Mobil Delvac 1™ 5W-40

Mobil Commercial Vehicle Lube , United States

High Performance Heavy Duty Diesel Engine Oil

Product Description

Mobil Delvac 1 5W-40 is a fully synthetic high performance heavy duty diesel engine oil that helps towards long engine life while providing long drain capability for modern diesel engines operating in severe applications. Mobil Delvac 1 5W-40 delivers excellent performance in modern low emission engines, including refrigerated units, as well as older, well-maintained engines. Mobil Delvac 1 5W-40 is recommended for use in a wide range of heavy-duty applications and operating environments found in the on-road transport and off-road mining, construction, and agricultural industries. Mobil Delvac 1 also meets the requirements of the API SL specification for gasoline engines used in mixed fleets.

The excellent performance of Mobil Delvac 1 5W-40 is the result of extensive cooperative development work with major equipment builders and application of advanced lubrication technology. As a result, this product meets or exceeds the requirements of some of the latest API, ACEA, JASO, and Global industry specifications for diesel engine oils, as well as the requirements of many major American, European, and Japanese engine manufacturers.

Features and Benefits

Many modern, low emission diesel engines generate more soot and operate at higher temperatures than older engines. This significantly increases the need for high performance lubricants. Current tighter engine designs reduce oil consumption, resulting in less fresh oil makeup to replenish depleted additives. Top piston rings are located higher, bringing the oil film closer to the combustion chamber and exposing the lubricant to severe thermal stresses. Mobil Delvac 1 5W-40 maintains outstanding performance at high temperatures. It is also fully compatible with conventional oils. The key benefits include:

1 Relative to conventional 15W-40 engine oil. Actual fuel economy improvement is dependent on vehicle/equipment type, outside temperature, driving conditions and your current fluid viscosity

Features	Advantages and Potential Benefits
Meets or exceeds demanding specifications of major OEMs	One engine oil for mixed fleet operations
Outstanding thermal and oxidation stability	Control of low temperature sludge build-up and high temperature deposits
Low volatility, excellent wear and bore polish control	Good oil consumption control
Expertly formulated low viscosity formulation	Fuel economy potential(1)
Exceptional low temperature pumpability	Easier engine start-up and reduced wear
Good resistance to corrosion	Helps towards long life of critical wear surfaces
Long drain capability	Help towards operational efficiency andoverall cost control
Component compatibility	Long gasket and seal life, extended service intervals

Applications

Mobil Delvac 1 5W-40 is recommended for use in super high performance diesel applications, including modern low emission engine designs with Exhaust Gas Recirculation (EGR). These applications include the following:

- On-highway engines operating in both high speed/high load and stop-and-go conditions
- Off-highway engines operating in severe low speed/heavy load conditions
- Virtually all diesel powered equipment from American, European, and Japanese equipment builders

- Refrigeration units

Specifications and Approvals

This product has the following approvals:
Detroit Fluids Specification 93K214
MB-Approval 228.5
VOLVO VDS-2

This product is recommended for use in applications requiring:
API CG-4
API CF-4
API CF
CATERPILLAR ECF-1-a
Cummins CES 20072
Cummins CES 20071
CUMMINS CES 20075

This product meets or exceeds the requirements of:
API CI-4 PLUS
API CI-4
API CH-4
API SL
API SJ
Cummins CES 20078
Cummins CES 20077
Cummins CES 20076
Ford WSS-M2C171-D
GLOBAL DHD-1
RENAULT TRUCKS RXD
ACEA E4
ACEA E7

This product meets or exceeds the requirements of:
VOLVO VDS-3
RENAULT TRUCKS RLD-2
Mack EO-N

Properties and Specifications

Property	
Grade	SAE 5W-40
Ash, Sulfated, mass%, ASTM D874	1.35
Density @ 15 C, kg/l, ASTM D4052	0.854
Flash Point, Cleveland Open Cup, °C, ASTM D92	226
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	14.8
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	102
Pour Point, °C, ASTM D97	-45
Total Base Number, mgKOH/g, ASTM D2896	12
Viscosity Index, ASTM D2270	151

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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