



Test Monitoring Center

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ISB Information Letter 17-1
Sequence No. 11
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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: ISB ATWL & ACSW Correction Factors

On October 19, 2017, via teleconference, the Cummins Surveillance panel approved correction factors to Camshaft wear (ACSW) and Average Tappet Mass Loss (ATWL) test parameters for all tests that complete on or after October 19th, 2017. Sections 11.2.6.3 and 11.3.6 of test method D7484 have been revised and are attached.

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Attachment

c: http://www.astmtmc.cmu.edu/ftp/docs/diesel/cummins/procedure_and_ils/ISB/il17-1_ISB.pdf

Distribution: Email

(Revises Test Method D7484-16)

11.2.6.3 Apply the following Average Tappet-mass Loss correction factors as necessary:

(1) For all tests using Batch B tappets and Batch E, F, or G camshafts, that start on or after April 21, 2011, multiply the average tappet-mass loss from 11.2.6.2 by 0.637 to get the final average tappet-mass loss result.

(2) For all tests using Batch C tappets and Batch H camshafts, that start on or after December 11, 2011 and end on or before November 12, 2012, multiply the average tappet-mass loss from 11.2.6.2 by 0.637 to get the final average tappet-mass loss result.

(3) For all tests using Batch C tappets and Batch H camshafts, that start on or after November 13, 2012 and all tests on Batch C tappets and Batch J camshafts, multiply the average tappet mass loss from 11.2.6.2 by 0.711 to get the final average tappet mass loss result.

(4) For all tests on Batch D tappets and Batch K camshafts that complete before October 19th, 2017, multiply the average tappet mass loss from 11.2.6.2 by 1 to get the final average tappet mass loss result.

(5) For all tests that complete on or after October 19th, 2017 multiply the average tappet mass loss from 11.2.6.2 by 0.785 to get the final average tappet mass loss result.

(6) If after applying the appropriate correction factor from section 11.2.6.3, the final Average Tappet-mass Loss value is less than 0, report the Average Tappet-mass Loss as 0 in 11.2.6.2.

(7) Report the data on the appropriate form.

11.3.6 Apply the following Average Camshaft Wear correction factors as necessary:

(1) For all tests using Batch B tappets and Batch E, F, or G camshafts, that start on or after April 21, 2011, adjust average camshaft wear from 11.3.5 by subtracting 9.5 to get the final average camshaft wear result.

(2) For all tests using Batch C tappets and Batch H camshafts, that start on or after December 11, 2011 and end on or before November 12, 2012, adjust average camshaft wear from 11.3.5 by subtracting 9.5 to get the final average camshaft wear result.

(3) For all tests using Batch C tappets and Batch H camshafts, that start on or after November 13, 2012 and all tests on Batch C tappets and Batch J camshafts, adjust average camshaft wear from 11.3.5 by subtracting 5.6 to get the final average camshaft wear result.

(4) For all tests using Batch D tappets and Batch K camshafts that complete before October 19th, 2017 adjust average camshaft wear from 11.3.5 by subtracting 11.3 to get the final average camshaft wear result.

(5) For all tests that complete on or after October 19th, 2017 adjust average camshaft wear from 11.3.5 by subtracting 18.5 to get the final average camshaft wear result.

(6) If after applying the appropriate correction factor from section 11.3.6, the final Average Camshaft Wear value is less than 0, report the Average Camshaft Wear as 0 in 11.3.5.

(7) Report the data on the appropriate form.