

Mack T-10

Task Force Report to HDEOCP

Sept 20,2000

Mack T-10 Test Parameters

- * Primary Parameters
 - » Average Cylinder Wear
 - » Average Ring Weight Loss
 - » Pb-Content of Used Oil
 - » Oxidation via Integrated IR Method
 - » Oil consumption
- * Secondary parameters
 - » Lubricant TBN Depletion and TAN Increase
 - » Bearing Weight Loss
 - » Piston deposits
 - » Bore polishing

Test Development Accomplishments

- * Repeat data on several oils using latest version of test procedure
- * Lab visitations completed
 - » Action items identified for each lab
 - » All labs to comply with procedure per September 15, 2000
- * More reliable hardware / measurements
 - » Test with TEI manufactured EGR system completed
 - » Matrix tests to be run with this EGR system
 - » Oil consumption measurement improved by lowering pick-up point in sump; more oil in the weighing bucket
- * Oxidation by integrated IR
 - » Used T-10 oils have been distributed
 - » Round Robin in progress

Work in Progress

- * Operation and Hardware Subgroup
 - » Manufacturing / Coating of intake manifold and venturi
 - » Gathering data on intake air humidity
 - » Defining oil consumption measurement method
- * Chemical Analysis Subgroup
 - » Round Robin for Integrated IR Oxidation measurement
 - » Uncertainly about the method
 - » Meeting being planned for October

Mack T-10 Ready for the Industry Matrix

- * At the HDEOCP on June 27, 2000, the Mack T-10 Task Force recommended that the T-10 test be moved forward for Proof of Concept, with the caveat that Task Force will reconvene to determine that the test is matrix ready before the matrix is started
- * More repeat data has been obtained and reviewed by the Task Force
- * Requirements for matrix readiness have been met
- * The Task Force feels the test is ready for the matrix