



Test Monitoring Center

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Sequence IIIF Information Letter 13-1
Sequence No. 35
February 6, 2013

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 III Mailing List

SUBJECT: 1. Correction to Section 11.12
2. Corrected References for Rating Manuals and Workshop.

1. During the January 31, 2013 Sequence III Surveillance Panel conference call, the panel agreed to correct the NOx measurement requirements in Section 11.12 by dropping the measurement at test hour 99. The test length is 80 hours.
2. During the January 31, 2013 Sequence III Surveillance Panel Conference call, the panel agreed to update the references to the ASTM Light Duty Rating workshop, as well as the References to ASTM Rating Manuals. Section 2.4 has been added and Section 12.4.2 has been revised to reference ASTM Deposit Rating Manual 20. Sections 12.4.3.4, 12.4.3.5 and 12.4.3.7 have been updated to reflect the ASTM Light Duty Rating workshop. Revised 12.4.3.4, 12.4.3.5 and 12.4.3.7 are attached.

The attached new and revised sections of Test Method D6984 are effective January 31, 2013.

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Engine Oil Test Development and Support
GM Powertrain Materials Engineering

Frank M. Farber
Director
ASTM Test Monitoring Center

Attachments

c: ftp://ftp.astmtmc.cmu.edu/docs/gas/sequenceiii/procedure_and_ils/IIIF/IL13-1.pdf

Distribution: Electronic Mail

Modifies Test Method D6984-12
as amended by Information Letter 12-1

*2.4 Other ASTM Documents*⁷

ASTM Deposit Rating Manual 20 (Formerly CRC Manual 20)

11.12 *NO_x Determinations*—The measurement of NO_x is not required. If desired, measure NO_x concentrations using suitable exhaust gas analysis equipment at 19 h and 49 h and record the data in the report form set.

12.4.2 Rate each piston top groove, 2nd groove, oil ring groove, 2nd land, and undercrown area (where the horizontal and vertical planes meet) for deposits using ASTM Deposit Rating Manual No. 20 rating techniques and breakdown methods. Carbon deposit ratings consist of only two levels: Heavy (0.00 merit value) or Light (0.75 merit value).

12.4.3.4 All raters of Sequence IIIF engine pistons shall attend an ASTM Light Duty Deposit Rating Workshop every 12 months ± 30 days and produce data that meet the TMC definition of Blue, Red, or White for piston deposits. If a rater is unable to meet this requirement, the rater can continue to rate Sequence IIIF pistons after the completion of the workshop for a grace period of 45 days and can follow the procedure described in 12.4.3.5 to generate data that meet the TMC definitions of Blue, Red, or White.

12.4.3.5 A rater who is unable to meet the requirement in 12.4.3.4 can schedule a visit to the TMC to generate data on ASTM Light Duty Deposit Rating Workshop pistons and receive an assessment of rating performance compared to data collected at recent workshops. Visits to the TMC will be scheduled based on availability of parts.

12.4.3.7 A second attempt to generate rating data at the TMC is permitted only after the rater receives training from an experienced industry rater. The experienced industry rater shall verify to the TMC, in writing, that the rater training has taken place. No more than two attempts are permitted between ASTM Light Duty Deposit Rating Workshops.

⁷ For STOCK# TCMNL20, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org.