

Test Monitoring Center

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Sequence IIIF Information Letter 09-2 Sequence No. 28 December 14, 2009

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) Teflon Tape & 1/16" Diameter Thermocouple Use
2) Condenser Coolant Temperature QI Upper & Lower Limits
3) Editorial Change – Annex 8

- 1) During the November 18, 2009 Surveillance Panel Conference Meeting, the panel agreed to allow the use of Teflon tape in engine assembly, providing it does not come in contact with engine oil and to allow the use of 1/16" diameter thermocouples. Section 6.13 has been revised and section 7.6.4 has been added to reflect these changes
- Also during the November 18 meeting, the panel agreed to revise the QI upper and lower limits for condenser coolant temperature. Table A8.1 has been revised to reflect these new upper and lower limits.
- 3) Recently, it was noted that Section 10.8.10.1 incorrectly references Annex A7, the correct reference should read Annex A8. Section 10.8.10.1 has been revised to reflect Annex A8

The attached changes to Test Method D 6984 are effective November 18, 2009.

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Bruce Matthews Engine Oil Test Development and Support GM Powertrain Materials Engineering

Attachments

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Frank M. Farber Administrator ASTM Test Monitoring Center

c: ftp://ftp.astmtmc.cmu.edu/docs/gas/sequenceiii/procedure_and_ils/IIIF/IL09-2.pdf

Distribution: Electronic Mail

Modifies Test Method D6984-08a

as amended by Information Letters 08-1, 08-2, 08-3, 09-1, 09-2, 09-3 and 09-4

6.13 *Temperature Measurement*—Use 1.6 or 3.2 mm metal-sheathed Specification E608/E608M, iron-constantan (Type J) thermocouples for temperature measurements. Use the shortest possible thermocouples to meet the insertion depth requirements listed in this test method and minimize exposed thermocouple sheathing.

7.6.4 Teflon tape may be used, provided it does not come into contact with engine oil.

10.8.10.1 The upper and lower values used for QI calculations for the required parameters are listed in Annex A8.

| | | Lower Values |
|---|---|--------------|
| Controlled Parameters | Quality Index Upper and Lower Values | |
| | L | U |
| Speed | 3595 | 3605 |
| Load | 199.02 | 200.98 |
| Air-to-Fuel Ratio | 14.87 | 15.13 |
| Condenser Coolant Outlet Temperature | 39.54 | 40.46 |
| Engine Coolant Outlet Temperature | 121.54 | 122.46 |
| Oil Filter Block Temperature | 154.58 | 155.42 |
| Exhaust Back Pressure | 5.92 | 6.08 |
| Intake Air Pressure | 0.041 | 0.059 |
| Engine Coolant Flow | 158.57 | 161.43 |

TABLE A8.1 Sequence IIIG Quality Index Upper and