



Test Monitoring Center

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MEMORANDUM: 07-062

DATE: October 16, 2007

TO: Mack Test Surveillance Panel
Two-Cycle Diesel Surveillance Panel
Roller Follower Wear Test Surveillance Panel
Engine Oil Aeration Test Surveillance Panel

FROM: Jeff Clark

SUBJECT: Reference Testing for the October 2007 ASTM Period

This is a summary of several low-activity multi-cylinder diesel reference test areas for the October 2007 ASTM period, which began April 1, 2007 and ended September 30, 2007. The following paragraphs provide a brief summary for each test area and highlight issues of concern, if any. Attachment 1 shows activity levels for each of the four test areas presented in this report. Attachment 2 shows the reference oil supply for each of the references oil used in the tests covered by this report.

Mack T-8

There are currently three calibrated stands at three laboratories. Two parameters, Relative Viscosity at 4.8% (50% Loss) and Relative Viscosity at 4.8% (100% Loss), have tripped an industry severity warning in the mild direction. This may be related to the introduction of TMC 1005-2 as the T-8 reference oil. The Mack Test Surveillance Panel is investigating the situation and has shortened current calibration periods in an effort to speed the generation of data.

Detroit Diesel 6V92

There are no calibrated stands. Reference oil test targets and candidate adjustment factors were updated effective January 1, 2007.

Roller Follower Wear Test

There are currently two calibrated stands at two laboratories.

Engine Oil Aeration Test

There is currently one calibrated stand at one laboratory.

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Additional Information:

The reference test databases, the industry LTMS plots, industry alarm logs, and timelines may all be accessed from the TMC home page at www.astmtmc.cmu.edu.

JAC/jac/mem07-062.jac.doc

Attachment

c: J.L. Zalar, TMC

F.M. Farber, TMC

<ftp://ftp.astmtmc.cmu.edu/docs/diesel/eoat/semiannualreports/eoat-10-2007.pdf>

<ftp://ftp.astmtmc.cmu.edu/docs/diesel/rfwt/semiannualreports/rfwt-10-2007.pdf>

<ftp://ftp.astmtmc.cmu.edu/docs/diesel/6v92/semiannualreports/6v92-10-2007.pdf>

<ftp://ftp.astmtmc.cmu.edu/docs/diesel/mack/semiannualreports/t-8/t8-10-2007.pdf>

Distribution: Email

Attachment 1

Reference Oil Test Activity of Multi-Cylinder Diesel Tests

Validity	T-8	6V92	RFWT	EOAT
AC	4	0	0	1
OC	1 ^A	0	0	0
LC	1 ^B	0	0	0
XC	3 ^C	0	0	0
Total	9	0	0	1
Calibrated As Of September 30, 2007				
Labs	3	0	2	1
Stands	3	0	2	1

^A Test failed due to mild RV48.

^B Test invalid due to missing the soot window.

^C Two tests aborted for missing the soot window, one test aborted due to high oil consumption.

Attachment 2

Reference Oil Inventory and Estimated Life

Oil	Tests	TMC Inventory^A	Lab Inventory	Estimated Life^B
862-1	6V92	420	50	5+ years
1004-3	EOAT, RFWT	29	21	3 years
1005-2	T-8, EOAT, RFWT	895	168	5+ years

^AInventories are expressed in gallons.

^BTime estimate is based on most recent activity levels.