

### Product Description and Application

Mobilube 1 SHC is a fully synthetic, heavy duty, multipurpose automotive gear oil suitable for use as a complete driveline lubricant. As an SAE 75W-90 grade it provides low temperature fluidity with high temperature stability ensuring a high level of wear protection in both manual transmissions (synchromesh and non-synchromesh), and drive axles over a wide range of operating conditions. The combination of synthetic base fluid technology and special high performance additive package has been carefully balanced to provide a formulation meeting the low temperature fluidity, compatibility and 'shiftability' requirements of most European synchromesh gearboxes; whilst also providing the relatively high viscosity and load carrying requirements of heavy duty drive axles and transfer cases.

Mobilube 1 SHC is compatible with conventional type lubricants, but the full potential of its superior performance characteristics will only be obtained if the gear unit is drained and refilled with Mobilube 1 SHC. It has greatly improved thermal/oxidative stability and low temperature flow properties providing superior fuel economy benefits and the potential for extended drain. The excellent viscosity/temperature characteristics of Mobilube 1 SHC permit its use on a year round basis in many automotive applications. It has demonstrated excellent field performance in European OEM's extended drain applications.

Mobilube 1 SHC is recommended for service fill and top up of commercial vehicle, construction equipment and passenger car manual transmissions, transfer cases and drive axles operating under a very wide range of temperature conditions and requiring the use of either an API GL-4 or GL-5 performance lubricant. It combines excellent European synchromesh compatibility and thermal stability with the extended durability and wear protection required for the most heavily loaded hypoid gear application.

Mobilube 1 SHC is not suitable for automatic or semi-automatic transmissions for which engine oils or special fluids are required.

### Benefits

Mobilube 1 SHC offers the following benefits:

- Improved fuel economy over conventional SAE 90 automotive gear lubricants
- Complete driveline lubrication leading to reduced product inventories
- Excellent low temperature fluidity giving easier gear changing from cold compared to conventional SAE 80W and 90 grades
- High level of wear protection under the most severe conditions ( demonstrable synchromesh compatibility and improved 'shiftability' )
- Extended drain capability
- Completely compatible with conventional petroleum gear lubricants, seals and materials usually used in automotive applications

## Specifications

Mobilube 1 SHC is approved to or meets the following specifications:

API GL-4 and GL-5

It is approved to:

MAN 3343 SL  
Scania STO 1:0  
ZF TE-ML-02B  
ZF TE-ML-05B  
ZF TE-ML-07A  
ZF TE-ML-12B

## Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

## Typical Characteristics

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### Mobilube 1 SHC

SAE Grade	75W-90
Viscosity, cSt at 40°C	102
Viscosity, cSt at 100°C	15.1
Viscosity Index	156
Brookfield Viscosity at -40 °C, cP	66,000
Pour Point, °C	-51
Flash Point, °C	202

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Due to continual product research and development, the information contained herein is subject to change without notice.

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