A Program of ASTM International

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Sequence IIIH Information Letter 18-2
Sequence No. 7
April 6, 2018

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: Correction to Appendix X2

During the March 6, 2018 Sequence III Surveillance Panel conference call the panel approved changes to Appendix X2 for determination of phosphorus retention. Parts of Section X2.4.3 were omitted from the published IIIH method. Also ASTM Standard D3244 has been added to Section 2.1

The attached change to Test Method D8111-17 is effective with the issuance of this letter.

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Attachments

c: http://www.astmtmc.cmu.edu/ftp/docs/gas/ChryslerIIIH/procedure_and_ils/il18-2_IIIH.pdf

Distribution: Electronic Mail

Modifies Test Method D8111-17 as modified by Information Letters 17-001 through 18-001

Add to

2.1 *ASTM Standards:*[13]

D3244 Practice for Utilization of Test Data to Determine Conformance with Specifications

X2.4.3 *Testing Oil Samples for Element Concentration*—Use Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) Analysis, Test Method D5185, to determine the mass fraction of the following 15 elements: aluminum, boron, calcium, copper, iron, potassium, magnesium, manganese, molybdenum, sodium, phosphorus, lead, silicon, tin, and zinc for the fresh oil, the initial oil sample (that is, that sample removed from the engine following the initial run-in (see 11.2.3)), and the 90 h, EOT oil sample.

X2.4.3.1 All samples, initial and end-of-test, are to be run sequentially, in duplicate, using the same calibration (that is, as close in time as practical). Background correction, internal standard, and peristaltic pump are required. Use sample dilutions of at least 1:20. Once a dilution is established, use it for all samples from a test.

X2.4.3.2 Report the average of the two determinations as the final result. If the duplicate determinations are outside the repeatability calculations shown in Table 2 of Test Method D5185, follow the procedure shown in 6.2 of Test Method D3244.

X2.4.3.3 Report all sample concentrations in milligrams per kilograms on Form 7.

[1] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.