

Cummins Surveillance Panel Meeting Minutes

April 9, 2025, 13:00-14:00 CST

Participants:

Afton – Joe Hoehn

Chevron Oronite –Marnix Torremans, Jo Martinez

Cummins – Phil Shelton

Exxon Mobil – Mike Shea

Infineum –David Brass, Todd Dovrak

Intertek – Joshua Ward (Chairman), Garrett White

Lubrizol –Austin Brining, Robert Slocum, Jonathan Bolaney, Phil Scinto,

SwRI – Joe Moore, Bob Warden, Jose Starling

TEI – Dan Lancot

TMC – Dylan Beck

Agenda:

- ISB New Hardware Analysis
- ISM Sludge Analysis
- ISM Old Hardware Analysis
- ISBVIS Transfer to Cummins SP
- Calterm Parameters

ISB New Hardware Analysis:

- There is no significant difference between the corrected N and uncorrected O batch camshaft wear.
 - No ICF needed.
- The uncorrected G tappets are milder than the corrected F tappets.
 - ICF of +1.3147 added to the transformed tappet wear recommended.
- There are concerns about how large the tappet ICF is, it would effectively lower the pass/fail limit from 100 mg to 75 mg.
- More data will be available soon, labs are planning references.

Motion: The panel accepts the recommended correction factor of +1.3147 added to SqrtATWL on batch G tappets and to eliminate the ICF on batch O camshafts for all tests run on this hardware completed 2/25/2025 and later.

Bob Warden motions, Josh Ward seconds.

For: Oronite, Cummins, LZ, SwRI, IAR, Exxon, Infineum, TEI

Against:

Waive: TMC, Afton

Motion carries.

Motion: New hardware, batch G tappets and batch O camshafts, must be brought in through a reference test. Stands must run candidate tests on the hardware batch they were referenced on. The panel directs TMC to work with labs to ensure no net gain or loss of reference intervals.

Josh Ward motions, David Brass seconds.

For: Afton, Oronite, Exxon, Infineum, IAR, SwRI, TEI, TMC

Against:

Waive: Cummins, LZ

Motion carries.

ISM Sludge Analysis:

- No feedback on candidate testing sludge variability.
- Statisticians' recommendation from last meeting is to update targets for 830-3 to a mean of 8.45 and a standard deviation of 0.65, and to make sludge rating a non-critical parameter for reference testing but keep it critical for candidate testing.
- Currently, sludge rating is not tripping EWMA action limits but is very close.

Motion: The panel accepts the recommendation to update the sludge targets for reference oil 830-3. The new mean is 8.45 and standard deviation is 0.65.

Joe Hoehn motions, Bob Warden seconds.

For: Afton, LZ, SwRI, IAR, Infineum, TMC, Exxon,

Against:

Waive: TEI, Cummins, Oronite

Motion carries.

Motion: The panel moves to waive the 2-week waiting period for the prior motions concerning the ISB and ISM LTMS in this meeting due to the critical need for hardware in the industry.

Bob Warden motions, Josh Ward seconds

For: Afton, LZ, SwRI, IAR, Infineum, TMC, Exxon, TEI, Cummins, Oronite

Against:

Waive:

Motion carries

ISM Old Hardware Analysis:

- 12 old batch kits remaining held back for matrix testing.
- TEI has been asked to release the hardware.
 - These kits can be converted to new kits by replacing crossheads and valves.

Motion: The panel is no longer asking TEI to set aside ISM hardware for new reference oil testing.

Bob Warden motions, Joe Hoehn seconds.

For: Afton, LZ, SwRI, IAR, Infineum, TMC, Exxon, TEI, Cummins, Oronite

Against:

Waive:

Motion carries.

ISBVIS Transfer to Cummins SP:

- The balloting period for ISBVIS test closes tonight. The task force agreed the test is no longer under development.
- The last of the BOI/VGRA runs have completed and will be submitted by the end of next week.

Motion: The scope of the Cummins Surveillance Panel is to be expanded to include the ISBVIS 156 and ISBVIS 108 tests, barring any negative responses on the ASTM balloting

Bob Warden motions, Josh Ward seconds.

For: Afton, LZ, SwRI, IAR, Infineum, TMC, Exxon, TEI, Cummins, Oronite

Against:

Waive:

Motion carries.

Calterm parameters:

- Parameter lists need to be compiled and sent to Cummins.
- No ETA on when ECM's will be available at TEI once the list is delivered to Cummins.

Next Steps:

- TMC to alert the panel when 4 ISB references on the new hardware have been completed, panel will review ICF's at that time.
- Labs to send the list of needed Calterm parameters to Josh and passed along to Cummins.
 - Josh will send out the list to labs for final approval.

Next Meeting: When 4 more ISB references have been submitted.