

SPECIAL HD 15W-40 MULTIGRADE HEAVY-DUTY MOTOR OIL

[Meeting API Service Levels CF-4, CG-4, CH-4, CI-4, CI-4 PLUS, CJ-4/SM]

	<u>Typical Properties</u>
SAE Grade, Automotive	15W-40
Viscosity, cSt	
At 40° C	115
At 100° C	15.0
Viscosity Index	135
Viscosity, CCS, D-5293, -20°C/cP	6000
Flash Point, (COC), °C/°F	210/410
Pour Point, °C/°F	-30/-22
Sulfated Ash, %wt	1.0
Neutralization No., TBN-E	9.3
HTHS, Vis/cP, D-4683	3.9
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.

Special HD 15W-40 Multigrade, API CJ-4, is the most current formulated heavy duty motor oil for all-season use in highway commercial diesel engines, including EGR equipped engine emission controlled systems. The product is manufactured from selected premium quality base stocks with additive technology to provide engine protection for 2007 EPA exhaust particulate emissions standards using Ultra-Low Sulfur Diesel (ULSD). It meets performance requirements for all naturally aspirated, turbocharged and supercharged, diesel engines as well as all four-cycle gasoline engines. The product reflects API CI-4 Plus test improvements in reducing aeration, better oxidation stability, enhanced soot control, and advanced wear protection.

Suitable for use in engines manufactured by Mack, Caterpillar, Cummins, and Detroit Diesel when there is a preference for multigrade motor oils and where fuel sulfur levels are below 500 ppm (parts per million-wt). Special HD 15W-40 meets API current service classifications CF, CF-4, CG-4, CH-4, CI-4, CI-4 Plus, and CJ-4, Mack EO-0 Premium Plus '07, Caterpillar ECF-1, ECF-3, Cummins CES 200801, and Detroit Diesel 92K218. For gasoline engines, Special HD 15W-40 is classified API SH, SJ, SL, and SM.

APPLICATIONS

Recommended for all major diesel and mixed fleet (diesel/four-cycle gasoline) engine operations in all service and under all operating conditions where the equipment owner specifies the additional performance benefits of multigrade oils. This product is preferable for newer diesel engines with EGR systems and those equipped with Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC) technologies.