



Test Monitoring Center

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

MEMORANDUM: 05-044
DATE: May 26, 2005
TO: Wim van Dam, Chairman, Mack Test Surveillance Panel
FROM: Jeff Clark
SUBJECT: T-8 Reference Testing for the April 2005 ASTM Report Period

The following is a summary of T-8 reference oil tests that were completed during the April 2005 ASTM period, which began October 1, 2004 and ended March 31, 2005.

The following table summarizes the status of the reference oil tests completed this ASTM report period:

Test Description	TMC Validity Code	Number of Tests
Operationally and Statistically Acceptable	AC	1
Failed Acceptance Criteria	OC	0
Operationally Invalid	LC	1
Aborted	XC	3
Total		5

The operationally invalid test missed the soot window. One test was aborted because it missed the soot window; two tests were aborted for extremely severe viscosity increase.

Severity and Precision:

Figure 1, 2, and 3 (attached) show the current industry severity and precision EWMA control charts and the industry cusum chart for viscosity increase at 3.8% soot (VI38), relative viscosity at 4.8%, 50% loss (RV48), and relative viscosity at 4.8%, 100% loss (RV2). The low level of test activity prevents any commentary on severity trends.

Since testing frequency is low, an estimate of precision will not be presented.

Reference Oils:

The table below shows the current reference oil test targets.

Parameter	Reference Oil	N	Mean	S
VI38	1004-3	30	4.57	0.90
RV48			2.07	0.26
RV2			2.21	0.27

Information Letters:

T-8 Information Letter 05-1, Sequence No. 13, was issued January 17, 2005. This information letter dealt with the cleaning solvent specification, test fuel, new stand calibration, donated reference tests, and test precision.

Laboratory Visits:

No TMC laboratory visits were conducted this ASTM period.

Additional Information:

The T-8 industry database, LTMS plots, industry alarm log, and timeline may all be accessed from the TMC home page at www.astmtmc.cmu.edu.

JAC/jac/mem05-044.jac.doc

Attachments

c: J.L. Zalar, TMC
F.M. Farber, TMC
Mack Test Surveillance Panel
<ftp://ftp.astmtmc.cmu.edu/docs/diesel/mack/semiannualreports/T8-04-2005.pdf>

Distribution: Email

Figure 1 T-8/T-8E INDUSTRY OPERATIONALLY VALID DATA

VISCOSITY INCREASE AT 3.8% SOOT

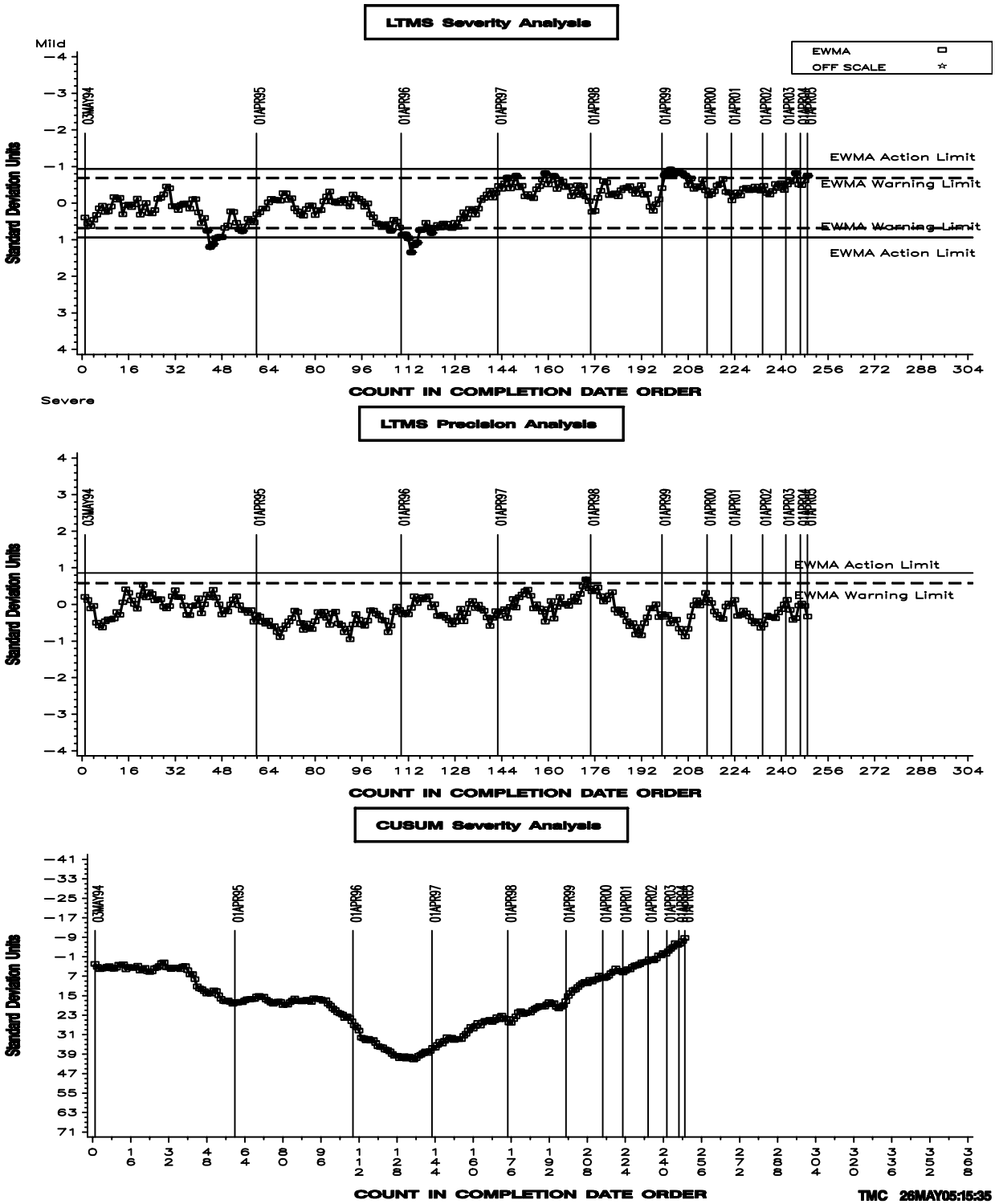


Figure 2 T-8/T-8E INDUSTRY OPERATIONALLY VALID DATA

RELATIVE VISCOSITY AT 4.8% (50% LOSS)

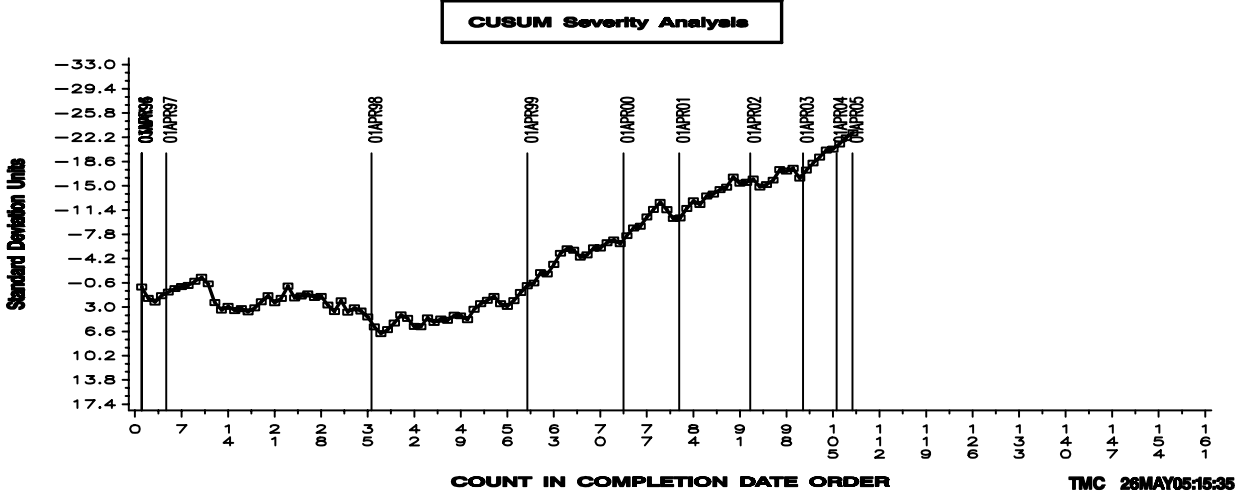
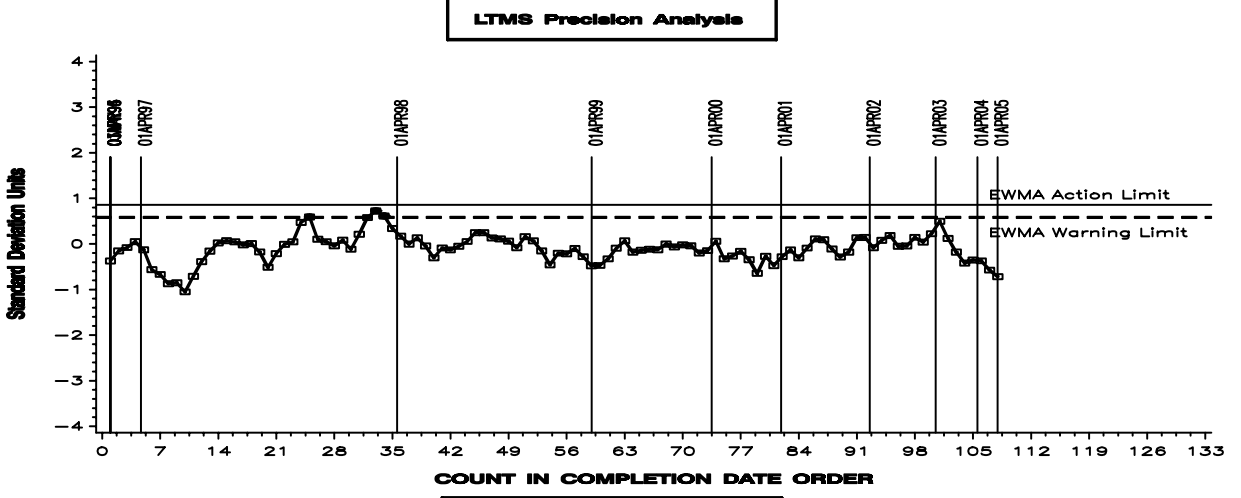
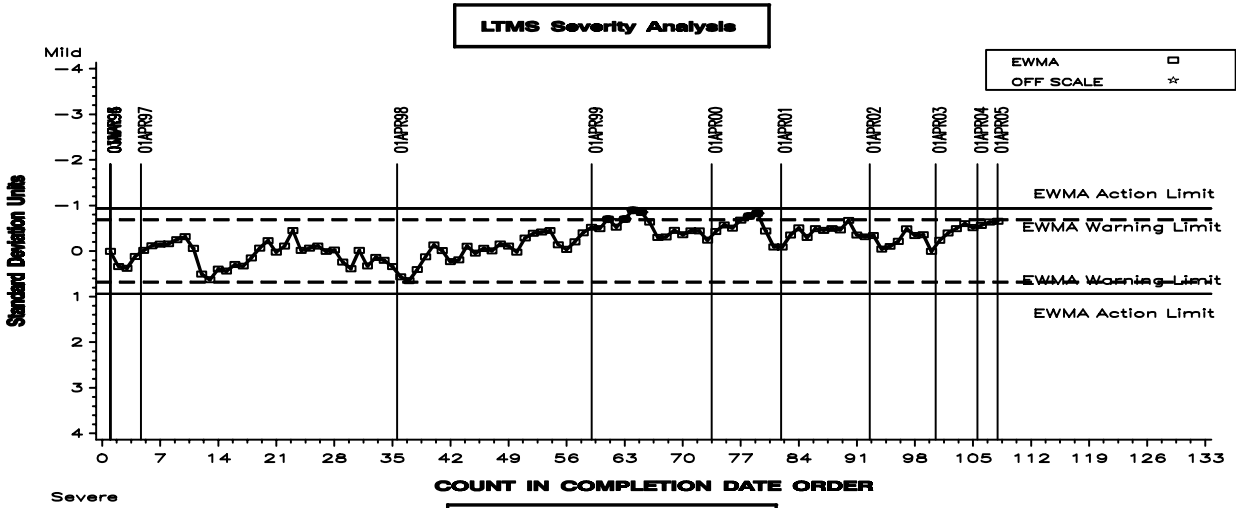


Figure 3 T-8/T-8E INDUSTRY OPERATIONALLY VALID DATA

REFERENCE RELATIVE VISCOSITY AT 4.8% (100% LOSS)

