

Mack T-13 Task Force

Scope & Objectives

July 18, 2012

Scope:

This Task Force is responsible for development of the Mack T-13 engine test. It is accountable to the Mack Test Surveillance Panel, the ASTM Heavy Duty Engine Oil Classification Panel, and subsequently to ASTM Sub-Committee B0.02.

The Task Force will strive to achieve its objectives via close cooperation and interaction with the test sponsor, participating test laboratories, and other ASTM functions (including Task Force Sub-Groups, the Test Monitoring Center, and the designated Central Parts Distributor).

Objectives	Completed
1. Evaluate preliminary test configuration and operational conditions and develop accordingly	
2. Expedite test procedure consistent with PC-11 timeline	
3. Identify and evaluate key performance criteria	
4. Demonstrate discrimination with respect to key performance criteria	
5. Optimize test procedure for maximum test precision and reliability	
6. Monitor PC-11 matrix execution	
7. Monitor/assist statistical evaluation of matrix data	
8. Recommend HDEOCP endorsement of T-13 test, key performance criteria and associated limits	
9. Complete ASTM ballots for test approval / PC-11 inclusion	
10. Complete ASTM ballots of Mack T-13 research report	

Specific Activities:

1. Develop primary test parameters
 - a. Cylinder liner wear
 - b. Top ring weight loss
 - c. Oil Consumption
 - d. Lead content of EOT lubricant
2. Evaluate and compare range of secondary test parameters
 - a. Lubricant oxidation
 - b. Top ring side wear
 - c. Bearing weight loss