



## Mobil Delvac 1™ ESP 5W-30

Mobil Commercial Vehicle Lube , Papua New Guinea

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 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 or 160,000km<sup>1</sup>, 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 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.

### 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<sup>3</sup> 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.

Features	Advantages and Potential Benefits
Extended drain interval capability, up to 100,000 miles, or 160,000km <sup>1</sup>	Fewer oil changes and less oil disposal
Enhanced fuel economy potential of up to 2.6% <sup>2</sup>	Reduced fuel consumption, saving operating cost
Unsurpassed thermal and oxidation stability Oxidation stability is 2 times vs API CK-4 standard <sup>3</sup>	Prevention of deposits and smooth engine operation
Step out wear protection, achieving 40% more wear protection versus API CK-4 standard <sup>4</sup>	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 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

<sup>1</sup> Results may vary based on fuel quality, vehicle/engine condition, driving and environmental conditions. Please consult OEM or ExxonMobil before implementing extended ODIs

<sup>2</sup> 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 driving condition. 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, and on measured viscosity increase in the Volvo T-13 engine test

<sup>4</sup> Based on Cummins ISM and Mack T-12 engine tests

#### Specifications and Approvals

<b>This product has the following approvals:</b>
Detroit Detroit Fluids Specification 93K222
MACK EOS-4.5
MAN M 3677
MAN M 3775
MB-Approval 228.51
MB-Approval 228.52
MTU Oil Category 3.1
RENAULT VI RLD-3
VOLVO VDS-4.5

<b>This product meets or exceeds the requirements of:</b>
API CI-4 PLUS
API CJ-4
API CK-4
API SM
API SN

**This product meets or exceeds the requirements of:**

JASO DH-2

ACEA E6

ACEA E7

ACEA E9

Caterpillar ECF-3

DAF Extended Drain

**Properties and Specifications**

Property	
Grade	SAE 5W-30
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	73.2
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	11.9
Total Base Number, mgKOH/g, ASTM D2896	11
Flash Point, Cleveland Open Cup, °C, ASTM D92	241
Viscosity Index, ASTM D2270	160
Ash, Sulfated, mass%, ASTM D874	0.95
Density @ 15 C, g/ml, ASTM D1298	0.851
Pour Point, °C, ASTM D97	-42

**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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