



# Test Monitoring Center

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

MEMORANDUM: 00-122  
DATE: September 13, 2000  
TO: Volatility Participants  
FROM: Tom Schofield  
SUBJECT: D6417 (Volatility by GC) Monitoring

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 (for more details, please refer to the meeting minutes).

Effective October 2, 2000, the TMC will begin monitoring calibration tests using Test Method D6417, Estimation of Engine Oil Volatility by Capillary Gas Chromatography (D6417-99 is the current version of that procedure). The test method is available for purchase from ASTM Headquarters. Method D6417 is expected to replace the D2887 Extended volatility method required for SJ and SL categories in the proposed Specification D4485 which is currently under Subcommittee B ballot. If D4485 is finally approved with the changed volatility requirement, the TMC will stop monitoring D2887 Extended.

Blind reference oil samples and Quality Assurance samples (as specified in Section 11 of the procedure) are being shipped to those labs requesting them. I expect to mail out D6417 Test Reporting Packages to the participating laboratories within the next few days.

The panel has agreed on the use of TMC Reference Oils 52, 55 and 58 for blind D6417 calibrations, and on TMC Oil 58 for use as the non-blind "daily" Quality Assurance Sample. The approved targets and acceptance bands for these oils are listed in Table 1 (effective October 2, 2000).

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>
	52	18	6.97	0.31	6.4	7.6
D6417	55	18	11.68	0.51	10.7	12.7
	58	18	5.61	0.30	5.0	6.2

Please direct any inquiries to my attention.

Thomas Schofield  
Voice: 412-365-1011  
Fax: 412-365-1049  
Internet: [tms@tmc.astm.cmri.cmu.edu](mailto:tms@tmc.astm.cmri.cmu.edu)

TMS/tms

c: <http://www.tmc.astm.cmri.cmu.edu/docs/bench/d6417/memos/mem00-122>