A Program of ASTM International

Test Monitoring Center

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ISM Information Letter 22-1
Sequence No. 16
April 8, 2022

ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: Cummins Mailing List

SUBJECT: Updated Injector Adjusting Screw Mass Loss Correction Factor

During the March 8th, 2022 Surveillance Panel teleconference the panel agreed to update the correction factor for Injector Adjusting Screw Mass Loss. The correction factor is to be updated from +0.410 to +0.250.

Revised text of sections 11.2.5.3 and new section 11.2.5.4 of D7468-21 are attached. This change is effective immediately.

Ryan Denton
Corporate Chemical Technology Manager
Cummins Inc.

Frank M. Farber
Director
ASTM Test Monitoring Center

Attachment

c: https://www.astmtmc.org/ftp/docs/diesel/cummins/procedure_and_ils/ISM/il22-01-ISM.pdf

Distribution: Email

(Revises Test Method D7468-21)

Edit section 11.2.5.3

11.2.5.3 For all tests that complete on hardware combinations consisting of Batch C injector push rods, Batch D injector adjusting screws and Batch F crossheads (central parts distributor hardware kits numbered 938 or higher) and all subsequent batches of hardware for tests completing before March 22nd 2022, take the natural log of the injector adjusting screw mass loss average value adjusted to 3.9 % soot calculated in 11.2.4 and reported on Form 12, apply a correction factor of +0.410 to that value to get the transformed corrected IAS mass loss value and report on Form 4. Finally, back transform this value using the inverse natural log to get the final injector adjusting screw mass loss value in milligrams. Report this value on Form 4 as the final result listed in Table A9.1.

Add section 11.2.5.4

11.2.5.4 For all tests that complete after March 22nd 2022 on hardware combinations consisting of Batch C injector push rods, Batch E injector adjusting screws and Batch G crossheads and all subsequent batches of hardware, take the natural log of the injector adjusting screw mass loss average value adjusted to 3.9 % soot calculated in 11.2.4 and reported on Form 12, apply a correction factor of +0.250 to that value to get the transformed corrected IAS mass loss value and report on Form 4. Finally, back transform this value using the inverse natural log to get the final injector adjusting screw mass loss value in milligrams. Report this value on Form 4 as the final result listed in Table A9.1.