



Mobil Delvac™ XHP Ultra™ LE MN9 5W-20

Mobil Commercial Vehicle Lube , Belgium

Extra High Performance Diesel Engine Oil

Product Description

Mobil Delvac™ XHP Ultra™ LE MN9 5W-20 is an extra high performance diesel engine oil engineered to provide outstanding protection and fuel economy potential in modern, high performance, low emissions engines used in severe on-highway applications. This engine oil is specifically designed to meet the latest MAN M 3977 requirements for modern diesel engines equipped with Diesel Particulate Filters (DPF). This engine oil is formulated with advanced synthetic technology base oils which provide excellent low temperature fluidity, high temperature viscosity retention, volatility control and contribute to fuel economy improvement potential. The advanced additive system has been expertly engineered to help prolong the life and maintain the efficiency of emission reduction systems such as the DPF.

Features and Benefits

High output, low emission diesel engines significantly increase demands on engine lubricants. Tighter engine design, use of inter-coolers, and turbochargers increase mechanical and thermal stresses on the lubricant. Low emission engine technologies such as higher fuel injection pressure, retarded timing and after-treatment devices all require improved oil performance in areas such as oxidation stability, soot dispersancy, volatility and compatibility with after-treatment devices. The advanced technology in Mobil Delvac™ XHP Ultra™ LE MN9 5W-20 delivers exceptional performance and protection of exhaust systems fitted with Diesel Particulate Filter

| Features | Advantages and Potential Benefits |
|--|---|
| Excellent protection against oil thickening, oil degradation, high temperature deposits, and sludge build-up | Contributes to long oil life consistent with OEM recommended Oil Drain Intervals (ODI) Helps prevent ring sticking for better engine protection and efficiency |
| Excellent protection against wear, scuffing, bore polishing, and corrosion | Helps control wear in heavy duty operation, promoting long engine life |
| Excellent low temperature fluidity | Contributes to excellent oil pumpability and circulation allowing operation in cold climate regions Helps protect against wear during cold engine start-up |
| Advanced "Low Ash" componentry | Helps improve efficiency and extend durability of emission exhaust systems fitted with Diesel Particulate Filters (DPF) |
| Advanced formulation viscometrics | Potentially helps to reduce fuel consumption over higher viscosity grade engine oils without compromising engine durability (potential fuel economy depending on vehicle type and driving conditions) |
| | Helps to control viscosity breakdown and oil consumption under heavy duty, high temperature operating conditions |
| Stay-in-grade shear stability | |
| Very low volatility | |

Applications

Recommended by ExxonMobil for use in:

- Latest generation of MAN trucks and buses requiring MAN M 3977 approved lubricants

- On-highway light and heavy-duty trucking
- Modern heavy-duty engines equipped with Diesel Particulate Filter (DPF) in line with owner manual recommendation.
- This oil may not be used in engines requesting older or other specifications of oil

Specifications and Approvals

This product has the following builder approvals:

MAN M 3977

Properties and Specifications

| Property | |
|--|-----------|
| Grade | SAE 5W-20 |
| Cold-Cranking Simulator, Apparent Viscosity @ -30 C, mPa.s, ASTM D5293 | 4600 |
| Pour Point, °C, ASTM D97 | -39 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 45 |
| Ash, Sulfated, mass%, ASTM D874 | 1 |
| Density @ 15 C, g/ml, ASTM D1298 | 0.85 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 229 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 7.9 |
| Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D4683 | 2.6 |
| Viscosity Index, ASTM D2270 | 147 |
| Total Base Number, mgKOH/g, ASTM D2896 | 10 |
| Appearance, AMS 1738 | |

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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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

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