

**SYNTHETIC BLEND HD 15W-40 MULTIGRADE PLUS
HEAVY-DUTY MOTOR OIL**
[Meeting API Service Levels CF, CF-4, CG-4, CH-4, CI-4, CI-4 PLUS/SM]

	<u>Typical Properties</u> 15W-40
SAE Grade, Automotive	
Viscosity, cSt	
At 40° C	113
At 100° C	15.2
Viscosity, SUS	
At 100° F	616
At 210° F	81
Viscosity Index	140
Viscosity, CCS, D-5293, -20°C/cP	6600
Flash Point, (COC), °F	425
Pour Point, °F	-25
Sulfated Ash, %wt	1.40
Neutralization No., TBN-E	11.2
HTHS, Vis/cP, D-4683	4.0
Gravity, API @ 60° F	29.0

The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.

A premium-quality, multigrade crankcase oil for all-season use in commercial mixed-fleet engine operations. The product is manufactured from selected premium quality hydroprocessed mineral oils and synthetic base stocks. It is formulated with the most current V.I. polymer and additive technology to meet performance requirements in all naturally aspirated, turbocharged and supercharged diesel engines as well as all four-cycle gasoline engines. The product reflects API CI-4 test improvements in reducing aeration, better oxidation stability, enhanced soot control, and roller-follower wear limits compared to API CH-4, CG-4. The product also provides enhanced protection at higher than normal operating conditions and reduces friction during cold weather start-up.

Synthetic Blend HD 15W-40 Plus complies with the following requirements:

API Current Service Classifications CF, CF-4, CG-4, CH-4, CI-4, CI-4 PLUS/SM and obsolete API Classifications CD, CD-II, CE; U.S. Department of Defense Specification MIL-L-46152E (Obsolete) and MIL-L-2104F/A-A-52306A, Mack EO-K/2, EO-L, EO-M, EO-M PLUS, EO-N, EO-N Premium PLUS, EO-N Premium PLUS '03; Caterpillar TO-2, ECF-1; and Ford M2C144-A & M2C 153-E. The product is suitable for use in engines manufactured by Cummins and Detroit Diesel DDC-1 & 2 or other units when there is a preference for multigrade motor oils. Meets requirements specified under Volvo VDS 3, VDS 2, VDS; and MTU (Cat. 1 & 2). For gasoline engines, Synthetic Blend HD 15W-40 Plus is classified API SH, SJ, SL, and SM. Suitable for use where Allison C-4 performance is specified.

APPLICATIONS

Recommended for all major automotive diesel and mixed fleet (diesel/four-cycle gasoline engines) operations in all service and under all operating conditions where the equipment owner specifies the additional performance benefits of multigrade oils for both newer and older engines, including newer diesel engines with EGR systems.