

MACK-Volvo Surveillance Panel Meeting Notes

12/19/2024 @ 2:00 PM EST

Attendees

SwRI: Isaac Leer, Travis Kostan, Robert Warden
Oronite: Josephine Martinez
Afton: Joseph Hoehn, Amanda Stone
Infineum: David Brass (Chairman)
Intertek: Garrett White (Secretary), Khaled Elnagi
Lubrizol: Austin Brininger
CP Chem:
Haltermann:
Exxon Mobil: Mike Shea
TMC: Sean Moyer, Richard Grundza
TEI: Derek Grosch
Ford:
Volvo:
Daimler: Mike Cabaj
John Deere:

Agenda

1. Volvo T-13 Reference Oil Matrix Testing
2. Volvo T-13 Parts Batching
3. Volvo T-13 Procedure Update
4. MACK T-12 Reference Testing with Chevron Delo Extended Life Coolant

Action Items and Key Points

- Labs provided an update on the progress of the new reference oil testing for the Volvo T-13. Labs are all expected to complete by the end of February 2025.
- **Motion passed** to update the wording in sections 8.6.2 and 8.6.3 of the Volvo T-13 procedure that any temperatures or pressures not listed in table 1 test conditions as being controlled, ranged or uncontrolled but record, should be considered non-mandatory and at the discretion of the laboratory.
- Statisticians group to meet in mid-January 2025 to review the ICF recommendations for the MACK T-12 Pb and Pb2 parameters after seeing a mild shift in these results. The group will provide their review and any changes to the recommendations in the next surveillance panel meeting.

Summary of Discussion

Volvo T-13 Reference Oil Matrix Testing

- Each lab provided an update on whether they have started the new reference oil matrix tests.
 - Lab A – Started 1st run, 5 hours completed so far
 - Lab B – Expecting to begin early January
 - Lab G – Expecting to begin early January
 - Lab D – Should finish 1st run before Christmas
- David B – Looks like the labs will complete late February 2025. Statisticians, please note a review will be needed near the end of February 2025.

Volvo T-13 Parts Batching

- An update on the timing of batched parts provided by TEI.
- Derek G – Wrist pins have not been confirmed, will send a message to Mahle asking for an update. Oil rings are expected to be completed at same time as top and 2nd rings. Late February to early March is the expected time frame these will ship.
- TEI received a Jeps order of 124 ring sets (Brazil rings).
- 96 ring sets are on back order with Jeps which should ship in mid-January.

Volvo T-13 Procedure Update

- In the previous meeting, concern was raised about how some measurements should be made non-mandatory, particularly air filter delta pressure and the coolant pump pressure measurements.
- Updates to be added to sections 8.6.2 and 8.6.3.

Joseph Hoehn motions to update the wording in sections 8.6.2 and 8.6.3 that any temperatures or pressures not listed in table 1 test conditions as being controlled, ranged or uncontrolled but record, should be considered non-mandatory and at the discretion of the laboratory.

Sean Moyer seconds the motion

Vote Count: Yes (10), No (0), No Answer (5)

Motion carried

- Sean M - No information letter was sent out for the procedure update making the end of test parts measurements for the T-13 non-mandatory. This will be included in the next information letter along with this procedure wording update regarding the non-mandatory temperature and pressure measurements.

MACK T-12 Reference Testing with Chevron Delo Extended Life Coolant

- Lab A – 1 acceptable calibration test completed
- Lab G - 1 unacceptable and 1 acceptable calibration test completed
- Lab D - 1 unacceptable calibration test completed
- All runs with Chevron Delo 50/50 Extended Life Coolant were completed on the new batch of parts with exception of 1 calibration run which completed on the previous batch of parts.
- Pb and Pb2 triggered mild industry alarms after completion of the previously mentioned calibration runs.
- An operational data review was held on December 2nd which included tests from the Chevron Delo runs, tests with parts batch YFZQWB (current), and prior tests with parts batch X (FsubE) YPWB.
- No notable differences were found in the operational data review.
- Statistical review of the data was conducted in 2 ways, one with coolant as a factor and another without coolant as a factor.
- Evaluation of the oil consumption found the current ICF is correcting this result accordingly to near the target.
- No change to the oil consumption ICF recommended at this time.
- Pb data review with coolant as a factor
 - Optional recommendation of an additive ICF of 0.619 to the transformed Pb result.
- Pb2 data review with coolant factor
 - Optional recommendation of an additive ICF of 0.979 to the transformed Pb2 result.
- Pb without coolant as a factor
 - Optional recommendation of an additive ICF of 0.409 to the transformed Pb result.
- Pb2 without coolant as a factor
 - Optional recommendation of an additive ICF of 0.718 to the transformed Pb2 result.
- Josephine M – How many data points were part of this analysis?
- David B - 4 on the new coolant and 7 on new parts, but 1 of the 4 runs on the new coolant is with the previous parts batch.
- Isaac L – One concern with the OC correction model, the ICF is 2-3 standard deviations of target. Could potentially be over correcting.
- Josephine M – That is something that would need to be reanalyzed.
- David B- It was difficult to re-create how the original correlation was drawn.
- Josephine M – I can check to see if I have any notes or minutes on how the original correlation between lead and oil consumption was calculated.
- Travis K – I am not sure what the urgency is because this is something the entire stats group needs to be involved in. Would be good to take this as a stats group request. Just need a timeline of when we need to provide a response back to the panel.
- David B – Not super urgent but we do need to move along on it sooner than later.
- David B – I am ok with stats group reviewing further. What does the timing look like for the statisticians to meet?
- Travis K – Mid January is probably when I should have time to review. A call at the end of January would be reasonable.

Next Meeting Date/Time

TBD, expected to take place in late-January 2025

Meeting adjourned at 2:41 PM EST