

Cummins Surveillance Panel Meeting Minutes

November 11, 2025, 09:00-12:00 CST

Participants:

Afton – Joe Hoehn

Chevron Oronite –Marnix Torreman, Jo Martinez, Laura Birnbaumer

Cummins – Phil Shelton, Ryan Denton

Exxon Mobil – Mike Shea

Infineum –Todd Dvorak, Jacob Goodale

Intertek – Josh Ward

Lubrizol – Johnathan Bolaney, Robert Slocum, Austin Brininger

SwRI – Joe Moore, Bob Warden, Travis Kostan, Jose Starling

TEI – Dan Lanctot

TMC – Wesley Venhoff

Agenda:

- ISB camshaft review
- ISM kit status
- ISBV report changes for valid 108 hr MRV and addition of 6 cst
- ISBV 12 and 15 cst severity

ISB Camshaft Review:

- SwRI presented data on their run on a pitted camshaft with RO 835.
- Produced results that would have passed a reference test.
 - Cam Yi = -0.017
 - Tappet Yi = -0.025
- The camshaft did not see any flaking damage at pitted locations, some flaking at locations without nearby pits.

Motion: The panel directs TEI to allow the distribution, for labs willing to accept them, of kits with camshafts containing up to one intake lobe and one exhaust lobe with a visible “pit” as a rolling change. The next reference on each stand shall be run with a camshaft with one pit on an intake

lobe and one pit on an exhaust lobe. The test report shall be updated to call out pit locations in the wear results table on form 8 by adding a column.

Joe Moore motions, Jacob Goodale seconds.

For: Chevron, SwRI, Afton, Lubrizol, TEI, Infineum, Exxon, Cummins, Intertek, TMC

Against:

Waive:

Motion carries.

ISM kit status:

- Kit supply is slowed by small parts being delivered slowly.
- Currently limited by oil pressure release valve and plunger.
 - Unknown if cleaning is enough to reuse it.
 - Parts may come in over the next couple weeks.
- Blocks are being sent for machining and will be sent to labs soon.

ISBV report changes:

- NCDT directed that in the rare case of a 156 hr test becoming invalid after 108 hrs, the 108 hr MRV is valid.

Motion: The panel directs TMC to update the report form to add a validity statement for the 108-hour MRV run in a 156-hour test, to match what is outlined in the test procedure.

Jacob Goodale motions, Josh Ward seconds.

For: Chevron, SwRI, Afton, Lubrizol, TEI, Infineum, Exxon, Cummins, Intertek, TMC

Against

Waive

Motion carries

- NCDT has directed to add a 6 cSt measurement to the ISBV156 test.
 - Unclear if the 4 cSt parameter should be removed.
- Keeping 4 cSt in the report would provide more data capture and may help other entities using the test.
- Removing 4 cSt from the report would help end users avoid confusion.
 - T8 replacement may target a different parameter than 4 cSt.

- The intent from the statisticians is to use 6 cSt as the equivalence for the T11.
- PC-12 is the only use known for the ISBV currently and does not use 4 cSt.
 - 4 cSt can be calculated from report data if desired.
- Consensus is to replace 4 cSt with 6 cSt.
- For the LTMS, the question is open if 6 cSt will be a critical parameter for referencing.
 - If 6 cSt is to be critical
- Stats group shared targets for soot at 6 cSt at the last panel meeting in July.
 - Targets were generated for both the same dataset as the current 12 and 15 cSt targets and a wider reference dataset.

Tabled Motion: The panel directs TMC to replace the 4 cSt parameter with 6 cSt in the report form and test procedure. Labs will need to resubmit references and candidate data. 6 cSt will be non-critical for referencing as the panel evaluates data. **The panel needs to identify targets and review data. This motion will be revisited at the next meeting.**

ISBV 12 and 15 cst severity:

- 12 cSt is at a borderline action limit, 15 cSt is past the action limit.
- There seem to be less mild fliers than in the timeframe when limits were set.
- Engine block and build hours may be an important parameter in the shift.
 - Will be prepared for next meeting.

RO 834 Re-blend:

- RO 834-1 is blended and matches the blend from RO 834.
- TMC and some labs are out of RO 834.
- Generally, re-blends are treated with level 2 Ei alarms.

Motion: Introduction of RO 834-1 shall be treated as a rolling change with level 2 Ei alarms. Once more data is available, the panel will evaluate if new targets are needed.

Joe Moore motions, Josh Ward seconds.

For: Chevron, SwRI, Afton, Lubrizol, Infineum, TMC, Intertek

Against:

Waive: TEI

Motion carries.

Next Steps:

- The panel will continue to monitor the ISBV severity issue and look at data with engine hours included in the next meeting.
- Josh will communicate with Phil on sourcing ISM ECM's
- Labs will look into ISM pressure regulators and other small parts that may be able to be reused.

Next Meeting: within the next 2 weeks