



**Mobil Delvac 1™ Gear Oil 75W-90**  
Mobil Commercial Vehicle Lube , Thailand  
Fully Synthetic Heavy Duty Drivetrain Lubricant

**Product Description**

Mobil Delvac 1 Gear Oil 75W-90 is a fully synthetic drivetrain lubricant engineered to meet very demanding extended drain and warranty requirements. This product is designed for use in heavy-duty drivetrains that require gear lubricants with excellent load-carrying capability and where extreme pressures and shock loads are expected. Mobil Delvac 1 Gear Oil 75W-90 incorporates synthetic basestock and advanced additives providing significant advantages over conventional gear oils.

The state-of-the-art technology in Mobil Delvac 1 Gear Oil 75W-90 delivers excellent performance, helps to protect against thermal degradation and oxidation, and contributes to reduced wear and corrosion, improved shear stability and extended service capability.

**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 features that must be optimally balanced to contribute to extended gear and seal life, smooth operation, improved fuel economy potential and high load high speed capability over a wide range of applications.

The key benefits of Mobil Delvac 1 Gear Oil 75W-90 include:

| Features                                                                         | Advantages and Potential Benefits                                                                |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Exceptional thermal stability and resistance to high temperature oxidation       | Long gear and bearing life due to minimal deposits<br>Long seal life                             |
| Outstanding protection against low speed/high torque wear and high speed scoring | Increased load-carrying capability.<br>Helps to reduce maintenance costs and long equipment life |
| Exceptional shear stability                                                      | Helps to retain viscosity and film strength under severe operating conditions to prevent wear    |
| Enhanced friction reduction properties                                           | Has potential for fuel economy and reduce operating costs                                        |
| Outstanding low temperature fluidity versus conventional oils                    | Helps to Reduce wear and ease of start-up                                                        |
| Good resistance to foaming                                                       | Helps to maintain film strength for reliable lubrication                                         |
| Compatible with typical automotive seals and gaskets                             | Minimum leakage and reduced contamination                                                        |

**Applications**

- Heavy duty non-synchronized 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, or low speed/high torque conditions prevail
- Mobil Delvac 1 Gear Oil 75W-90 is intended for initial fill, topping-off or refilling differentials, final drives and transfer cases
- Recommended for equipment such as winch reduction gears and crawler vehicle propulsion gear drives that are exposed to severe low temperatures

- Recommended 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

|                                                         |
|---------------------------------------------------------|
| <b>This product has the following approvals:</b>        |
| Dana SHAES 256 Rev C                                    |
| Dana SHAES 429                                          |
| Detroit Fluids Specification 93K219.01                  |
| HYUNDAI DYMOS P110SS AXLE - Low Floor Rear Axle         |
| Mack GO-J Plus                                          |
| MAN 342 Typ M2                                          |
| MB-Approval 235.8                                       |
| Navistar, Inc. MPAPS B-6821                             |
| SAE J2360                                               |
| Voith Turbo 132.00374401                                |
| Voith Turbo 132.00374402                                |
| VOLVO 97312                                             |
| ZF TE-ML 05A                                            |
| ZF TE-ML 12L                                            |
| ZF TE-ML 12N                                            |
| ZF TE-ML 16F                                            |
| ZF TE-ML 17B                                            |
| ZF TE-ML 19C                                            |
| ZF TE-ML 21A                                            |
| Siemens Traction Gears GmbH (former Flender Rail) T7302 |
| Meritor O-95                                            |

|                                                                       |
|-----------------------------------------------------------------------|
| <b>This product is recommended for use in applications requiring:</b> |
| Eaton PS-163                                                          |
| MIL (US) MIL-PRF-2105E                                                |

|                                                           |
|-----------------------------------------------------------|
| <b>This product meets or exceeds the requirements of:</b> |
|-----------------------------------------------------------|

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

API GL-5

API MT-1

R. Bosch AS TE-ML 08

ISUZU Axle Oil

ISUZU Large Manual Transmission Oil

ISUZU LCV Front Axle Oil

Meritor O-76-N

**Properties and Specifications**

| Property                                                   |            |
|------------------------------------------------------------|------------|
| Grade                                                      | SAE 75W-90 |
| Density @ 15.6 C, kg/l, ASTM D4052                         | 0.86       |
| Flash Point, Cleveland Open Cup, °C, ASTM D92              | 205        |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445 | 15.0       |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445  | 120        |
| Pour Point, °C, ASTM D97                                   | -48        |
| Viscosity Index, ASTM D2270                                | 140        |

**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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ExxonMobil Marketing (Thailand) Limited

3195/26, 22nd Floor, Rama IV Road

Klong Ton, Klong Toey District

Bangkok 10110

Thailand

+66 2 407 4000

<http://www.exxonmobil.com>

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect 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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