



Mobil Delvac 1™ ESP 5W-40  
Mobil Commercial Vehicle Lube, United States

Advanced Full Synthetic Heavy Duty Diesel Engine Oil

Product Description

Mobil Delvac 1™ ESP 5W-40 is an advanced synthetic heavy duty diesel engine oil that helps extend engine life while providing long drain capability and potential fuel economy for modern diesel engines operating in severe applications. This product is formulated to deliver exceptional performance in modern and older hard working engines, including those with emission control systems. Mobil Delvac 1 ESP 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, forestry, construction, and agricultural industries.

The outstanding performance of Mobil Delvac 1 ESP 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 requirements of the latest API and ACEA industry specifications for diesel engine oils, as well as the requirements of many major American, and European engine manufacturers.

Features and Benefits

Mobil Delvac 1 ESP 5W-40 maintains outstanding performance at significantly higher temperatures than other high performance diesel engine oils. It also delivers exceptional low temperature fluidity and pumpability at low temperatures for smooth starting in cold down to -35°C.

Mobil Delvac 1 ESP 5W-40 is formulated with advanced synthetic basestocks to help improve fuel economy<sup>1</sup>.

Features	Advantages and Potential Benefits
Meets or exceeds demanding specifications of major OEMs	One engine oil for mixed diesel 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	Easy 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	Long gasket and seal life, extended service intervals
Low ash formulation meeting API CK-4 and CJ-4 requirements	Long emissions aftertreatment (DPF, DOC and SCR) life

<sup>1</sup>Compared to an SAE 15W-40 engine oil. Actual savings are dependent on vehicle engine type, outside temperature, driving conditions, and your current engine oil viscosity.

## Applications

Mobil Delvac 1 ESP 5W-40 is recommended for use in all super high performance diesel applications, including modern low emission engine designs with Exhaust Gas Recirculation (EGR), Aftertreatment systems with Diesel Particulate Filters (DPF's) and Diesel Oxidation Catalysts (DOC's). 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 and European equipment builders
- High performance gasoline engines and mixed fleets
- Refrigeration units

## Specifications and Approvals

<b>Mobil Delvac 1 ESP meets or Exceeds the requirements of:</b>	<b>5W-40</b>
API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4	X
ACEA E9, E7	X
Caterpillar ECF-3	X

Cummins CES 20081	X
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<b>Mobil Delvac 1 ESP is approved by the following OEMs:</b>	<b>5W-40</b>
Detroit Fluids Specification 93K218	X
Mack EO-O Premium Plus	X
MAN M 3575	X
MB-Approval 228.31	X
MTU Oil Category 2.1	X
Volvo VDS-4	X

## Typical Properties

<b>Mobil Delvac 1 ESP</b>	
SAE Grade	5W-40
Viscosity, ASTM D 445	
cSt @ 40°C	81.1
cSt @ 100°C	13.56
Viscosity Index, ASTM D 2270	170
Density @ 15.6°C kg/L, ASTM D 4052	0.857
Pour Point, °C, ASTM D 97	-33
Flash Point, °C, ASTM D 92	222
Sulfated Ash, wt%, ASTM D 874	1
Total Base Number, mg KOH/g, ASTM D 2896	12.1
CCS, cP, ASTM D 5293	6330 @ -30C
MRV, cP, ASTM D 4684	22000 @-35C
HTHS @ 150°C, cP, ASTM D4683	3.7

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

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