

Mobilube 1 SHC 75W-90

Fully Synthetic Automotive Gear Lubricant

Product Description

Mobilube 1 SHC 75W-90 is a fully synthetic, supreme performance commercial gear lubricant formulated using advanced base oils and the latest technology additive system. This lubricant is engineered for heavy duty manual transmissions and rear axles where operations require gear lubricants with relatively high viscosity and excellent load-carrying capability with wide temperature conditions and where extreme pressures and shock loading are expected. Mobilube 1 SHC 75W-90 has higher thermal and oxidation stability, higher inherent Viscosity Index (VI), extremely low pour point, and improved low temperature fluidity. The state-of-the-art technology behind Mobilube 1 SHC 75W-90 delivers outstanding viscosity-temperature properties necessary for wide temperature range applications, optimised protection against thermal degradation and oxidation, wear and corrosion, shear stability, extended service capability, and fuel economy improvement. The product is formulated to provide an inherently higher VI using synthesised base oils to provide stronger film strength at higher temperatures than mineral oils, without the addition of VI improvers. This technology also insures effective lubrication since this product remains fluid without channelling at subzero temperatures. Mobilube 1 SHC 75W-90 meets or exceeds the API Service MT-1/GL-4/GL-5 gear oil 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 higher levels of performance, increased productivity, and reduced 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. Mobilube 1 SHC 75W-90 is engineered to deliver exceptional performance and lowest total lube-related operating cost in modern heavy duty drivetrains. The key benefits 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, spalling, and against high speed scoring | Increased load-carrying capability. Reduced maintenance costs and longer equipment life |
| Excellent 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 | Improved synchroniser performance and longer component life |
| Enhanced frictional properties | Improved fuel economy and improved shiftability |
| Outstanding low temperature fluidity versus mineral oils | Reduced wear and ease of start up--even in arctic conditions |
| Wide multipurpose capability | One lubricant for heavy duty manual transmissions and rear axles |



| Features | Advantages and Potential Benefits |
|--|---|
| Good resistance to foaming | Maintains film strength for effective lubrication |
| Compatible with typical automotive seals and gaskets | Minimum leakage and reduced contamination |

Applications

- Heavy duty manual transmissions and axles requiring API GL-4, GL-5 and MT-1 level performance.
- On highway light and heavy duty trucks, busses, vans, and cars
- Off highway industries including: construction, quarrying, and agriculture
- Initial fill, top-up or refill of transmissions and axles and other applications where lubricants meeting API GL-4, GL-5 or MT-1 where mild extreme pressure gear lubricants are recommended
- Not intended for automatic, manual, or semi-automatic transmissions for which engine oil or automatic transmission fluids are recommended
- Where extended service intervals and warranties are required

Specifications and Approvals

Mobilube 1 SHC 75W-90 meets or exceeds the following industry and builder specifications:

API GL-4/GL-5/MT-1

ZF-TE-ML 02B/05B/07A/12B/16F/17B

MAN 3343 Type SL

Scania STO 1.0

Typical Properties

Mobilube 1 SHC 75W-90

| | |
|----------------------------------|--------|
| SAE Grade | 75W-90 |
| Viscosity, ASTM D 445 | |
| cSt @ 40°C | 102 |
| cSt @ 100°C | 15.1 |
| Viscosity Index, ASTM D 2270 | 156 |
| Pour Point, °C, ASTM D 97 | -54 |
| Flash Point, °C, ASTM D 92 | 202 |
| Density @ 15°C kg/l, ASTM D 4052 | 0.87 |

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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