

MEMORANDUM: 25-005

DATE: February 21, 2025

TO: Cummins Surveillance Panel

FROM: Sean Moyer

SUBJECT: ISB Reference Targets

The Cummins Surveillance Panel voted during the February 19th, 2025 surveillance panel teleconference to adopt a transformation for both Average Camshaft Wear and Average Tappet Weight Loss parameters in the Cummins ISB test. The target mean and standard deviation for oil 831 re-blends 831-3 and 831-4 were recalculated in transformed space and were approved by the panel. These new targets and transformations will be applied to all reference tests that completed after June 30th, 2021.

The panel also voted on targets for new reference oil 835 using the same transformed units.

The panel also voted to approve an updated severity adjustment standard deviation of 0.2302 for ACSW and 1.1755 for ATWL.

These changes are effective immediately.

A summary of the new targets is attached.

cc: Jeff Clark, TMC

<https://www.astmtmc.org/ftp/docs/diesel/cummins/memos/mem25-005.pdf>

Distribution: email

AVERAGE CAM SHAFT WEAR

Unit of Measure: LN(ACSW)

Reference Oil	Mean	Standard Deviation
831-3	3.7495	0.2302
831-4	3.7495	0.2302
835	3.9338	0.2302

AVERAGE TAPPET WEIGHT LOSS

Unit of Measure: SQRT(ATWL)

Reference Oil	Mean	Standard Deviation
831-3	9.8590	1.1755
831-4	9.8590	1.1755
835	9.7057	1.1755