



# Test Monitoring Center

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

MEMORANDUM: 05-076

DATE: October 14, 2005

TO: Robert Stockwell, Chairman, Roller Follower Wear Test Surveillance Panel

FROM: Jeff Clark

SUBJECT: Roller Follower Wear Reference Testing for the October 2005 ASTM Report Period

The following is a summary of Roller Follower Wear reference oil tests that were completed during the October 2005 ASTM period which began April 1, 2005 and ended September 30, 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	3
Failed Acceptance Criteria	OC	0
Operationally Invalid	RC	0
Aborted	XC	0
Donated Tests	AG	0
Total		3

### Severity and Precision:

Figure 1 (attached) shows the current industry severity and precision EWMA control charts and the industry cusum chart for average follower wear (AFW). AFW is currently within the industry severity and precision limits.

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

Reference Oils and Hardware:

The table below shows the current AFW test targets.

Parameter	Reference Oil	N	Mean (mils)	S
AFW	1004-2	10	0.33	0.05
	1004-3	2	0.44	0.06
	1005	-	0.20	0.06
	1005-1	5	0.20	0.05
	1005-2	-	0.20	0.05

Oils 1004-3 and 1005-2 have been distributed for reference testing. To date, four tests have been completed on 1004-3 and the targets will be updated at five tests. Results on 1005-2 will be judged against 1005-1 targets until five tests have been completed, at which point the targets will be updated. To date, two tests have been completed on oil 1005-2.

Information Letters:

No information letters were issued this report period.

Laboratory Visits:

No TMC laboratory visits were conducted this ASTM period.

Additional Information:

The RFWT industry database, LTMS plots, industry alarm log, and timeline may all be accessed from the TMC home page at [www.astmtmc.cmu.edu](http://www.astmtmc.cmu.edu).

JAC/jac/mem05-076.jac.doc

## Attachments

c: J.L. Zalar, TMC  
 F.M. Farber, TMC  
 Roller Follower Wear Test Surveillance Panel  
<ftp://ftp.astmtmc.cmu.edu/docs/diesel/rfwt/semiannualreports/rfwt-10-2005.pdf>

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