



Product Data Sheet

Dakota Heavy Duty 15W-40 CJ-4 High Performance Diesel Engine Oil

PRODUCT DESCRIPTION

Dakota Heavy Duty 15W-40 CJ-4 is designed for high-speed, four-stroke engines and is also designed to meet 2007 model year on-highway exhaust emission standards. This oil is effective at sustaining emission control system durability where particulate filters and other advanced after-treatment systems are used. Optimum protection is provided for control of catalyst poisoning, particulate filter blocking, foaming, oxidative thickening and viscosity loss due to shear. When using CJ-4 oil with higher than 15 ppm sulfur fuel, consult the engine manufacturer for service interval.

Dakota Heavy Duty 15W-40 CJ-4 meets or exceeds the demands of API service classification CJ-4/CI-4 Plus/CI-4/CH-4/SM. It meets the requirements of Mack EO-O Premium Plus, VOLVO VDS-4, CAT ECF-3, Detroit Diesel 93K218, MTU Oil Category 2.1, and Cummins CES 20081.

APPLICATIONS

Recommended for use in:

- Recommended for use in high performance diesel applications including low emission engines designs, including those featuring EGR technology
- Recommended for use in high performance gasoline engines and mixed fleet operators

SPECIFICATIONS AND APPROVALS

Dakota Heavy Duty 15W-40 CJ-4 has the following builder approvals:	15W-40
Mack EO-O Premium Plus	X
Volvo VDS-4	X
Detroit Diesel Power Guard Oil Specification 93K218, 93K214	X
MTU Oil Category 2.1	X

Dakota Heavy Duty 15W-40 CJ-4 meets or exceeds the requirements of the following industry and builder specifications:	15W-40
API CJ-4, CI-4 PLUS, CI-4, CH-4, SM	X
Caterpillar ECF-3, ECF-2	X
Cummins CES 20081	X



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TYPICAL PROPERTIES

Dakota Heavy Duty 15W-40 CJ-4	
SAE Grade	15W-40
Viscosity, ASTM D 445	
cSt @ 40°C	109
cSt @ 100°C	14.5
CCS, cP, ASTM D 5293	6600 @ -20°C
MRV, cP, ASTM D 4684	23700 @ -25°C
Viscosity Index, ASTM D 2270	132
Sulfated Ash, wt%, ASTM D 874	1.0
Total Base #, mg KOH/g, ASTM D 2896	10
Pour Point, °C, ASTM D 97	-30
Flash Point, °F, ASTM D 92	>400

HEALTH AND SAFETY INFORMATION

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet.