



Performance 500 Heavy Duty Engine Oil 15W40 CJ-4/SM & SAE 30W, 40W, 50W (CF/CF-2 only)

BENEFITS

- Excellent anti-wear protection and extreme soot control
- Enhanced oxidation control & withstand thermal breakdown
- Low oil consumption
- Cleaner engine, maximum performance and less maintenance
- Excellent emission after-treatment system life
- Specifically formulated for 2007MY low emission engines & fully compatible with previous engine models

FEATURES

Performance 500 Heavy Duty Engine Oils 15W-40 meets API Service Categories API CJ-4 and is recommended for diesel engines in on and off highway use. Grades 30W, 40W and 50W meet or exceed CF/CF-2. Performance 500 Heavy Duty Engine Oils are formulated using premium Group II base stocks, and the latest advanced additive packages containing specially balanced amount of dispersant, detergent, antioxidants, anti-wear and corrosion inhibitors to provide a smoother running engine and extending the life of your engine. Our 15W-40 CJ-4/SM meets the requirements of EPA 2007 and 2010 compliant engines equipped with emission control technologies including Diesel Particulates Filter (DPF), Exhaust Gas Recirculation (EGR) and Selective Catalytic Converter (SCR). Performance 500 meets:

- API CJ-4/SM, CI-4 Plus, CI-4, CH-4
- ACEA E9-08, E7-04 Issue 2
- Caterpillar ECF-3, ECF-2
- Cummins CES 20081
- Mack EO-O Premium Plus
- Volvo VDS-4
- DDC Power Guard 93K218
- Daimler Benz MB228.31
- MAN 3575
- MTU Type 2.1
- Renault Truck RLD-3
- Deutz DQC III-05

Our formulation creates a high viscosity index for Performance 500 Heavy Duty Engine Oils, which guarantees low viscosities at low temperatures for easy cold starting, steady warm up, and maintains viscosity at high temperatures for improved oil economy, fuel economy, and having the right film thickness for the protection your engine deserves.

APPLICATIONS

Performance 500 Heavy Duty 15W-40 is recommended for all four-stroke diesel engines designed to meet 2010 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. Suitable for supercharging, turbocharged, four valve heads, shorter piston crowns, inter-cooling, and electronic fuel and emission systems. Recommended for use in any mixed fleet covering both on or off-road needs.

TYPICAL TEST DATA

Test	ASTM	Unit	15W-40	SAE 30W	SAE 40W	SAE 50W
Viscosity, Cold Crank	D5293	C/Poise	-20/60	-	-	-
Viscosity @ 40 C	D445	cSt	115.3	98.0	110	190
Viscosity @ 100 C	D445	cSt	15.0	11.0	13.0	17.0
Viscosity Index	-	-	138	96.0	113	95
Pour point	D7346	C	-36	-30	-30	-20
Flash Point	D92	C	232	210	220	230
Base Number	D2896	mgKOH/g	10.0	7.4	7.4	7.4
Zinc Wt%	-	Wt%	.13	.13	.13	.13
Sulfated Ash	D874	Wt%	0.95	1.06	1.08	1.08
API Gravity	D4052	-	30.0	28.5	28.0	27.8

Note: Typical test data are averages only, minor variations which do not affect the products ability to perform are to be expected.

*Conforms, meets, and in many cases exceeds industry standards.

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