



Mobilube HD Plus 80W-90, 85W-140

Mobil Commercial Vehicle Lube, United States

Extra High Performance Commercial Gear Lubricants

Product Description

Mobilube HD Plus 80W-90 and 85W-140 are extra high performance commercial gear lubricants formulated from select base oils and an advanced additive system. These lubricants are engineered for performance in heavy-duty commercial transmissions, axles, and final drives where extreme pressures and shock loading are expected. They provide excellent chemical and thermal stability at elevated bulk oil temperatures, good performance at low temperatures, and have demonstrated good rust protection resulting from water contamination and wet conditions. They are recommended by ExxonMobil for applications where API GL-5 and MT-1 service is required. Mobilube HD Plus 80W-90 and 85W-140 share common formulations with Esso Gear Oil GX 80W-90 and 85W-140.

Features and Benefits

Today's heavy equipment applications place higher performance demands on drive train lubricants. Higher speeds, higher torque, and heavier loads require improved formulations to maximise equipment life and optimise operating costs. Longer service intervals place additional demands on the gear lubricant. Mobilube HD Plus gear lubricants are engineered to meet these challenges. The key benefits include:

| Features | Advantages and Potential Benefits |
|---|---|
| Excellent thermal stability and resistance to high temperature oxidation | Extended gear and bearing life due to minimal deposits and longer seal life |
| Good protection against low speed/high torque wear and against high speed scoring | Increased load carrying capability and reduced operating costs |
| Excellent rust, staining, and corrosion protection | Reduced wear and longer component life |
| Effective low temperature lubrication | Reduced wear and ease of start-up |
| Wide multipurpose capability | Reduced number of gear lubricants to simplify inventory and minimize misapplication |
| Good resistance to foaming | Maintains film strength for effective 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 level performance
- On-highway light and heavy-duty trucks, busses, vans, and cars
- Off-highway industries including: construction, mining, quarrying, and agriculture
- Other heavy-duty industrial and automotive applications involving hypoid and other gears operating under conditions where high speed/shock load, high speed/low torque, and/or low speed/high torque conditions prevail
- Initial fill, top-off, and refill of enclosed commercial gearing in manual or semiautomatic transmissions where gear lubricants are recommended including drive axles and final drives
- Not recommended for applications requiring API GL-4 Level performance
- Not intended for transmissions for which engine oil or automatic transmission fluids are recommended

Specifications and Approvals

| Mobilube HD Plus Gear Oil meets or exceeds the requirements of the following industry specifications: | 80W-90 | 85W-140 |
|---|--------|---------|
| API GL-5 | X | X |
| API MT-1 | X | X |
| SCANIA STO-1:0 | X | X |

| Mobilube HD Plus Gear Oil is of the following quality level, but not approved: | 80W-90 | 85W-140 |
|--|--------|---------|
| MIL-PRF-2105E | X | X |

Typical Properties

| Mobilube HD Plus | | |
|----------------------------------|--------|---------|
| SAE Grade | 80W-90 | 85W-140 |
| Viscosity, ASTM D 445 | | |
| cSt @ 40°C | 139 | 333 |
| cSt @ 100°C | 14.5 | 25.4 |
| Viscosity Index, ASTM D 2270 | 103 | 99 |
| Pour Point, °C, ASTM D 97 | -27 | -18 |
| Flash Point, °C, ASTM D 92 | 210 | 230 |
| Density @ 15°C kg/l, ASTM D 4052 | 0.895 | 0.903 |

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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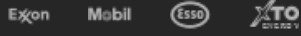
Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change 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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