



Mobil Delvac Synthetic Gear Oil 75W-90, 80W-140

Mobil Commercial Vehicle Lube, United States

Supreme Performance Commercial Gear Lubricants

Product Description

Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 are synthetic drivetrain lubricants engineered to meet the most demanding extended drain and warranty requirements. These products are designed for use in heavy-duty drivetrains that require gear lubricants with relatively high viscosity and excellent load-carrying capability and where extreme pressures and shock loading are expected. Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 incorporate the latest technology in synthetic basestocks and advanced additives providing significant advantages over mineral gear oils.

The state-of-the-art technology in Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 delivers unsurpassed performance for low and high temperature application, protection against thermal degradation and oxidation, reduced wear and corrosion, improved shear stability, extended service capability, and excellent fuel economy. These products meet or exceed the requirements of API service MT-1/GL-5 EP gear oil service classification and are recommended by ExxonMobil for use in applications requiring the MIL-PRF-2105E specification.

The outstanding performance of this product is confirmed by its approval for final drives covered by Eaton Roadranger (E500) and Meritor Extended Warranties of 750,000 miles, with extended oil drains of 500,000 miles. They are also approved by Mack against GO-J Plus (75W-90) and GO-J (80W-140) extended service classifications.

Features and Benefits

Today's technology has vastly improved the performance capabilities of heavy-duty on and off-highway equipment load, torque, speed, and control through innovative drivetrain designs. These designs have changed and increased the requirements of lubricants to deliver this higher level of performance, increase productivity, and reduce operating costs. For heavy-duty final drives, friction control, wear protection, thermal stability, shear stability, rust and corrosion prevention, and seal protection are features that must be optimally balanced to provide extended gear and seal life, smooth operation, improved fuel economy and high load high torque capability over a wide range of applications. The key benefits of Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 include:

| Features | Advantages and Potential Benefits |
|--|--|
| Exceptional thermal stability and resistance to high temperature oxidation | Extended gear and bearing life due to minimal deposits Longer seal life |
| Outstanding protection against low speed/high torque wear and high speed scoring | Increased load-carrying capability. Reduced maintenance costs and longer equipment life |
| Exceptional shear stability | Retains viscosity and film strength under severe operating conditions to prevent wear |
| Excellent rust, staining, and corrosion protection of copper and its alloys | Reduced wear and longer component life |
| Enhanced friction reduction properties | Improved fuel economy and reduced operating costs |
| Outstanding low temperature fluidity versus mineral oils | Reduced wear and ease of start-up |
| Good resistance to foaming | Maintains film strength for reliable lubrication |
| Compatible with typical automotive seals and gaskets | Minimum leakage and reduced contamination |

Applications

Recommended by ExxonMobil for use in:

- Heavy-duty manual transmissions, axles and final drives requiring API GL-5 and MT-1 performance
- On-highway light and heavy-duty trucks, busses and vans
- Off-highway industries including: construction, mining, quarrying, and agriculture

- Other heavy-duty industrial gear drives including hypoid and worm gears operating under conditions where high speed/shock load, high speed/low torque, and/or low speed/high torque conditions prevail
- Differentials, final drives, transfer cases and other gear applications where lubricants meeting MIL-PRF-2105E, API Service GL-5 , EP gear lubricants are recommended
- Equipment such as winch reduction gears and crawler vehicle propulsion gear drives that are exposed to severe low temperatures
- Use as a companion with Mobil Delvac Synthetic Transmission Fluid 50 in transmissions for maximum drive train life, efficiency and fuel economy improvement
- Applications where extended service intervals and warranties are required
- Not recommended for applications requiring API GL-4 Level performance
- Not intended for automatic, manual or semiautomatic transmissions for which engine oil or automatic transmission fluids are recommended

Specifications and Approvals

| Mobil Delvac Synthetic Gear Oil meets or exceeds the requirements of the following industry and builder specifications: | 75W-90 | 80W-140 |
|--|---------------|----------------|
| API GL-5/MT-1 | X | X |
| SAE J2360 | X | X |
| Scania STO 1:0 | X | X |
| ZF TE-ML 07A/08 | X | |

| Mobil Delvac Synthetic Gear Oil has the following builder approvals: | 75W-90 | 80W-140 |
|---|---------------|----------------|
| Dana SHAES 429 | X | X |
| DANA SHAES 256 Rev. C | X | |
| Mack GO-J PLUS | X | |
| Mack GO-J | | X |
| Meritor O-76N | X | X |
| MB-Approval 235.8 | X | |
| International TMS-6816 | X | X |
| ZF TE-ML 05B/16F/21B | X | X |
| ZF TE-ML 12B | X | |
| ZF TE-ML 12M | | X |
| ZF TE-ML 19C | X | |
| ZF TE-ML 17B | X | |
| MAN 342 Typ M2 | X | |
| Voith Turbo 132.00374401/132.00374402 | X | |
| Flender BA 7302 Table R1 | X | |
| Scania STO 2:0 A | X | |

| Mobil Delvac Synthetic Gear Oil is recommended by ExxonMobil for use in applications requiring: | 75W-90 | 80W-140 |
|--|---------------|----------------|
| DANA SHAES 256 Rev. A | | X |

| Mobil Delvac Synthetic Gear Oil has is of quality level, but not approved: | 75W-90 | 80W-140 |
|--|--------|---------|
| MIL-PRF 2105E | X | X |

Typical Properties

| Mobil Delvac Synthetic Gear Oil | 75W-90 | 80W-140 |
|----------------------------------|--------|---------|
| SAE Grade | 75W-90 | 80W-140 |
| Viscosity, ASTM D 445 | | |
| cSt @ 40°C | 120 | 310 |
| cSt @ 100°C | 15.9 | 31.2 |
| Viscosity Index, ASTM D 2270 | 140 | 139 |
| Pour Point, °C, ASTM D 97 | -48 | -36 |
| Flash Point, °C, ASTM D 92 | 205 | 210 |
| Density @ 15°C kg/l, ASTM D 4052 | 0.859 | 0.870 |

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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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

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