

Mobil Delvac 1 5W-40

Supreme Performance Heavy Duty Diesel Engine Oil

Product Description

Mobil Delvac 1 5W-40 is a fully synthetic supreme performance heavy duty diesel engine oil that helps extend engine life while providing long drain capability and fuel economy for modern diesel engines operating in severe applications. Mobil Delvac 1 utilizes state-of-the-art technology to deliver exceptional 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 API SL specification for gasoline engines used in mixed fleets.

The unequalled performance of Mobil Delvac 1 5W-40 is the result of extensive cooperative development work with major equipment builders and application of the latest lubrication technology. As a result, this product meets or exceeds the latest API, ACEA, JASO, and Global industry specifications for diesel engine oils, as well as the requirements of virtually all 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 supreme 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 significantly higher temperatures than other high performance diesel engine oils. It is also fully compatible with conventional oils. The key benefits include:

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	Reduced low temperature sludge build-up and high temperature deposits
Enhanced film strength at high temperatures	Reduced engine scuffing and bore polishing
Inherent stay-in-grade shear stability	Wear protection and reduced oil consumption; maintains viscosity in severe, high temperature service
Advanced formulation and viscometrics	Improved fuel economy
Low volatility	Reduced oil consumption
Exceptional low temperature pumpability	Easier engine start-up and reduced wear
Enhanced TBN quality reserve	Deposit control and extended drain capability
Outstanding resistance to corrosion	Extended life of critical wear surfaces
Long drain capability	Increased operating efficiency and lower overall cost
Component compatibility	Longer gasket and seal life, extended service intervals



Applications

Mobil Delvac 1 5W-40 is recommended for use in all 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
- High performance gasoline engines and mixed fleets
- Refrigeration units

Specifications and Approvals

Mobil Delvac 1 Meets or Exceeds the following industry and builder specifications:	5W-40
API CI-4 PLUS/CI-4/CH-4/CG-4/CF/SL/SJ	X
ACEA E7/E5/E4/E3	X
Caterpillar ECF-1	X
Cummins CES 20072/20071	X
Detroit Diesel Power Guard Oil Specification	X
Ford WSS-M2C171-D	X
Global DHD-1	X
JASO DH-1	X
Mobil Delvac 1 5W-40 has the following builder approvals:	5W-40
Cummins CES 20078/20077/20076/20075	X
Mack EO-N Premium Plus 03, EO-M Plus	X
Mercedes Benz 228.5	X
Volvo VDS-3, VDS-2	X
Mobil Delvac 1 5W-40 also recommended for use in applications requiring:	5W-40
Renault RVI RXD	X

Typical Properties

Mobil Delvac 1 5W-40	
SAE Grade	5W-40
Viscosity, ASTM D 445	
cSt @ 40°C	102
cSt @ 100°C	14.8
Viscosity Index, ASTM D 2270	151
Sulfated Ash, wt%, ASTM D 874	1.35

Mobil Delvac 1 5W-40

Total Base #, mg KOH/g, ASTM D 2896	12
Pour Point, °C, ASTM D 97	-45
Flash Point, °C, ASTM D 92	226
Density @ 15°C kg/l, ASTM D 4052	0.854

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

The Mobil logotype, the Pegasus design, and Delvac 1 are trademarks of Exxon Mobil Corporation, or one of its subsidiaries.