



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

Sequence IVB Information Letter 24-1
Sequence Number 7
August 13, 2024

TO: Sequence IV Surveillance Panel

SUBJECT: 1. Reporting of Final wear results less than Zero
2. Updating of Oil used for Engine Break in

1. During the July 17, 2024, Sequence IV Surveillance Panel Conference Call, the panel agreed to report negative, end of test wear values as Zero. New Sections A5.4.4, A5.4.4.1, A5.4.10, A5.4.10.1, A6.8.5.1 and new notes A5.1, A5.4 and A6.1 have been added.
2. Recently, it was noted that the revision to Section 7.3.1 as part of information letter 21-002 had not been incorporated. Also noted was that Sections 11.8.7 and 11.11.2 were not included for revision. These sections have been updated to show the change from reference oil 1006-2 to SL107.

The attached revised sections of Test Method D8350 are effective with the issuance of this letter.

William A. Buscher III
Chairman
Sequence IV Surveillance Panel

Jeffrey A. Clark
Executive Director
ASTM Test Monitoring Center

Attachment

c: https://www.astmtmc.org/ftp/docs/gas/sequenceiv/procedure_and_ils/ivb/IL24-001-ivb.pdf

Distribution: Email

Revises D8350-24

7.3.1 Break-in Lubricating Oil—An engine break-in procedure as shown in 11.8 is immediately conducted following the replacement of new, major engine components (that is, engine shortblock, or cylinder head, or both). Use the proper reference oil, ~~1006-2~~ **SL107**, from the TMC for the break-in procedure. Use 3 L of this reference oil for each break-in procedure.

11.8.7 Fill the engine with 3000 mL of reference oil ~~1006-2~~ **SL107** as break-in oil.

11.11.2 Fill the engine with 3.0 L of reference oil ~~1006-2~~ **SL107** as break-in oil.

A.5.4.4 *The special case of the intake/exhaust lifter average mass loss being negative* – In this case, record 0.0 mg as the average mass loss result on Form 4 and Form 9.

NOTE A5.1 – The minimum intake/exhaust lifter average mass loss result that will be considered for this method is 0.0 mg so this value replaces any value that is < 0 mg.

Renumber existing notes A5.1, A5.2 and A5.3 as A5.2 and A5.3 and A5.4

A.5.4.4.1 Comment on Form 13 (Test Comments) that the original result has been replaced by 0.0 mg because the mass loss result was negative.

A.5.10.4 *The special case of the intake/exhaust camshaft average heel to toe wear being negative* – In this case, record 0.0 μm as the average wear result on Form 4 and Form 9.

NOTE A5.5 – The minimum intake/exhaust camshaft average heel to toe wear result that will be considered for this method is 0.0 μm so this value replaces any value that is < 0 μm .

A.5.10.4.1 Comment on Form 13 (Test Comments) that the original result has been replaced by 0.0 micrometer because the wear result was negative.

A.6.8.5 *The special case of the intake/exhaust lifter average Keyence volume loss being negative* – In this case, record 0.00 mm^3 as the average volume loss result on Form 4 and Form 9.

NOTE A6.1 – The minimum intake/exhaust lifter average Keyence volume loss result that will be considered for this method is 0.00 mm^3 so this value replaces any value that is < 0 mm^3 .

A.6.8.5.1 Comment on Form 13 (Test Comments) that the original result has been replaced by 0.00 mm^3 because the volume loss result was negative.