



Test Monitoring Center

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

MEMORANDUM: 00-121
DATE: September 8, 2000
TO: Volatility Participants
FROM: Tom Schofield
SUBJECT: New D5800 Noack Procedures and Targets

On August 15, 2000, the ASTM D02.B07 Engine Oil Volatility Surveillance Panel met via teleconference. Decisions made by the panel at that meeting have paved the way for the Test Monitoring Center (TMC) to begin monitoring the volatility bench tests required for the GF-3/SL Engine Oil Classification Category.

Effective September 26, 2000, the TMC will begin monitoring the ISL Non-Woods Metal Noack and Selby-Noack procedures in addition to the currently monitored D5800-99 Woods Metal Noack method. Test Method D5800 is currently under ASTM revision to include all three procedures. To the best of my knowledge, D5800 Procedure A will be the Woods Metal Noack procedure, Procedure B will be the ISL Non-Woods Metal Noack Procedure and Procedure C will be the Selby-Noack Procedure. Until the revised D5800 Test Method (to contain all three procedures) is published, the TMC will monitor the latest versions of the alternative procedures that have been provided to me by the panel Chair. Specifically:

Woods-Metal Noack Procedure: Test Method D5800-99: Evaporation Loss of Lubricating Oils by the Noack Method

Non-Woods Metal and Selby-Noack Procedures as presented in Proposed Revisions to D5800 Draft 6, December 17, 1999.

Monitored participants can obtain copies of the proposed Non-Woods and Selby-Noack procedures from me until the updated Method D5800 is available.

Test Reporting Packages are also in the process of being revised. Notably, a procedure field will be added. **Until a new report package is issued, please continue to use the current package (version 19981215) for reporting any of the three procedures except that you will need to add which procedure you are running as a comment. Also, please comment which procedure you are calibrating when you make a reference oil assignment request.**

Additionally, the panel has agreed to use TMC oils 52, 55 and 58 for D5800 calibrations in preparation for the new oil service category. Oils 52 and 55 were already being used for calibrations under D5800-99; oil 58 will be a new oil. The panel also decided on new targets and acceptance bands for the three oils (for more details, please refer to the minutes of the August 15 teleconference). Therefore, effective September 26, 2000, in coincidence with the TMC monitoring of the new procedures, Noack calibrations for all procedures will be limited to TMC reference oils 52, 55 and 58, and these oils will have new referencing targets and acceptance bands as listed in Table 1:

Table 1

<u>Breakdown by Method and Oil</u>					<u>Proposed 95% Acceptance Bands</u>	
<u>Method</u>	<u>Oil</u>	<u>n</u>	<u>Mean</u>	<u>SR</u>	<u>Lower</u>	<u>Upper</u>
All Noack	52	59	13.61	0.49	12.6	14.6
Methods	55	60	16.39	0.66	15.1	17.7
Combined	58	59	14.46	0.52	13.4	15.5

Note that all three procedures will have the same set of reference oil targets and acceptance bands. Labs will be contacted individually about discarding obsolete oil samples.

Please direct any inquiries to my attention.

Thomas Schofield
ASTM Test Monitoring Center
6555 Penn Avenue
Pittsburgh, PA 15206
Voice: 412-365-1011
Fax: 412-365-1049
Internet: tms@tmc.astm.cmri.cmu.edu

TMS/tms

c: <ftp://www.tmc.astm.cmri.cmu.edu/docs/bench/d5480/memos/mem00-121>