

PERFORMANCE TESTS

Sequence VID

SCOPE

The Sequence VIB test, used to determine the engine oil effect on fuel economy, will be replaced with the Sequence VID test for GF-5. A Consortium was formed to oversee development and provide funding for development of the new test and comprises:

- Five additive companies
 - Infineum, Afton Chemical, Lubrizol, Oronite, R.T. Vanderbilt
- Three oil companies
 - Chevron, ExxonMobil, Shell
- Two automotive companies
 - General Motors, Ford

STATUS

Test details were released by the Consortium to ASTM in a detailed report.



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Presentation

A research report on the test was recently issued to ASTM and can be found at the TMC Web site.

www.astmtmc.cmu.edu/docs/gas/sequencevi/VIDConsortium/

The baseline weighting details are as follows:

- 3 Baseline runs will be run for each test: BLB1, BLB2, BLA
- BLB2 must be within -0.20% to +0.40% of BLB1, otherwise BLB3 needs to be run
- Baseline weighting for FEI-1: 0% BLB1, 80% BLB2, 20% BLA
- Baseline weighting for FEI-2: 0% BLB1, 10% BLB2, 90% BLA

The Stage weighting details are as follows:

Stage	3	4	5	7	8	9
Weight, %	30	3.2	31	17.4	1.1	17.2

The updated timeline for the VID test development is shown here:

	2008					2009											
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ASTM Seq. VID Precision/BOI/VGRA Matrix																	
MOU & Funding																	
Matrix Oil Procurement, Blending & Distribution																	
SP to Resolve Test Issues - Oil Pressure, Fuel Diffs, MAP, etc.																	
BL and Flush Oil Procurement for Life of GF-5																	
Engine Procurement for the Life of GF-5																	
Run Step 1 of the Precision Matrix																	
Calibration Oils Decision and Homogination by TMC																	
Run Step 2 of the Precision Matrix																	
Statistical Analysis of Matrix																	
ASTM Test Acceptance of the Sequence VID																	
ACC Registration Begins																	
Technology Demonstration for GF-5																	
ILSAC/Oil Approve GF-5 Specification																	

The precision matrices are now expected to start some time in December.

Details of the precision matrix oils are provided in the attached API presentation made at the October 23, 2008 ILSAC/Oil meeting.



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Presentation