



Mobil Delvac Synthetic Transmission Fluid 50  
Mobil Commercial Vehicle Lube, United States

Supreme Performance Transmission Lubricant

## Product Description

Mobil Delvac Synthetic Transmission Fluid 50 is a fully synthetic, manual transmission lubricant engineered to meet the most demanding extended drain and OEM warranty requirements. It is recommended for year-round lubrication of manual transmissions in light to severe duty on- and off-highway equipment operating in a wide range of environments. Designed to provide maximum protection and extended operating life to heavy duty transmissions, Mobil Delvac Synthetic Transmission Fluid 50 provides significant advantages over conventional sulphur-phosphorus gear oils, including outstanding high-temperature performance, oxidation stability, wear protection, and corrosion control.

It has the same viscosity as most SAE 50 engine oils and SAE 90 gear lubricants at the high end of the temperature-viscosity scale, and because of its inherently high viscosity index, it provides stronger film strength at higher temperatures than conventional oils. Mobil Delvac Synthetic Transmission Fluid 50 also ensures effective lubrication at below freezing temperatures without channelling.

The outstanding performance of this product is confirmed by its approval for heavy-duty transmissions covered by Eaton Roadranger and Extended Warranties of 750,000 miles, with oil drains of 500,000 miles. It is also approved by Mack against its TO-A Plus 500,000 mile extended service classification. Mobil Delvac Synthetic Transmission Fluid 50 meets or exceeds the requirements of the API service MT-1 EP gear oil service classification and is recommended by ExxonMobil for use in transmissions and gear cases where API Service GL-1 through GL-4 gear protection is required.

## Features and Benefits

The performance capabilities of today's heavy-duty on- and off-highway equipment have vastly improved in terms of load, speed, control, and reliability through innovative powertrain designs. These designs have markedly increased the demands on transmission lubricants, requiring them to deliver higher levels of performance while extending drains. For heavy-duty transmissions, friction control, wear protection, thermal stability, shear stability, rust and corrosion protection, and seal protection are features that must be balanced to provide extended gear and synchroniser life, smooth shift control, improved efficiency, and higher load capability over a wide range of applications and operating environments. Mobil Delvac Synthetic Transmission Fluid 50 delivers unequalled performance in today's manual transmissions. The key benefits include:

| <b>Features</b>  | <b>Advantages and Potential Benefits</b>                |
|--|---|
| Excellent load carrying, anti-wear, and EP performance | Extends transmission life and reduces cost of operation |

|  |   |
|--|---|
| Outstanding protection against deposit formation           | Longer seal life, extended drain and service intervals                          |
| Maximum protection from corrosion of copper and its alloys | Protects and extends the life of synchronizers                                  |
| Optimized thermal and oxidation protection                 | Extends component life and improves efficiency                                  |
| Exceptional shear stability                                | Minimizes wear during severe operation  |
| Outstanding low-temperature fluidity                       | Reduces wear during cold temperatures and improves shifting with quicker starts |
| Extended drain and service interval capability             | Provides lower operating costs and higher productivity                          |
| Improved friction reduction properties                     | Improves fuel economy and lowers operating costs                                |

## Applications

Recommended by ExxonMobil for use in:

- Heavy-duty manual transmissions where extended service intervals and warranties are required
- On-highway, commercial light and heavy duty trucking, buses, and vans
- Off-highway industries including construction, mining, and agriculture
- Use as a companion with Mobil Delvac Synthetic Gear Oils in rear axles for maximum component life, service efficiency, and fuel economy improvement
- NOT suitable for hypoid gear applications in differentials and final drives, either for topping-off or refills, where API service GL-5 or MIL-PRF-2105E lubricants are specified

## Specifications and Approvals

|   |   |
|---|---|
| <b>Mobil Delvac Synthetic Transmission Fluid 50 meets or exceeds the requirements of the following industry and builder specifications:</b> |   |
| API MT-1  | X |

|  |   |
|--|---|
| <b>Mobil Delvac Synthetic Transmission Fluid 50 has the following builder approvals:</b> |   |
| Eaton PS-164 Rev 7   | X |
| Mack TO-A PLUS   | X |
|  |   |

|                        |   |
|------------------------|---|
| International TMS-6816 | X |
| ZF FreedomLine         | X |

## Typical Properties

| <b>Mobil Delvac Synthetic Transmission Fluid 50</b> |      |
|---|------|
| SAE Grade   | 50   |
| Viscosity, ASTM D 445                               |      |
| cSt @ 40°C  | 132  |
| cSt @ 100°C   | 17.5 |
| Viscosity Index, ASTM D 2270                        | 146  |
| Pour Point, °C, ASTM D 97                           | -45  |
| Flash Point, °C, ASTM D 92                          | 221  |
| Density @ 15°C kg/l, ASTM D 4052                    | 0.86 |

## 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](http://www.exxonmobil.com)

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