



Test Monitoring Center

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Sequence IIIG Information Letter 07-1
Sequence No. 14
March 19, 2007

Approved by ASTM D02.B on March 5, 2007

TO: Sequence III Mailing List
SUBJECT: Sequence IIIGVIS Test Creation

At the request of the ASTM Heavy Duty Engine Oil Classification Panel, the Sequence III Surveillance Panel recently approved, via electronic ballot, the creation of a new version of the Sequence IIIG test measuring only percent viscosity increase. Appendix X2 of Test Method D7320 has been added to define the modifications necessary to conduct the test, referred to as the Sequence IIIGVIS. A revised Table of Contents and a definition for *test procedure*, Section 3.1.29, have also been added. This change is effective the date of this information letter.

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Attachment

c: ftp://astmtmc.cmu.edu/docs/gas/sequenceiii/procedure_and_ils/IIIG/IL07-1.pdf

Distribution: Electronic Mail

1.4 This test method is arranged as follows:

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3.1.29 *test procedure* n—one where test parameters, apparatus, apparatus preparation, and measurements are principal items specified.

Renumber old Sections 3.1.29, 3.1.30, and 3.1.31 as Sections 3.1.30, 3.1.31, and 3.1.32.

X2. SEQUENCE IIIGVIS TEST PROCEDURE

X2.1 *Overview*- The Sequence IIIGVIS test procedure was developed to support the viscosity increase requirements for Heavy Duty Diesel Category CJ-4 (Specification D 4485). The Sequence IIIGVIS test procedure consists of examining the percent viscosity increase data obtained at the end of a normal 100-h Sequence IIIG test method. No parts ratings or measurements are required in the Sequence IIIGVIS test procedure. A separate Sequence IIIGVIS report form set is available from the TMC for reporting Sequence IIIGVIS test results. Do not use the Sequence IIIG Report Form Set to report Sequence IIIGVIS test results.

X2.2 *Preparation of Apparatus*- Prepare the Sequence IIIGVIS test engine in the same manner as a Sequence IIIG test engine. No special preparations are required or permitted on test engines for Sequence IIIGVIS use. Do not perform Camshaft and Lifter Measurements, as outlined in Section 9.11, for the Sequence IIIGVIS test procedure.

X2.3 Calibration

X2.3.1 There is no stand-alone calibration system for the Sequence IIIGVIS test procedure. Any stand that is considered calibrated for Sequence IIIG testing shall be considered calibrated for Sequence IIIGVIS testing.

X2.3.2 No special calibration of stand instrumentation is required for Sequence IIIGVIS testing.

X2.3.3 Apply Sequence IIIG percent viscosity increase Severity Adjustments (SA) to Sequence IIIGVIS results.

X2.3.4 A Sequence IIIGVIS test procedure start counts as one run against the Sequence IIIG calibration period in which it is run.

X2.4 *Test Procedure*- Conduct the Sequence IIIGVIS test procedure in a calibrated IIIG test stand.

X2.5 *Determination of Result*- Determine the test result using Sections 12.6, 12.12 and 12.13.

X2.6 *Test Reporting*- Report the Sequence IIIGVIS result using the standard report form set, available from the TMC.

X2.7 Precision & Bias

X2.7.1 Test precision for the IIIGVID test procedure is assumed to be the same as that established for the Sequence IIIG test method, which is based on reference oil test results (for operationally valid tests) monitored by the TMC. The Sequence IIIF Surveillance Panel reviews the data semiannually; contact the TMC for current industry data.

X2.7.2 Bias for the IIIGVIS test procedure is assumed to be the same as that determined by applying an accepted statistical technique to Sequence IIIG test method reference-oil test results. When a significant bias is determined, an SA is permitted for non-reference oil test results.