**Sequence VH O&H Meeting**
**November 18th, 2025 at 3:00 PM EST via MS Teams**

**Attendees:** Tony Catanese, Al Lopez, Dylan Beck, Joe Anthony, Ben Maddock, Christian Exposito, Pat Lang, Rob Zdrodowski, Mike Deegan

**Overview:**

1. Hardware
2. Operation
3. Fuel
4. Other

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1. **Hardware**
    a. Inventory Life
        i. Lab A = *needs to verify inventory*
            1. New test engineer Christian Exposito
        ii. Lab B = ~2030
        iii. Lab D = ~2030
        iv. Lab G = ~2028
            1. 200 runs remaining @ 70 runs per year
            2. Looking to buy spare inventory from Lab B that should suffice to 2030

    b. Ford requests block casting numbers to check for reman options

2. **Operation**
    a. Tightened piston to bore clearance
        - Current: 0.020 to 0.046 mm
        - Proposed 0.030 to 0.038mm, average of all eight cylinders

        i. Labs B, G and D are ok with proposal
        ii. Lab A requires additional time to review due to personnel change

    b. Report form update in progress with TMC

3. **<u>Fuel</u>**
    a. Lab B is currently attempting calibration
        i. Fuel dilution reported in the ~18% range
    b. Lab G has observed lower fuel dilution in candidate work around the ~15% range

    c. M-000054-3 additional runs (*minutes completed 11/24/2025*)
        i. Lab A: 1 completed
            1. 200603: AES 1.75 σ mild
        ii. Lab D: 1 expected in January 2026
        iii. Lab G: 2 completed
            1. 201949: AES 0.7193 σ mild
            2. 199199: AES 1 σ mild

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. | |