



## Mobil Delvac 1™ 5W-40

Mobil Commercial Vehicle Lube , Malaysia

Advanced Full Synthetic 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 demanding specifications of major OEMs.

### 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 <sup>1</sup>
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

<sup>1</sup>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 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

- Refrigeration units

### Specifications and Approvals

#### This product has the following approvals:

Detroit Fluids Specification 93K214

Mack EO-N

Mack EO-N Premium Plus 03

MB-Approval 228.5

RENAULT TRUCKS RLD-2

VOLVO VDS-2

VOLVO VDS-3

#### This product is recommended for use in applications requiring:

ACEA E3

ACEA E5

API CF

API CF-4

API CG-4

Caterpillar ECF-1-a

Cummins CES 20071

Cummins CES 20072

CUMMINS CES 20075

Detroit 7SE 270 (4-STROKE CYCLE)

Mack EO-M

Mack EO-N Premium Plus

#### This product meets or exceeds the requirements of:

API CH-4

API CI-4

API CI-4 PLUS

API SJ

<b>This product meets or exceeds the requirements of:</b>
API SL
ACEA E4-16
ACEA E7-16
CUMMINS CES 20076
Cummins CES 20077
Cummins CES 20078
Ford WSS-M2C171-D
GLOBAL DHD-1
ISUZU DEO (w/o DPD Equipped Vehicles)
RENAULT TRUCKS RXD

#### Properties and Specifications

<b>Property</b>	
Grade	SAE 5W-40
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	14.8
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	102
Total Base Number, mgKOH/g, ASTM D4739	12
Ash, Sulfated, mass%, ASTM D874	1.4
Flash Point, Cleveland Open Cup, °C, ASTM D92	226
Viscosity Index, ASTM D2270	151
Pour Point, °C, ASTM D97	-45
Specific Gravity, 15.6 C/15.6 C, ASTM D4052	0.854

#### 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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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](http://www.exxonmobil.com)

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