

Sequence VH O&H Meeting + Sequence VJ Working Group

July 22nd, 2026 at 2:00 PM EST via MS Teams

Attendees: Tony Catanese, Al Lopez, Joe Anthony, Rob Zdrodowski, Mike Deegan, Jason Soto, Amol Sawant, Bill Du Chene, Ben Maddock, James Oquin, Kyler Daniel

Overview:

1. Hardware
2. Operation
3. VJ Working Group

1. Hardware

- a. Inventory Life (as of December 2025)
 - i. Lab A = ~2028
 - ii. Lab B = ~2030
 - iii. Lab D = ~2030
 - iv. Lab G = ~2028
- b. Various hardware orders
 - i. **Bishop Order 2026**
 1. Adrian Ramirez, 214-207-3697, aramirez@bishopengine.com
 2. Confident that he can meet 100 engines/year demand for some time
 3. Communicated that December 2026 is critical date to determine the difference between a 2-year supply order and a 10-year supply order
 - ii. **FCS Order 2026** – per Derek Grosch (TEI) the order is partially defined but still not complete
 1. TEI is working to populate the list with costs, lead times and minimum quantities.
- c. PCV Valve - D8ZE-6A666-A2B – verify and add to TEI / FCS list
 - i. Ford to investigate if a similarly specified alternative may exist

2. Operation

- a. ON HOLD due to VJ priority - Tightened piston to bore clearance
 - Current: 0.020 to 0.046 mm
 - Proposed 0.030 to 0.038mm, average of all eight cylinders

3. VJ Working Group

- a. Tracking sheet
- b. Lab updates
 - i. Carless fuel: Intertek believes 2000 USG of detuned E0 fuel may be available in 2 weeks.
 - ii. SwRI next run starting soon
 1. Updated break-in schedule to match Ford-defined specification
 - iii. Lubrizol
 1. Big gaps, V2 Wiseco pistons, Seq X blowby tree, 8h Ford break-in
 2. Adjusted operational stages to match SwRI
- c. Fuel supply
- d. Actions:
 - i. Labs to review Itms document and send any revisions or updates to Ben
 1. SwRI completed, pending review by LZ and Intertek
 2. If available, please send your prelim sheets. I would like to expand the "Itms" document
 - ii. Labs to log engine serial numbers
 - iii. SwRI & Afton to confirm if they've observed intake valve stem wear like Lubrizol has

Labs to reconvene briefly next week to agree on stand configuration.

Proposal:

1. Split the labs, two on Carless and two on Solutions fuel
 - a. Solutions fuel labs explore oil consumption issue
 - b. Carless fuel labs replicate Intertek data with detuned fuel and intermediate inspections (terminate on OC if excessive)
2. Hardware
 - a. Haltech PCM with SwRI calibration
 - b. Oil pans to use chilled variant
 - c. Blowby stack to meet Seq X configuration with VJ PCV valve on top and no cooling through heat exchanger
 - d. Atkinson valve timing
 - e. Stock pistons in new stock blocks per TEI (Ford to increase supply)
 - f. Keep oil squirters
 - g. 0.060" ring gaps with blowby as-is
 - h. Break-in to match Ford break-in procedure
3. Operation TBD

- iv. The proposal was not agreed upon and will be discussed on 7/29/2026

O&H Historical Logbook

Date	Topic	Description	Comments
2/12/24	-	O&H formed.	
2/29/24	Hardware	Cam cap anaerobic sealant	IL24-1
3/5/24	Hardware	Cam bearings resolved with King Bearing supply to TEI.	Incl. SwRI bearing analysis
3/12/24	Fuel	N-000010-1+ CofA data integrity review.	Included lab samples to Saybolt
3/26/24	Fuel	Quarterly samples now from test cell	
4/9/24	Hardware	Piston oil hole size differences by piston size not statistically significant to APV	
4/16/24	Operation	Build Workshop conducted	IL24-3 and IL24-4
5/21/24	Fuel	AO content depletion in transit	
5/21/24	Operation	Honing data analysis uninterpretable due to measurement differences	This will be revisited after 2025 fuel approval matrix
6/4/24	Hardware	OHT3G-096-1 brushes explained	IIIG efforts
7/9/24	Operation	OSCR raters group imprecision reviewed	
8/27/24	Hardware	FCS order placed on pistons and rings	
8/27/24	Operation	N-10-1 approval vs PM statistical analysis	
1/7/25	Fuel	RVP adjustments vs fuel dilution	
4/29/25	Operation	Blowby Cart Questions - 5/16" orifice	Equation difference, ~0.1 L/min
8/19/25	Hardware	2024 FCS order has completed	
9/16/25	Operation	Engine Swap experiment Lab A & G	Fuel dilution moves with build
10/28/25	Fuel	M-000054-3 fuel batch approved.	
12/17/25	Operation	Updated report form to capture piston dia.	Version: 20251222
2/17/26	Operation	Severity alarms discussed ahead of Stats review	Some indication of RAC ICF. Other parameters are lab issues
2/17/26	Fuel	Fuel supplier feedback on ethanol, distillation and oxidation stability	O&H needs to summarize and create action plan
5/19/26	Fuel	Preliminary review of updated M-000054-3 stats analysis	No ICF is still appropriate