

# Mobil Delvac 1 5W-40

## Supreme Performance Diesel Engine Oil

### Product Description

Mobil Delvac 1 5W-40 is a supreme performance, synthetic diesel engine oil that provides unsurpassed lubrication including better fuel economy, long drain capability, and extended engine life for today's diesel engines operating in severe applications. The state-of-the-art technology behind this product delivers exceptional performance in modern high output, 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 trucking, mining, construction, and agricultural industries. It is also suitable for gasoline service in mixed diesel/gasoline fleets.

The unsurpassed performance capabilities of Mobil Delvac 1 5W-40 are the result of extensive cooperative development work with major equipment builders combined with the latest engine lubrication engineering. As a result, this product meets or exceeds the most current API, ACEA, JASO, and global diesel engine oil industry specifications and those of virtually all major American, European, and Japanese engine manufacturers as well.

Mobil Delvac 1 5W-40 has all the advantages of an SAE 40 weight oil without the higher oil consumption inherent in multigrade oils that use very light base stocks to achieve low temperature performance. Because of the unique molecular structure of the advanced base stocks used, combined with a highly responsive additive system, Mobil Delvac 1 5W-40 is not as volatile in the high temperature ring-belt area of the pistons of turbocharged engines, provides stronger lubrication film strength at higher temperatures, and low temperature performance reducing oil consumption and wear while improving fuel economy.

### Features & Benefits

Modern high output, low emission diesel engines generate higher levels of soot and run hotter than older naturally aspirated engines which significantly increases the demands on engine 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 where temperatures increase thermal stress on the lubricant. Higher fuel injector pressure and retarded timing improve control of exhaust emissions, but also increase engine temperatures and increase soot loads in engines operating with exhaust gas recirculation. Mobil Delvac 1 5W-40 can provide satisfactory lubrication at temperatures significantly higher than the upper limit for other extra high performance diesel engine oils. It is also fully compatible with conventional oils. The key benefits include:

Features	Advantages and Potential Benefits
Optimum thermal and oxidation stability	Reduced low temperature sludge build-up and high temperature varnish deposits
Enhanced TBN Quality Reserve	Deposit control and extended drain intervals
Inherent stay-in-grade shear stability	Wear protection and reduced oil consumption
Advanced formulation and viscometrics	Maintains viscosity in severe, high temperature service
Enhanced high temperature/high shear performance	Improved fuel economy
Exceptional low temperature pumpability	Reduced engine scuffing and bore polishing
	Easier engine start-up and reduced wear

ExxonMobil Lubricants & Specialties

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Features	Advantages and Potential Benefits
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
Meets or exceeds demanding specifications of key OEMs	One engine oil for mixed fleet operations
Low volatility	Reduced oil consumption

## Applications

- Mobil Delvac 1 5W-40 is recommended for use in all super high performance diesel applications with the latest turbo-charged, low emission engines designs including Exhaust Gas Recirculation (EGR)
- These applications include: on-highway engines operating in both high speed/high load and short haul pick-up/delivery; off-highway engines operating in severe low speed/heavy load conditions; high performance gasoline engines; mixed fleets
- Diesel powered equipment from American, European, and Japanese equipment builders
- Refrigeration units

## Specifications & Approvals

### Mobil Delvac 1 5W-40 meets or exceeds the following industry and builder specifications:

API CI-4/CH-4/CG-4/CF-4/CF/SL/SJ

ACEA E5/E4/E3

JASO DH-1

Global DHD-1

Detroit Diesel (4-stroke) DDC 7SE270

### Mobil Delvac 1 5W-40 has the following builder approvals:

Mack EO-M, EO-M Plus, EO-N Premium Plus

Cummins CES 20078/77/76/75

Volvo VDS-3, VDS-2

### Mobil Delvac 1 5W-40 is recommended for use in applications requiring:

Cummins CES 20072/71

Renault RVI RXD



## Typical Properties

<b>Mobil Delvac 1 5W-40</b>	
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 & 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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