

Sequence VIE/F Engine Rebuild Task Force

Call Agenda

April 6th @ 8:00 AM CST

Call-in number: (800)391-9177

Conference Code: 4875645502

Scope:

The ASTM Sequence VI Surveillance Panel requested a Task Force be formed to explore the possibility of extending the life of the Sequence VIE specially built General Motors (GM) 3.6 L (LY7) engine. New engines will be built from new GM assembled short blocks and other new and used individual components.

Objective:

The Task Force will:

- Review GM's proposal of building new VIE engines from new GM assembled short blocks and new GM individual components.
- Determine total quantity of engines needed.
- Determine parts availability and acquisition for new engine build. Coordinate with OHT and GM.
- Determine which used parts from used VIE engines will be needed for new engine builds.
- Determine availability of these used parts and develop inspection and selection criteria.
- Inspect and select used parts for use in new engine builds (each lab will be responsible for this task).
- Develop and implement a standardized build procedure (engine assembly manual).
- Determine stand availability for testing lab built engines.
- Develop a test plan to prove out lab built engines.
- Report results, conclusions and recommendations to Sequence VI SP.

The agenda for this meeting is shown below, if you have any additions please send them to me and Cc this distribution.

1.0 Roll Call

Do we have any membership changes or additions?

2.0 Approval of Minutes from meeting 3/30/2017.

ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIE_FEngine%20RebuildTaskForce20170330.pdf

Adrian, Jason, Unanimous

3.0 Action Item Review

3.1 Labs to email Rich Grundza and provide timeline to start prove out test.

3 labs responded with start dates, one lab still pending.

3.2 Submit all corrections for the build manual by 5 April 2017.

Next meeting will complete final review and vote on approval for recommendation to the seq. VI SP

3.3 Adrian will work with Tim to select a unique SN from within the engine ID number. See 5.1.

3.3.1 Add a note to the build manual clarifying the engine ID number. The number should be the 10 digit number etched/stamped on the block (picture will be added to the manual).

4.0 Old Business

4.1 Review fixed phasors reuse, inspection procedure.

~~4.2 IAR will work with SwRI on fixed gears groove and lubrication~~

4.2 Should rework/repairs be allowed, follow up after rebuild workshop.

5.0 New Business

5.1 Adrian will work with Tim to select a unique SN from within the engine ID number.

A2030 This top line is A = HFV6 block and 030 is the Julian date: so January 30 of 2012

0108 This number is on that day number 0108 block built.

Options:

1. Use the complete 8 digits number (without the A)
 - a. Last 3 or 4 numbers cannot be used because there is a possibility the number could repeat even if a lab code letter is added to the numbers.
2. Every lab serializes their engines starting with 100, adding a lab letter code (example G) and adding 1 to indicate these are the first batch of short blocks. So the serial number for the first kit to be built would be 100G1, second 101G1, third 102G1, etc. For other labs would be 100A1 or 100B1, etc. Once we transition to the second batch of kits the number could be 500G2, 501G2, etc. If there is a concern with labs identities easily determined through the serial number we could then request TMC to assign the lab letter codes to the labs.
3. Same as 2 but we assume 100s are for first batch and 500s are for the second batch of kits and the serial numbers are then one character shorter: 100G, 101G, 102G...500G, 501G...
4. Labs generate their own ID number followed by a letter assigned by TMC (unique for every lab). This ID will be used in the test number. The engine SN section in the report shall be the block etched number.

Motion: The Engine Rebuilt Task Force recommends to the seq. VI SP to allow labs to select a 3 digits number followed by a letter (provided by TMC to ID labs and make the number unique) for the test number, engine ID section of the report.

Adrian, Amol, Unanimous

6.0 Review of action items.

- Labs to respond to TMC with estimated start dates of prove out matrix
- Once all labs provide starting dates, a timeline will be created and presented to this task force. Adrian
- TMC will generate unique ID letters for labs to use for short block engine build IDs.

7.0 Schedule for next conference call.

TBD – Pending completion of prove out matrix timeline.