

Sequence III Surveillance Panel Meeting

Teams

Wednesday, June 17, 2026 2:00 – 3:00 PM EST

Agenda

1.0) Attendance

2.0) Review of ASTM Update

Reviewed Sequence III Report presentation to ASTM

2.0) Approval of minutes

2.1) Approval of minutes from 4/15/2026

No objections, approved

Delayed approval of 5/20/2026 due to sending them out late

3.0) Fuel Update

3.1) No issues.

4.0) IIIH Action Items

4.1) IIIH Hardware Updates: J. Bowden, OHT

- IIIH Exhaust cam phasers have been re-worked with backorder fulfilled and the intake cam phaser re-work is in progress and will have updated delivery date later.
- Delivery date for IIIH rebuild oversized rings is unknown but expected soon.

4.2) HW Contract Team Update: A. Rohlfing, Afton

- There has been some progress with different vendors on clarification of procurement and machining
- RFQ v2 for ancillary HW is in progress and will be issued once the labs confirm quantities
Motion to approve IMTS to perform the proposed machine work on the used engine block and cylinder heads for IIIH prove-out by A. Rohlfing second by M. Deegan (full motion is attached)
- Roll call: Motion approved

4.2) Using Reference Oil (RO) from TMC for IIIH Rebuild Testing: R. Stockwell, Oronite

- There has been some progress with different vendors on clarification of procurement and machining
- The IIIH SP previously approved IAR/IMTS to use reference oil from the TMC
- Chair asked if there were any objections to allowing other labs to receive RO from TMC for IIIH rebuild tests.
- B. Campbell: It should be stipulated that any RO can be used as long there is sufficient supply
Motion to allow the TMC to assign reference oil at TMC discretion for use in lab research tests supporting the development of the Sequence IIIH rebuild program. The labs agree to share data and results from these research tests. Motion by R. Stockwell seconded by P. Lang

- No objections or further discussion
- Motion passed unanimously

4.3) Block Machining Update: D. Passmore, IMTS

- Waiting on delivery of fasteners due June 26th, 2026
- Venkat asked questions about thread inserts and Dave described the issue of threads being damaged by the torque to yield bolts.

4.4) MOPAR Engine Kit Parts Order Status: D. Passmore, IMTS

- Contract team will verify the parts list is correct
- IMTS has met with MOPAR component sales
- The engine kit parts minimum order is 100
- TEI stated that they had the same parts list from TMC and could order the parts from the dealership they work with.
- B. Cambell asked D. Passmore to verify that MOPAR had the 9-years of supply of each part, especially oil coolers. If not, recommend that the prove-out matrix and precision matrix be conducted with revised parts.
- D. Passmore assured the SP that MOPAR stated all parts were available in the quantities requested.

4.5) Oil Pump Splash Shield on Current IIIH Discussion

- Some IIIH test engines were built without oil pump splash shields
- Some labs are adding the splash shields if they are missing
- The procedure requires the splash shield
- It was decided to continue to use the splash shields
- Bob suggested that the labs must use the splash shield as currently required now. The splash shield may be removed from the build procedure for the rebuilt IIIH engines during the prove-out

4.5) Piston-Ring Prove-out Discussion

- J. Bowden: OHT is targeting ten sets for the 0.007 and ten sets for the 0.008” oversizes and asked if the stats group had a DOE for the prove-out.
- A. Rolfing stated the Stats group has provided a test matrix for the prove-out

4.0) **Next Meeting**

Teams Meeting July 22, 2026 at 2:00 – 3:30 PM EST

5.0) **Meeting Adjourned**

Meeting Adjourned 3:00 PM EST

Motion: The Sequence IIIH Hardware Contract Team has reached a unanimous decision to approve the following engine remanufacturing process. This work will be performed by IMTS for the proveout testing to evaluate piston suppliers. While these remanufactured engines aren't currently approved for Sequence IIIH testing, the intent is to select a piston supplier to pair with the IMTS-supplied remanufactured engines that in combination will be used to support continued IIIH testing once the current supply of engines are depleted.

IMTS Remanufactured IIIH Engine

Includes:

- Crankshaft Tunnel Re-bore
- Cylinder re-bore
- Threaded insert upgrades
- Head deck resurfacing
- Taper seat cylinder head studs
- Thread and mounting repairs
- Complete cleaning

Engine Kit included with machining:

- (1) Remanufactured block
- (2) Rod Bearing Kits
- (2) Main Bearing Kits
- (2) Main Thrust Bearing sets
- Fasteners for Main Bearing Caps and Windage Tray
- (1) Set of Cylinder Head Taper Seat Studs, Nuts, and Washers
- (1) Set of hollow dowels for head deck and solid rear dowels removed for machining
- Extended storage rust-prevention and packaging

IMTS Cylinder Heads

- Thorough cleaning
- Installation of Stellite intake and exhaust seats
- Resurfaced head deck
- Resurfaced exhaust flange
- Reinforced exhaust mounting holes with inserts
- Exhaust manifold stud kit
- Re-bored camshaft tunnels and implementation of Cam Cap Alignment guide
- Extended storage protection against rust and secure packaging

6-17-2026

ASTM Sequence III Surveillance Panel (19 Voting members)

date:

Robert T Stockwell

Name

Email

Signature:

Present - Voting Members:

Votes:

___ Jorge Agudelo	jorge.agudelo@bp.com	___	___	___	___
✓ Joseph Anthony	Joseph.Anthony@Infineum.com	Y	___	___	___
✓ -Weo- Dylan Beck	djb@astmtmc.org	Y	___	___	___
✓ Jason Bowden	jhbowden@ohtech.com	W	___	___	___
✓ Michael Deegan	mdeegan@ford.com	Y	___	___	___
✓ Seth Demel	samuel.demel@shell.com	W	___	___	___
✓ Venkat Deshpande	venkat.deshpande@toyota.com	Y	___	___	___
✓ Ed Hennessy	ehennessy@jhaltermann.com	Y	___	___	___
✓ Dan Lancot	dlancot@tei-net.com	W	___	___	___
✓ Patrick Lang	plang@swri.org	Y	___	___	___
✓ Dave Passmore	dpassmore@imtsind.com	W	___	___	___
✓ Pablo A. Ramirez	pablo.ramirez@intertek.com	Y	___	___	___
✓ tm Michael Raney	michael.p.raney@gm.com	Y	___	___	___
___ Michael Roguski	micah.roguski@exxonmobil.com	___	___	___	___
✓ Andrew Rohlfig	Andrew.Rohlfig@AftonChemical.com	Y	___	___	___
✓ Amol Sawant	acsawant@valvolineglobal.com	Y	___	___	___
✓ Robert Stockwell	robert.stockwell@chevron.com	Y	___	___	___
✓ Tony Szapannos George Szapannos	george.szapannos@lubrizol.com	Y	___	___	___
___ Haiying Tang	haiying.tang@stellantis.com	___	___	___	___

allow TMC to assign
w/o in research.
per Dylan's judgement
TMC's machines

Name	Email	Signature:
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☐ Yue Zhang	Yue.Zhang@Lubrizol.com

Other Attendees:

✓ Althea (804)

✓ Bill On chene

✓ 586 #

✓ Tony Latanoese