

Sequence VIE/F Engine Rebuild Task Force
Call Agenda
June 16th @ 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 3/24/2016.

ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIE_FEngine%20RebuildTaskForce20160609.pdf

Motion to approve Adrian, Nathan 2nd Unanimous approval

3.0 Action Item Review

3.1 CP Chem Result Discussion – **Completed**

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**

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?

Still TBD, there are still engines in inventory. Cleaned engine should be priority if it could affect engine order.
Current order ready to ship mid-July

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 –Need stats group input
- Completion of data analysis by 1 November 2016
- Transition to new engine expected by summer 2017

Cleaned Engine Discussion:

- Need to have a cleaned engine that has RO runs before cleaning to check relative performance.
- Should run multiple RO's on cleaned engine to check impact on engine hour correction and how long engine lasts
- *SWRI engine did not run RO prior to cleaning procedure
- Motion: Used current cleaned engine to evaluate performance post cleaning procedure. Dan W., Adrian 2nd Unanimous approval
- Should we use new rings if available? Need GM to confirm if ring specs are the same between VID and VIE engines. Also check inventory gasket kits and yield bolt. OHT has some parts available if there are the same.

6.0 Review of action items.

- Adrian to contact stats group about prove out test design
- Rich to contact stats group about cleaned engine run order

7.0 Schedule for next conference call.

Adrian Alfonso	Intertek	Attend
Bill Buscher	Intertek	
Charlie Leveret	Intertek	Attend
Martin Chadwick	Intertek	
Jason Bowden	OHT	Attend
Matthew Bowden	OHT	Attend
Dan Worcester	SWRI	Attend
Khalid	SWRI	
Caleb	SWRI	
Timothy Cushing	GM	Attend
Scott Stap	GM	Attend
Walt Lerche	GM	
Gordon Farnsworth	Infineum	Attend
Andrew Ritchie	Infineum	
Mike McMillan	Infineum	

Cliff Salvesen	ExxonMobil	Attend
Valerie Lieu	Chevron	
Kaustav Sinha	Chevron	
Amol Savant	Ashland	
Dave Caproni	Ashland	
Dave Glaenzer	Afton	
Terry Hoffman	Afton	
Todd Dvorak	Afton	
Jerry Brys	Lubrizol	Attend
Nathan Moles	Lubrizol	Attend
Satoshi Hirano	Toyota	
Teri Kowalski	Toyota	
Jim Linden	Toyota	
Mark Adams	Tribology Testing	
Rich Grundza	TMC	Attend
Katerina Pecinovsky	Lubrizol	Attend