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SEQUENCE IX SURVELLANCE PANEL

Date: 28 Oct 25

ATTENDANCE

SWRI	Khaled Rais, Pat Lang, Travis Kostan
INTERTEK	Jason Soto, Al Lopez, Pablo Ramirez, Bill Buscher
LUBRIZOL	George Szappanos, Phil Scinto, Tony Catanese, Greer gibbons
AFTON	Jason Lekavich, Amanda Stone, Ben Maddock, Layne Tierney, Amanda Stone
INFINEUM	Todd Dvorak, Paul Makarucha
TMC	Dylan Beck, Wes Venhoff
ORONITE	Robert Stockwell,
FORD	Mike Deegan
TOYOTA	Venkat Deshpande
OHT	Jason Bowden
IMTS	Sid Clark, Dave Passmore
EXXONMOBIL	Luca Salvi
HALTERMANN SOLUTIONS	Indresh Mathur

ATTACHMENTS:

➔ **A: Meeting Agenda,**

MEETING:

Attendance. See table above.

Motion to approve minutes from last SP meeting (6 Mar 25), Khaled. Deegan. seconds. Approval unanimous.

TMC Update:

- 221-1 has a 5-year supply
- 224-2 less than one year but re-blend in process
- No alarm
- Aged oil supply ok

Hardware Update:

- IMTS no longer offering pistons, but Diamond is taking over the print and can supply pistons at lab request. If labs are interested in obtaining pistons, they should contact Diamond directly.

- Lubrizol confirmed that they were not able to calibrate on BC pistons.

- Lubrizol showed that the IMTS pistons turned severe instead of mild at end of life which is not the typical trend.
    - Cylinder 1 was most active as in most labs with 1 and 4 being predominant.

- Only SwRI could confirm during the meeting that they have an inventory of the 2019BB pistons (AKA “China Pistons”) . At least one other lab was able to advise that they discarded their 2019BB pistons.

- AC2 pistons worked in the Sequence IX and Sequence X tests but are no longer available. Since there are many other piston designations in the remaining engine it is yet to be determined if they can be used in both tests.

- CA / AA piston skirt clearance is tighter, but clearance specification can be met with MACH2019s.

- IMTS is investigating a reman of EcoBoost 2.0L engines.

AGENDA

ASTM D8291 Sequence IX Surveillance Panel (Teams)

Khaled Rais – Chairman

Tuesday, October 28, 2025

1. Attendance
2. Chairman's Comments
3. Approval of Minutes from Last Meeting
4. Review of action items from last meeting (Khaled Rais)
5. Fuel Supplier Report (Haltermann)
6. LTMS Update (TMC)
    - 6.1. Industry alarm
    - 6.2. New oil blend 221-1
    - 6.3. API01-1 and API02-1
7. Hardware
    - 7.1. IMTS Pistons results and order possibilities
    - 7.2. 2019-BB Quantity
8. New Business and Discussion
    - 8.1. Other items from the panel
9. Next Meeting: Will be at the call of the chairman.