



Mobil Delvac 1™ ESP 0W-40

Mobil Commercial-Vehicle-Lube , United States

HIGH PERFORMANCE ADVANCED SYNTHETIC FORMULA LOW ASH DIESEL ENGINE OIL

Product Description

Mobil Delvac 1™ ESP 0W-40 is a synthetic heavy duty diesel engine oil that was designed to protect modern diesel engines operating in severe on- and off-highway application.

This high performance engine oil meets the API CK-4 specification utilizing state-of-the-art lubricant technology to deliver exceptional performance in modern low emission engines, including those with Exhaust Gas Recirculation (EGR) and After Treatment systems with Diesel Particulate Filters (DPF's) and Diesel Oxidation Catalysts (DOC's). Mobil Delvac 1 ESP 0W-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. It can also be used in refrigeration units and older, well-maintained engines. Mobil Delvac 1 ESP 0W-40 also meets the API SN specification for gasoline engines.

Features and Benefits

Mobil Delvac 1™ ESP 0W-40 is an outstanding lubricant solution for modern and latest engine technology equipped with emission after-treatment devices. It was developed by ExxonMobil to provide exceptional wear protection in severe applications and over a broad range of temperatures. The unique formulation offers the capability to ensure proper oil flow rate at very low temperatures down to – 45°C but also provides robust oil film strength when exposed to thermal stress due to modern, high power output engine operation and high vehicle load. 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 parts required to meet emissions regulations while unsurpassed oxidation stability¹ supports longer oil drain intervals and therefore reduced maintenance cost and vehicle downtime.

¹ 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 thermal and oxidation stability	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 EGR, DPF or exhaust catalyst technology
- On-highway heavy duty trucking and off-highway including: construction, mining, quarrying, and agriculture
- On-highway applications operating in both high speed/high load and short haul pick-up/delivery
- Off-highway applications operating in severe low speed/heavy load conditions
- Modern marine high-speed diesel engines, including Caterpillar, Cummins, Volvo and others.
- High performance gasoline engines and mixed fleet operators
- Diesel-powered equipment from many global OEMs

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

Specifications and Approvals

This product has the following approvals:
Cummins CES 20081
Cummins CES 20086

This product meets or exceeds the requirements of the following industry and builder specifications:
API CJ-4
API CI-4
API CI-4 PLUS
API CH-4
API SM
Caterpillar ECF-3
Ford WSS-M2C171-F1
API CK-4
API SN

Properties and Specifications

Property	
Grade	SAE 0W-40
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	90
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	14.6
Cold-Cranking Simulator, Apparent Viscosity @ -35 C, mPa.s, ASTM D5293	5990
Mini-Rotary Viscometer, Apparent Viscosity, -40 C, mPa.s, ASTM D4684	21200
Hi-Temp Hi-Shear Viscosity @ 150 C 1x10 ⁽⁶⁾ sec ⁽⁻¹⁾ , mPa.s, ASTM D4683	4.1
Viscosity Index, ASTM D2270	176
Ash, Sulfated, mass%, ASTM D874	0.99

Property	
Total Base Number, mgKOH/g, ASTM D2896	11
Pour Point, °C, ASTM D97	-48
Flash Point, Cleveland Open Cup, °C, ASTM D92	240
Density @ 15 C, kg/l, ASTM D4052	0.879

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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Exxon Mobil Corporation

22777 Springwoods Village Parkway

Spring TX 77389

1-800-ASK MOBIL (275-6624)

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