



Mobil Delvac 1™ ESP 5W-40

Mobil Commercial Vehicle Lube, United States

HIGH PERFORMANCE ADVANCED SYNTHETIC FORMULA LOW ASH 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 economy² for modern and latest diesel engine technology 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 of ExxonMobil 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 is an outstanding lubricant solution for modern and latest engine technology equipped with emission after-treatment. It was developed by ExxonMobil to maintain unsurpassed oxidation stability³ while also delivering exceptional low temperature fluidity and pumpability for smooth starting in cold down to -35°C. This feature, in combination with the sophisticated additive system, ensures exceptional engine wear performance and supports long engine life. The low ash formulation protects at the same time all exhaust after-treatment devices to maintain cleaner air requirements. The advanced engine cleanliness performance prevents deposits and keeps the engine running like new for long and efficient engine life.

The key benefits of Mobil Delvac 1™ ESP 5W-40 include:

Features	Advantages and Potential Benefits
Excellent low temperature pumpability	Reliable engine start and wear protection at low temperatures
Step out wear protection	Reduced engine wear to promote long engine life
Unsurpassed oxidation stability ³	Long oil drain intervals and prevention of deposits
Superb resistance to corrosion	Protection of critical engine surfaces in humid environments

Applications ¹

Recommended by ExxonMobil for use in:

- Most engine generations up to latest and most sophisticated high performance diesel engines with turbo-charger, direct injection and low emission designs, featuring all types of exhaust after-treatment technology
- 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
- Most diesel powered equipment from American and European equipment builders
- High performance gasoline engines and mixed fleets

Refrigeration units

¹ Please refer to the owners handbook for OEM application requirements and oil drain intervals for your vehicle or equipment.

² 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.

³ Based on PC-11 industry test data.

Specifications and Approvals

Mobil Delvac 1™ ESP 5W-40 meets or exceeds the requirements of the following industry and builder specifications:
ACEA E9-2016, E7-2016
API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, SM, SN
Caterpillar ECF-3
Cummins CES 20086, 20081
JASO DH-2

Mobil Delvac 1™ ESP 5W-40 has the following builder approvals:
Detroit Fluids Specification 93K222, 93K218
Mack EOS-4.5
Renault Trucks RLD-4
Volvo VDS-4.5, VDS-4
MTU Oil Category 2.1

Typical Properties

Mobil Delvac 1™ ESP 5W-40	
SAE Grade	5W-40
Viscosity, ASTM D 445	
cSt @ 40°C	84
cSt @ 100°C	13.8
CCS, cP, ASTM D 5293	6510 @ -30°C
MRV, cP, ASTM D 4684	16,800 @ -35°C
HTHS @ 150°C, cP, ASTM D4683	3.8
Viscosity Index, ASTM D 2270	150
Sulfated Ash, wt%, ASTM D 874	1
Total Base Number, mg KOH/g, ASTM D 2896	12

Mobil Delvac 1™ ESP 5W-40	
Pour Point, °C, ASTM D 97	-48 °C
Flash Point, °C, ASTM D 92	233
Density @ 15°C kg/l, ASTM D 4052	0.853

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. MSDSs are available upon request through your sales contact 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

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