



Mobil Delvac 1™ ESP 5W-30

Mobil Commercial Vehicle Lube , Pacific Islands

Fully Synthetic Heavy-Duty Diesel Engine Oil

Product Description

Mobil Delvac 1™ ESP 5W-30 is an advanced synthetic heavy duty diesel engine oil for long and reliable service. The development of this product summarizes more than 90 years of ExxonMobil's research and development knowledge. The goal was to define a product that addresses all features required with modern on-highway applications, including those with emission control systems¹. This top performance product offers unsurpassed oxidation stability³ which results in engine cleanliness promoting efficient and smooth engine operation. The robustness of Mobil Delvac 1™ ESP 5W-30 meets or exceeds the longest oil drain intervals defined by global manufacturers, offering protection during extended oil drains up to 100,000 miles or 160,000km¹, as demonstrated in field trials conducted in US using ultra-low sulphur diesel, American vehicles and on-highway driving conditions. It was also developed and tested to protect the engine with the use of biofuel components. The advanced lubricant formulation helps to gain fuel economy benefits in modern engine applications². The outstanding wear protection performance of Mobil Delvac 1 ESP 5W-30 is the result of extensive and close cooperative development work of ExxonMobil with major equipment builders. 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-30 is an outstanding lubricant solution for modern and latest engine technology equipped with emission After-Treatment devices. It was developed by ExxonMobil to maintain unsurpassed oxidation stability³ performance to meet long oil drain intervals and support low maintenance efforts. Mobil Delvac 1™ ESP 5W-30 keeps at the same time critical and hot engine parts clean, also while bio diesel fuel components are used, for long and efficient engine life. This feature combination with the sophisticated additive system, ensures exceptional engine wear performance and supports long engine life. The low ash formulation protects same time all exhaust after-treatment parts required to meet emissions regulations.

Features	Advantages and Potential Benefits
Extended drain interval capability, up to 100,000 miles, or 160,000km ¹	Fewer oil changes and less oil disposal
Enhanced fuel economy potential of up to 2.6% ²	Reduced fuel consumption, saving operating cost
Unsurpassed thermal and oxidation stability Oxidation stability is 2 times vs API CK-4 standard ³	Prevention of deposits and smooth engine operation
Step out wear protection, achieving 40% more wear protection versus API CK-4 standard ⁴	Reduce engine wear to promote long engine life
Bio fuel compatible	Maintains engine cleanliness and protection with bio fuel components
Emission system protection	Emissions system durability and performance

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 various types of exhaust after-treatment technology
- Heavy duty diesel engines using low sulfur diesel fuels and many biodiesel fuel formulations
- Naturally aspirated and turbo-charged diesel powered equipment
- On-highway short-haul and long-haul trucks and buses
- Off-highway equipment

¹ Results may vary based on fuel quality, vehicle/engine condition, driving and environmental conditions. Please consult OEM or ExxonMobil before implementing extended ODI's

² Based on fuel economy evaluation conducted on test track at Millbrook Proving Ground, Ltd in United Kingdom, compared to mineral 15W-40 engine oil for city

condition. 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, and on measured viscosity increase in the Volvo T-13 engine test

⁴ Based on Cummins ISM and Mack T-12 engine tests

Specifications and Approvals

This product meets or exceeds the requirements of:
ACEA E7
ACEA E9
ACEA E6
API CK-4
API CJ-4
API CI-4 PLUS
API SN
API SM
JASO DH-2
DAF Extended Drain
CATERPILLAR ECF-3

Properties and Specifications

Property	
Grade	SAE 5W-30
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	12
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	73
Cold-Cranking Simulator, Apparent Viscosity @ -30 C, mPa.s, ASTM D5293	6400
Mini-Rotary Viscometer, Apparent Viscosity, -35 C, mPa.s, ASTM D4684	19700
Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D4683	3.6
Viscosity Index, ASTM D2270	160
Ash, Sulfated, mass%, ASTM D874	0.95
Total Base Number, mgKOH/g, ASTM D2896	11
Pour Point, °C, ASTM D97	-42
Flash Point, Cleveland Open Cup, °C, ASTM D92	241
Density @ 15 C, g/ml, ASTM D1298	0.851

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.as>

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Mobil International Petroleum Corporation
Tour Cogimpa - 19 Avenue Foch,
BP 108, 98845 Noumea Cedex
Nouvelle Calédonie

+687 24 21 50

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect 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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