

Sequence VIE/F Engine Rebuild Task Force
Call Agenda
June 30th @ 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 6/16/2016.

ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIE_FEngine%20RebuildTaskForce20160616.pdf

3.0 Action Item Review

- 3.1 Engine KITs completion and shipping – **Expected by mid-July**
- 3.2 Scott will contact GM to attempt to acquire more sort blocks – **In progress**
- 3.3 Adrian will develop a timeline for completing the scope of this TF – **Completed/can change based on Stats input on prove out recommendation.**
- 3.4 Adrian to contact stats group about prove out test design – **After consulting with our Statistician Martin Chadwick I propose to table the request to the stats group until we have an LTMS (~the week of 25 July)**

for the VIE. There are two main reasons for this, one to have a better idea what oils and order to use for the short blocks and second to not overload the stats group even more than what they are now.

3.5 Rich to contact stats group about cleaned engine run order – To be discussed in the cleaning TF

4.0 Old Business

- 4.1 Need to write up storage procedure for labs to follow (include cleaning procedure to remove RP).
- 4.2 Coordination of engine build workshop early 2016.
- 4.3 Review fixed phasors reuse, inspection procedure.
- 4.4 Should rework/repairs be allowed, follow up after rebuild workshop.

5.0 New Business

5.1 Can we acquire more GM short blocks? There are blocks and left heads available but only ~400 right heads available. I suggest acquiring all of the available hardware to complete as many kits as possible. How are we going to distribute? I suggest distributing as a percentage of the quantities submitted by the labs.

Can right heads be rebuilt?

How many more short blocks and left heads are available?

- Determine the total amount of kits-2 (from survey)
- Proceed to order the available complete kits (around 450)
- These kits will be distributed as a percentage of the survey for each lab
- Determine the deficit of kits and proceed to order the kits without one head
- These kits without one head will also be distributed as a percentage of the survey for each lab
- Will need to research the reuse of right heads
- Labs are recommended to save the heads from the short block kits for reuse in the kits that are missing one head. It is not recommended to reuse the heads from engines previous to the short block kits.

5.2 Review of proposed TF Completion Timeline:

- Completion of cleaning and assembly manual by 1 August 2016
- Completion of engine prove-out testing by 1 October 2016 - Can change based on Stats group input
- Completion of data analysis by 1 November 2016
- Transition to new engine expected by summer 2017

6.0 Review of action items.

7.0 Schedule for next conference call.

14 July.