



Mobil Delvac XHP™ ESP 10W-40

Mobil Commercial Vehicle Lube , Austria

Emission System Protection Diesel Engine Oil

Product Description

Mobil Delvac XHP ESP 10W-40 is a synthetic extra high performance diesel engine oil engineered to provide lubrication to modern, high performance, low em engines used in severe applications. This engine oil is designed using high performance base oils which provide excellent low temperature fluidity, high tempe viscosity retention and volatility control. The new advanced additive system has been expertly engineered to help towards long engine life(1) and maintain the effi of emission reduction systems including the Diesel Particulate Filter (DPF). Its specifications and approvals allow Mobil Delvac XHP ESP 10W-40 to target mixe applications. Mobil Delvac XHP ESP 10W-40 is biodiesel compatible.(2)

(1) Well formulated oils, like Mobil Delvac, that meet or exceed industry or OEM specifications, can help protect engines. Consult OEM for optimum fluid selection. results may vary depending on OEM requirements, type of engine and its maintenance, application and service conditions, and prior lubricant used. (2) Follow recommendations on potential service adjustments

Features and Benefits

High output, low emission engines significantly increase demands on engine lubricants. Tighter engine design, use of inter-coolers, and turbochargers increase tl stresses on the lubricant. Low emission engine technologies such as higher fuel injection pressure, retarded timing and aftertreatment devices all require impro performance in areas such as oxidation stability, soot dispersancy, volatility and compatibility with aftertreatment devices. The advanced technology in Mobil Delva ESP 10W-40 delivers exceptional performance, long drain interval capability and protection of exhaust systems including those fitted with Diesel Particulate Filters The key benefits include:

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| Features                                                                                                       | Advantages and Potential Benefits                                                                          |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Outstanding protection against oil thickening, high temperature deposits, sludge build-up and, oil degradation | Provides capability for long drain intervals<br>Helps to protect against ring sticking                     |
| Excellent anti-wear, anti-scuff properties and bore polishing and corrosion protection.                        | Helps to towards long engine life <sup>1</sup>                                                             |
| Stay-in-grade shear stability. Very low volatility                                                             | Helps to reduce viscosity breakdown and oil consumption under heavy duty, temperature operating conditions |
| Low ash, sulfur and phosphorous levels                                                                         | Helps to protect exhaust systems devices like those fitted with DPF                                        |
| Excellent low temperature properties                                                                           | Helps to improve pumpability and oil circulation                                                           |

Applications

- Heavy Duty Diesel Engines including Euro V/VI Modern Low Emissions Vehicles, Utilizing Technologies such as Diesel Particulate Filter (DPF), Selective C Reduction (SCR), Continuously Regenerating Traps (CRT), Diesel Oxidation Catalysts (DOC) and Exhaust Gas Recirculation (EGR)
  - 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 Mining, Construction and Agricultural Equipment

(2) 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: |
|-------------------------------------------|
| MAN M 3775                                |
| MACK EOS-4.5                              |
| Mack EO-O Premium Plus                    |
| RENAULT TRUCKS RLD-2                      |
| RENAULT TRUCKS RLD-3                      |
| VOLVO VDS-3                               |
| VOLVO VDS-4                               |
| VOLVO VDS-4.5                             |
| DQC IV-18 LA                              |
| DTFR 15C110                               |

| This product is recommended for use in applications requiring: |
|----------------------------------------------------------------|
| MAN M 3271-1                                                   |
| MAN M 3575                                                     |
| IVECO 18-1804 TLS E9                                           |
| MANM 3477                                                      |
| Scania Low Ash                                                 |

| This product meets or exceeds the requirements of: |
|----------------------------------------------------|
| ACEA E4                                            |
| ACEA E7                                            |
| API CI-4                                           |
| API CI-4 PLUS                                      |
| API CH-4                                           |
| API CJ-4                                           |
| API CK-4                                           |
| Caterpillar ECF-3                                  |
| Cummins CES 20081                                  |
| Cummins CES 20086                                  |
| DAF Extended Drain                                 |

|                                                    |
|----------------------------------------------------|
| This product meets or exceeds the requirements of: |
| ISUZU DEO (w/ DPD Equipped Vehicles)               |
| JASO DH-2                                          |
| ACEA E11                                           |

Properties and Specifications

| Property                                      |       |
|-----------------------------------------------|-------|
| Density @ 15.6 C, kg/l, ASTM D4052            | 0.861 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 232   |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 13.7  |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445  | 91    |
| Pour Point, °C, ASTM D97                      | -30   |
| Viscosity Index, ASTM D2270                   | 153   |
| Base Number, mgKOH/g, ASTM D2896              | 13.2  |

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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