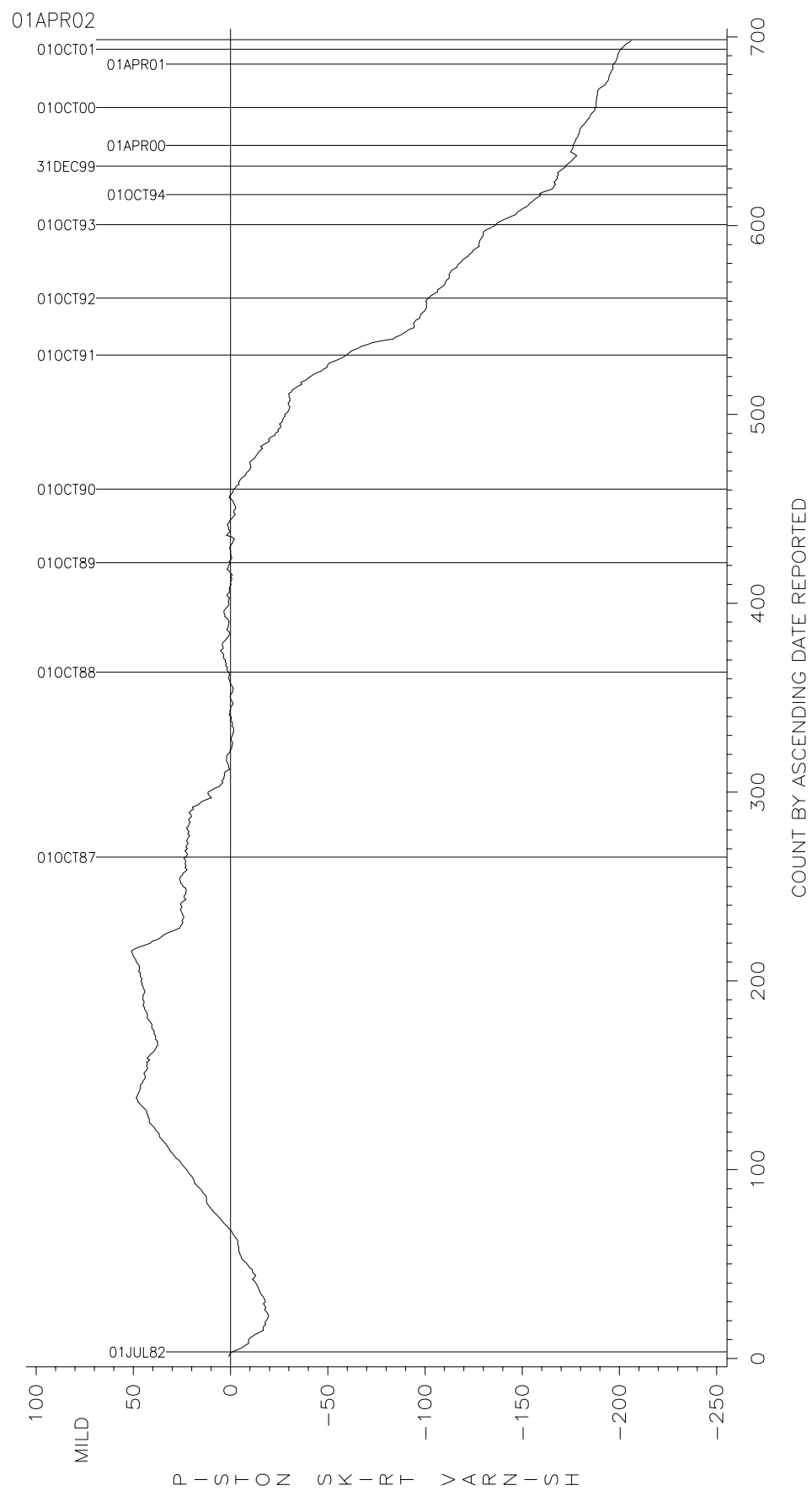
TWO-STROKE-CYCLE
RING STICKING TEST (D 4857)
CUSUM PLOT OF SECOND RING STICKING
Using Updated Targets after 4/1/00



Test Targets Based on Data Reported Prior to 10/16/90 for Reference Oil 600
Tests Targets for Reference Oil 606 is the Mean of the Data Used to Develop the Correction Factor

FIGURE 2

TWO-STROKE-CYCLE
RING STICKING TEST (D 4857)
CUSUM PLOT OF PISTON SKIRT VARNISH
Using Updated Targets After 4/1/00



TEST TARGETS BASED ON DATA REPORTED PRIOR TO 10/16/90 for Reference Oil 600
Tests Targets for Reference Oil 606 is the Mean of the Data Used to Develop the Correction Factor