

LUBE

TECHNI-GRAM



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NEWS FLASH...306 15W-40 APPROVED FOR MACK EO-M PLUS !

As heavy-duty diesel engine performance is improved to meet the needs of the 21st century, the performance bar continues to be raised for the oil protecting those engines. One of the challenges that will face the industry in the next century is the ability to produce diesel engines that operate as close to environmentally neutral as possible. The engine builders are responding. Diesel engine emissions, in the form of NOx (oxides of nitrogen), hydrocarbons and particulates, are being reduced as new combustion strategies are introduced.

As diesel engine operating conditions change, heavy-duty engine oils are facing challenges such as higher engine temperatures, higher soot loading, and a generally more abrasive environment.

As part of SWEPCO's ongoing commitment to quality, cutting edge technology and advanced protective additive chemistry that assure SWEPCO customers of optimum lubricant performance and protection, we are pleased to announce the approval of SWEPCO 306 15W-40 for Mack's new, more stringent, MACK EO-M PLUS specification.

Mack EO-M PLUS is a new specification that describes premium high performance oils. The oils described by this specification are suitable for use in all MACK engines and are mandatory in Mack's 1999 engines and/or engines in severe or extended drain applications. SWEPCO 306 15W-40 combines advanced new-generation additive technology with superior thermal and oxidation stable basestock to ensure long distance oil drains, as well as superior protection for high-speed, low-emission, four-stroke diesels in heavy-duty, on and off-highway trucks. Customers save money through reduced engine wear, reduced downtime and improved fuel economy.

Southwestern Petroleum has always manufactured lubricants that go beyond the "basic requirements" and have marketed its products on the basis of:

- Higher performance and protection
- Longer drain intervals
- Lower oil consumption



... to keep it running

In keeping with this tradition, it is important to note that SWEPCO 306 15W-40 was approved for Mack EO-M PLUS **without** modification to the formula for SWEPCO 306 15W-40 previously approved for Mack EO-M! Keeping with tradition, SWEPCO 306 not only meets the new Mack EO-M PLUS specification, it exceeds the standards of every significant engine test available.

Validation for EO-M PLUS approval required passing extensive testing including the MACK T-8E 300 hour engine test, the Mack T-9 500 hour engine test, and the Cummins M-11 200 hour valve train wear test. These engine tests are not new to the industry as they were required to meet the Mack EO-M, Cummins 2071 and API Service CH-4 diesel engine oil category. These tests are representative of modern engine hardware designs, and are run at conditions that stress and effectively test the engine oils in these modern designs to allow indication of performance in such areas of soot loading, viscosity increase and wear prevention. While these basic engine tests were selected for both Mack EO-M and the new EO-M PLUS, the specific requirements for results outlined in the EO-M PLUS specification are much more demanding than those required for EO-M.

It should also be noted that, while customers utilizing EO-M PLUS advanced technology can be assured of better performance than previous oil classifications, it certainly does not mean all EO-M PLUS engine oils will perform the same. Many standards such as, EO-M, EO-M PLUS and American Petroleum Institutes CH-4 requirement are based on pass/fail results or minimum guidelines. SWEPCO engine oils have much stronger, harder working advanced additive chemistry and proprietary additives designed to give superior protection for longer periods of time. SWEPCO engine oils are manufactured to not only meet but well exceed stricter OEM requirements such as Mack, Cummins, Caterpillar, Detroit Diesel etc., and their performance goes beyond API standards. In many tests, SWEPCO's documented performance passes when run at **double and beyond** the normal test parameter limits. SWEPCO engine oils are manufactured for optimum performance and protection and provide value-added costs savings to customers through maximum long drain intervals and extended engine life.