Sequence V Surveillance Panel Meeting

Teams

Monday, March 16, 2026, 9:00 pm – 10:00 am EST

1.0) Attendance

Afton:	B. Maddock, A. Stone
BP:	B. Hochkeppel
Exxon	L. Salvi
Ford:	M. Deegan, R. Zdrodowski
GM:	K. Zreik
Haltermann Solutions:	E. Hennessy
Infineum:	J. Anthony, T. Dvorak
Intertek:	A. Lopez
Lubrizol:	G. Szappanos
Oronite:	R. Affinito, J. Martinez, R. Stockwell
Shell:	S. Demel
SwRI:	C. Exposito, T. Kostan, P. Lang, M. Lochte
TMC:	D. Beck, S. Moyer, B. Transue, W. Venhoff
TEI:	D. Lanctot
Valvoline:	B. Du Chene, A. Sawant

1.0) Approved meeting minutes

The meeting minutes from January 15, 2026 were approved

2.0) Fuel Update:

Haltermann did not ship much fuel since the last SP meeting, but has received recent orders. The fuel has not required RVP adjustments

3.0) <u>Sourcing VH Cylinder Blocks from Salvage Sources</u>

- A. Lopez has contacted Bishop Salvage as a source for salvage Ford 4.6L engines used for the Sequence VH.
    - Bishop is the source for engine blocks to extend the Sequence VG before the Sequence VH.
    - Bishop report 2 different cylinder block casting numbers and it was noticed that
- A. Lopez proposed a motion to use salvage blocks with either part number to extend the Sequence VH
- J. Anthony sent an email before the meeting with the motion statement and was seconded by M. Deegan by email

- J. Anthony asked how confident the labs were that the oil passages could be cleaned as well as the current rebuild blocks.
    - Lopez is confident that the current block cleaning procedure is sufficient, but if an issue is found, new procedures for inspecting and cleaning salvage blocks.
- A. Lopez proposed to have a vote on the motion from an email sent to the Chair the week before this meeting,

  "The Sequence VH surveillance panel to allow the use of Bishop salvage blocks in the VH test. Salvage block casting numbers are 7L2E-6015-BA and 7L2E-6015-CA.
  Salvage blocks to be introduced with a calibration test.

  Note that the use of salvage blocks in the VG test was allowed with no motion and did not require a calibration test."

- This motion was discussed further,
    - R. Stockwell asked whether other labs would be interested in selling engine blocks.
        - Lopez noted that he had not asked, but indicated there would still be a need for additional blocks regardless.
    - R. Stockwell asked whether there are other checks that should be performed.
        - A. Lopez stated that some salvage blocks were rejected during the Sequence VG rebuild program and the procedure would be similar to the Sequence VG extension program
    - There was discussion about what block failure modes and inspection techniques.
        - M. Deegan was asked where Ford sources their blocks for re-manufacture
        - M. Deegan stated that he was not certain where the blocks are sourced, but return cores are the most common method for obtaining blocks.
    - M. Deegan suggested tracking whether blocks are salvage or non-salvage in LTMS by adding an "S" designation for salvage units.
        - S. Moyer (TMC) suggested the using the engine number field and designate salvage blocks as S-XXXX
    - A. Lopez noted new block have had issues in the past, which led to past investigations.
    - L. Salvi asked about the next steps if the reference run fails, including whether the group would reconvene and re-vote.
    - A. Lopez explained that during the VG program there was no formal motion. The current plan is to run two salvage blocks. He noted that while he could deplete the existing inventory, the blocks could also be run now. The intent is to investigate whether the VH test can be extended into GF-8 and understand how far it can be extended.

- A. Lopez emphasized that the test stand needs to be calibrated and would not use a salvage block for reference if the VH SP was not comfortable with the salvage block.
- B. Maddock stated that he does not see an issue with using salvage blocks, as they have the same casting number.
- R. Stockwell will share his source for new cylinder blocks
- Most of the SP agreed that having data from a salvage block before the industry exhausts the new block supply would be valuable.

A. Lopez made the following motion:

- *"Approve running salvage block engine reference at IAR to check out performance and allow stand to be calibrated pending successful reference test."*
- Motion seconded by R. Stockwell

Afton:	B. Maddock	Approve
BP:	B. Hochkeppel	Approve
Exxon	L. Salvi	Approve
Ford:	M. Deegan	Approve
GM:	K. Zreik	Approve
Haltermann Solutions:	E. Hennessy	Approve
Infineum:	J. Anthony	Approve
Intertek:	A. Lopez	Approve
Lubrizol:	G. Szappanos	Approve
Oronite:	R. Stockwell	Approve
Shell:	S. Demel	Approve
SwRI:	C. Exposito	Approve
TMC:	D. Beck	Approve
TEI:	D. Lanctot	Waive
Valvoline:	A. Sawant	Approve

Motion approved, 14 Approves, 1 Waive, 0 Negatives

4.0) VH O&H Update

- O&H is reviewing reference data and expects to be ready by April and we will schedule a SP meeting in May to discuss the review by the Stats Team.
- VH O&H received ethanol fuel responses from suppliers and will be discussed at the next VH SP meeting.
- A. Lopez asked Ford about oil pumps; M. Deegan will look into the oil-related items.

5.0) Meeting Adjourned

- Meeting adjourned at 10:00 am EST
- Next meeting after IAR's reference test results are available

Sequence VH O&H

March 2026

M-000054-3 Review

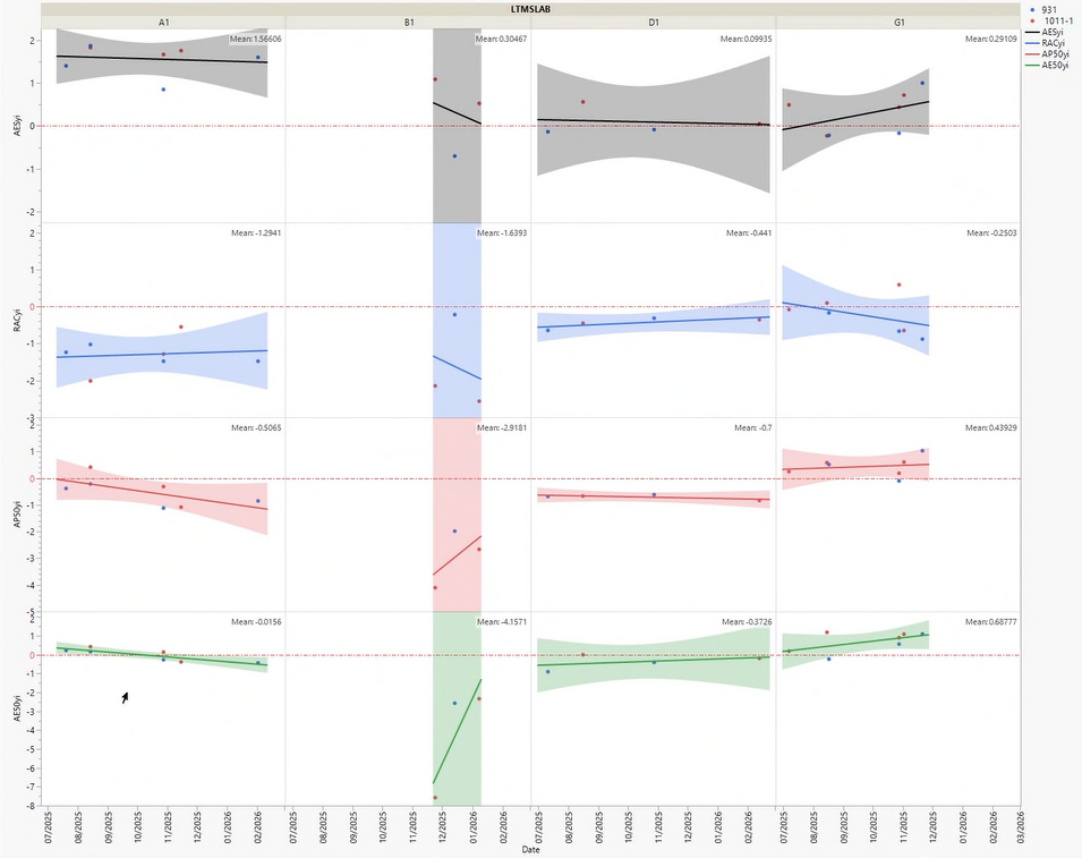
- Approved the batch on October 28, 2025 with 13 tests
  - 8 additional data points available with 3 to 4 more in March

- Labs agreed to wait until April to inquire with Stats Group

	A1	A2	G1	G2	D
CMIR	940 (175651)	931 (193861)	940 (175644)	1011-1 (191485)	931 (190601)
	931 (193862)	1011-1 (193857)	1011-1 (199200)	931 (191483)	1011-1 (190602)
	1011-1 (193858)	931 (200605)	931 (199198)	1011-1 (199201)	931 (193864)

M-000054-3 Review

- Preliminary review with Todd Dvorak indicates:
  - AES - Lab issue
  - RAC - Mild, may be a candidate for an ICF
  - APV - Mixed, lab issue
  - AEV - Mixed, lab issue
- Stand based system could be considered



O&H

- Fuel
  - Three fuel suppliers were contacted for comments around:
    - Oxidation stability
    - Distillation
    - Ethanol
  - Commentary has been shared through VH O&H minutes but not yet prepared to make any SP actions
    - https://www.astmtmc.org/ftp/docs/gas/sequencev/minutes/V%20O%20and%20H%20Subpanel/VHOandHMinutes20260217.pdf

- Hardware
  - FCS / Bishop order to secure additional 4.6L hardware