



Test Monitoring Center

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Sequence IVA Information Letter No. 05-2

Sequence No. 13

June 8, 2005

ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: Sequence IVA Mailing List

SUBJECT: Updated Test Precision

At the June 19, 2005 Sequence IVA Surveillance Panel meeting, the panel agreed to update the precision estimates in Test Method D 6891. The updated estimates are based on reference oil 1006-2 test results that have been adjusted for laboratory bias. These estimates, shown in the attached Table 9, are current as of May 18, 2005.

A number of editorial changes were made because of the lack of warning statements regarding hazards associated with chemicals and solvents required by Test Method D 6891. Section 7.4.1 has been revised and sections 7.4.1.2 and 7.4.1.3 have been added to specifically list the chemicals and associated hazards separately. This change is effective the date of this information letter.

William A. Buscher III
Chairman
Sequence IVA Surveillance Panel

John Zalar
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.cmu.edu/documents/gas/sequenceiv/procedures_and_ils/ivail05-2-13.pdf

Distribution: Electronic Mail

7.4.1 *Solvents and Cleaners Required*—No substitutions for 7.4.1.1 – 7.4.1.3 are allowed. *Use adequate safety provisions with all solvents and cleaners.*

7.4.1.1 Use only Specification D 235, Type II, Class C mineral spirits^{xx} meeting the requirements for Aromatic Content (0-2% vol), Flash Point (142°F/61°C, min) and Color (not darker than +25 on Saybolt Scale or 25 on Pt-Co Scale). (**Warning** – Combustible. Health hazard.) Obtain a Certificate of Analysis for each batch of mineral spirits from the supplier.

^{xx}Mineral spirits meeting the limited Specification D 235, Type II, Class C requirements are available from petroleum solvent suppliers.

7.4.1.2 Pentane (**Warning** –Flammable. Health Hazard.) Available from petroleum solvent suppliers.

7.4.1.3 Cylinder block and RAC cleaning detergent. Tri-sodium phosphate and any commercial coolant cleanser. (**Warning**. Caustic. Health Hazard).

TABLE 9 Test Precision^A

Test Result	Intermediate Precision ^B		Reproducibility ^C	
	$s_{i.p.}$ ^D	i.p. ^E	s_R ^D	R ^E
Average Wear (µm)	12.52	35.06	12.56	35.17

^A Based on results obtained on ASTM reference oil 1006-2 from February 20, 2002 to May 18, 2005.

^B See 14.1.1.2.

^C See 14.1.1.4.

^D s = standard deviation.

^E On the basis of test error alone, the difference, in absolute value, between two test results will be expected to exceed this value only about 5 % of the time.