

Sequence VH O&H Panel Meeting
February 22, 2024 9AM EST via Teams

Attendees:

▼ In this meeting (8) Mute all

- Maddock, Ben
Organizer
- AI Alfonso Lopez ... (Unverified)
- AS Amol Sawant (Unverified)
- TC Catanese, Tony (Unverified)
- DE Dan Engstrom ... (Unverified)
- JG Gleason, Joseph (Unverified)
- AR Ritchie, Andrew (Unverified)
- JW Wolfe, Justin (Unverified)

▼ Others invited (1)

- Campbell, Bob
No response

Topics:

1. Fuel Analysis

- a. (Discussion deferred to 2PM EST Surveillance Panel Call)
- b. Haltermann conducting analyses on current samples from SWRI & IAR
- c. Afton, LZ, SWRI conducting separate analysis via Saybolt
- d. Notes from email discussion down below

2. Cam Bearing Update

- a. References with set aside batch cam bearings
 - i. IAR complete – 185340 – AES Yi -1.1167
 - ii. SwRI complete – 175647 – AES Yi -1.2281
- b. References with King cam bearings
 - i. Intertek currently running with no observable issues
 - ii. SWRI currently running with no observable issues
 - iii. Afton expected SOT 3/5/24

Motion: Mandate the application of sealant between camshaft cap and cylinder head (needs wordsmithing)

7.6.2 Motorcraft Gasket Maker TA-16 or equivalent—Use between the 6th intake and exhaust camshaft cap and the cylinder head.

- c. Seq X example:

3. Build Workshop Date

- a. Targeting April 16th and 17th in San Antonio, TX

- i. Afton: 2 build technicians
- ii. Intertek: 1 build technician
- iii. Lubrizol: 2 build technicians
- iv. SWRI: 2 build technicians
- v. Valvoline: 1 build technician

4. Hardware

- a. The group has not been focused on this topic but plan to address in the coming meetings
- b. Part Numbers
 - i. Gasket kit

Motion: SwRI to motion for the acceptance of new superseded part numbers found in the latest gasket kit

- ii. Sunnen honing stones
- c. Inventory
 - i. Pistons
 - ii. Oil Pans
 - iii. Blocks
 - iv. FCS order

Appendix:

Notes on Fuel discussion that happened via email.

- a. Sandra Kaluza at Saybolt provided the following costs per analysis type.
- b. Ben spoke with Afton’s fuel expert and she suggested also testing for composition (D1319, D5769), oxid stability (D525) and gums (D381)
- c. With the high price for a full Certificate of Analysis, I would like for us to capture some combinations of Options 2, 3 and/or 4. I’ve proposed the following:

		Full CoA	DHA	RVP, Grav, Distillation	RVP, Grav, Distillation, Composition, oxid, gums	Tests
		\$4,980.60	\$665.70	\$300	\$2,164.80	Est. Cost
		3-5 days	2-3 days	2-3 days	2-3 days	Turnaround Time
		1 USG	10 mL	1qt	1qt	Sample Size
Lab	Batch	Option 1	Option 2	Option 3	Option 4	Status
Afton	GI0321NX10-1		x		x	Arrived
Afton	GI0321NX10-1			x		Arrived
Afton	N-000010			x		Arrived
Afton	N-000010			x		Arrived
Afton	N-000010-2			x		Arrived
Afton	N-000010-5			x		Arrived
Afton	N-000010-8			x		Arrived

Afton	N-000010-11		x		x	Arrived
Valvoline			x		x	
Lubrizol	N-000010-4		x		x	Shipped
SwRI	N-000010-12		x		x	Shipped
Intertek	N-000010-13	x				Haltermann analysis

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- d. No results have been received yet.
- e. SwRI & IAR have given samples of their latest batch to Haltermann directly to be analyzed.
- f. Intertek met with Haltermann last week in person.
 - v. Indresh showed carbon analysis and distillation curves that showed the fuel was still within spec.
 - vi. IAR questioned the lack of distillation data. They were not running the D86 with every RVP adjustment. They kept posting the same numbers from Batch N-000010-7 all through batch 13
 - vii. By contract every time the fuel is adjusted, the complete slate of COA analysis must be performed and data forwarded to the TMC and new COA with each load delivered.
- g. Reminder for labs to conduct quarterly analyses and send samples to Haltermann
 - viii. Haltermann Solutions
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8.2.6 Laboratory Storage Tank Fuel Analysis—Analyze the fuel stored at laboratories and for calibrated Sequence VH tests quarterly. Laboratories should take composite samples using Table 1 in Practice D4057, as a guideline. The fuel supplier shall have the capability to analyze the fuel samples using the test methods specified in Table 3 and this section. The fuel

ix.

supplier shall provide an adequate supply of fuel sample containers with packaging and pre-addressed return labels to each Sequence VH laboratory. Upon receipt of all fuel samples required in 8.2.6 from the laboratories, the fuel supplier shall perform the following analyses, report the results to the submitting laboratory, and tabulate the results in a database.

- R Reid vapor pressure (Test Method D323)
- API gravity (Test Method D267 or D1298)
- Distillation (Test Method D86)
- Lead (Test Method D3237 or D5059)
- Washed gums (Test Method D381)
- Unwashed gums (Test Method D381)

X. -----