Mobil

Mobil Delvac 1™ ESP 5W-40

Mobil Commercial Vehicle Lube , New Zealand

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[1] and potential fuel economy[2] 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.

[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.

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 stability[3] 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.

[3] Based on PC-11 industry test data.

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

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

Specifications and Approvals

This product has the following approvals:
Cummins CES 20081
Cummins CES 20086
Detroit Fluids Specification 93K218
Detroit Detroit Fluids Specification 93K222
DTFR 15C100

This product meets or exceeds the requirements of:
API CK-4
API CJ-4
API CI-4 PLUS
API CI-4
API CH-4
API SM
API SN
JASO DH-2
Caterpillar ECF-3
ACEA E7
ACEA E11-22

Properties and Specifications

Property	
Grade	SAE 5W-40
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	84
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	13.8
Cold-Cranking Simulator, Apparent Viscosity @ -30 C, mPa.s, ASTM D5293	6510

Property	
Mini-Rotary Viscometer, Apparent Viscosity, -35 C, mPa.s, ASTM D4684	16800
Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D4683	3.8
Viscosity Index, ASTM D2270	169
Ash, Sulfated, mass%, ASTM D874	1
Total Base Number, mgKOH/g, ASTM D2896	12
Pour Point, °C, ASTM D97	-48
Flash Point, Cleveland Open Cup, °C, ASTM D92	233
Density, 15.6C, g/cm3, ASTM D4052	0.852

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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11-2026
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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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