



Mobil Delvac 1 5W-40

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:

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 and overall cost control
Component compatibility	Long gasket and seal life, extended service intervals

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

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

Mobil Delvac 1 meets or exceeds the requirements of:	5W-40
API CI-4 PLUS/CI-4/CH-4/SL/SJ	X
ACEA E7/E4	X
Cummins CES 20078/20077/20076/20075	X
Ford WSS-M2C171-D	X
Renault Trucks RXD	X
Global DHD-1	X
JASO DH-1	X

Mobil Delvac 1 5W-40 has the following builder approvals:	5W-40
Detroit Diesel Power Guard Oil Specification 93K214	X
Mack EO-N Premium Plus 03, EO-M Plus	X
MB-Approval 235.28	X
MB-Approval 228.5	X
Scania LDF	X
Voith Retarder Oil Class B	X
Volvo VDS-3, VDS-2	X

Mobil Delvac 1 5W-40 is recommended by ExxonMobil for use in applications requiring:	5W-40
API CG-4/CF-4/CF	X
Caterpillar ECF-1-a	X
Cummins CES 20072/20071	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
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.

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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