# Mobilube™ 1 SHC 75W-90

Mobil Commercial-Vehicle-Lube , Malaysia

Fully Synthetic Automotive Gear Lubricant

## Product Description

Mobilube 1 SHC 75W-90 is a fully synthetic, high 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 excellent load-carrying capability over wide operating temperatures and where extreme pressures and shock loading are expected. Mobilube 1 SHC 75W-90 has excellent thermal and oxidation stability, high inherent Viscosity Index (VI), extremely low pour point, and outstanding 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 potential fuel economy improvement. Mobilube 1 SHC 75W-90 incorporates the latest technology in synthetic basestocks and advanced additives providing significant advantages over conventional gear oils. This technology also ensures effective lubrication since this product remains fluid without channeling at subzero temperatures. Mobilube 1 SHC 75W-90 meets or exceeds the requirements of 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 reduce 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 | Long gear and bearing life due to minimal deposits<br>Long seal life |
| Outstanding protection against low speed/high torque wear, spalling, and against high speed scoring | Increased load-carrying capability.<br>Reduced maintenance costs and long 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 long component life |
| Enhanced frictional properties | Fuel economy potential 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 |
| 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:

- On-highway light- and heavy-duty trucks, busses, vans, and cars
- Off-highway industries including: construction, quarrying, and agriculture
- 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
- Applications where extended service intervals and warranties are required

## Specifications and Approvals

| **MOBILUBE 1 SHC 75W-90 meets or exceeds the requirements of the following industry and builder specifications:** |
|---|
| Scania STO 2:0 A FS |

| **This product has the following approvals:** |
|---|
| MAN 341 Typ Z2 |
| MAN 342 Typ S1 |
| SAE J2360 |
| ZF TE-ML 02B |
| ZF TE-ML 12L |
| ZF TE-ML 12N |
| ZF TE-ML 16F |
| ZF TE-ML 17B |
| ZF TE-ML 19C |
| Mack GO-J |
| ZF TE-ML 05A |
| ZF TE-ML 21A |
| DTFR 12B140 |

| **This product is recommended for use in applications requiring:** |
|---|
| API GL-4 |
| MAN 341 Typ E3 |
| ZF TE-ML 08 |

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

| This product meets or exceeds the requirements of: |
|---|
| API GL-5 |
| API MT-1 |
| R. Bosch AS TE-ML 08 |
| Scania STO 1:0 |
| ZF TE-ML 07A |
| Scania STO 1:1 G |

## Properties and Specifications

| Property | |
|---|---|
| Grade | SAE 75W-90 |
| Density @ 15 C, kg/l, ASTM D4052 | 0.87 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 202 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 15.1 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 102 |
| Pour Point, °C, ASTM D97 | -54 |
| Viscosity Index, ASTM D2270 | 156 |

## 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.aspx

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04-2025
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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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