



## Mobil Delvac 1™ ESP 5W-30

Mobil Commercial Vehicle Lube , Taiwan

High Performance Advanced Synthetic Formula Low Ash 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 truck applications, including those with emission control systems<sup>1</sup>. This top performance product offers unsurpassed oxidation stability<sup>3</sup> 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 major global manufacturers, offering protection during extended oil drains up to 100,000 miles<sup>1</sup>. It was also developed and tested to protect the engine with the use of biofuel components to consider different diesel fuel qualities and future, sustainability related fuel components. The advanced lubricant formulation helps to gain fuel economy benefits in modern engine applications<sup>2</sup>. 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.

<sup>1</sup> Please refer to the owner's handbook for OEM application requirements and oil drain intervals for your vehicle or equipment.

<sup>2</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.

<sup>3</sup> Based on PC-11 industry test data.

### 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 stability 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, 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.

The key benefits of Mobil Delvac 1™ ESP 5W-30 include:

Features	Advantages and Potential Benefits
Unsurpassed thermal and oxidation stability	Prevention of deposits and smooth engine operation
Step out wear protection	Reduced engine wear to promote long engine life
Bio fuel compatible	Maintains engine cleanliness and protection with bio fuel components
Enhanced fuel economy potential	Reduced fuel consumption
Extended drain interval capability	Fewer oil changes and less oil disposal
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 all 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

## Specifications and Approvals

<b>This product meets or exceeds the requirements of:</b>
ACEA E6
ACEA E7
ACEA E9
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

<b>Property</b>	
Grade	SAE 5W-30
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	12
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	73
Cold-Cranking Simulator, Apparent Viscosity @ -30 C, mPa.s, ASTM D5293	6430
Mini-Rotary Viscometer, Apparent Viscosity, -35 C, mPa.s, ASTM D4684	19700
Hi-Temp Hi-Shear Viscosity @ 150 C 1x10 <sup>6</sup> sec <sup>-1</sup> , mPa.s, ASTM D4683	3.6
Viscosity Index, ASTM D2270	160
Ash, Sulfated, mass%, ASTM D874	1
Total Base Number, mgKOH/g, ASTM D2896	11

<b>Property</b>	
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.aspx>

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11-2020

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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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