

Mobilube SHC 75W-90, 80W-140

Fully Synthetic Heavy Duty Drivetrain Lubricants

Product Description

Mobilube SHC 75W-90 and 80W-140 are fully synthetic drivetrain lubricants engineered to meet the most demanding extended drain and warranty requirements. These products are designed for use in heavy-duty drivetrains that require gear lubricants with relatively high viscosity and excellent load-carrying capability and where extreme pressures and shock loading are expected. Mobilube SHC 75W-90 and 80W-140 incorporates the latest technology in synthetic basestocks and advanced additives providing significant advantages over mineral gear oils.

The state-of-the-art technology in Mobilube SHC 75W-90 and 80W-140 delivers unsurpassed performance for low and high temperature application, protection against thermal degradation and oxidation, reduced wear and corrosion, improved shear stability, extended service capability, and excellent fuel economy.

The outstanding performance of this product is confirmed by its approval for final drives covered by Eaton Roadranger (E500) and ArvinMeritor Extended Warranties of 750,000 miles, with extended oil drains of 500,000 miles. They are also approved by Mack against GO-J Plus (75W-90) and GO-J (80W-140) extended 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 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 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. The key benefits of Mobilube SHC 75W-90 and 80W-140 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 and high speed scoring	Increased load-carrying capability. Reduced maintenance costs and longer equipment life
Exceptional shear stability	Retains viscosity and film strength under severe operating conditions to prevent wear
Enhanced friction reduction properties	Improved fuel economy and reduced operating costs
Outstanding low temperature fluidity versus mineral oils	Reduced wear and ease of start-up
Good resistance to foaming	Maintains film strength for reliable lubrication
Compatible with typical automotive seals and gaskets	Minimum leakage and reduced contamination



Applications

- Heavy duty 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, and/or low speed/high torque conditions prevail
- Mobilube SHC 75W-90 and 80W-140 are 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
- Use as a companion with Mobiltrans SHC 50 in transmissions for maximum drive train life, efficiency and fuel economy improvement
- 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

Mobilube SHC meets or exceeds the following industry and builder specifications:	75W-90	80W-140	
API GL-5/MT-1	X	X	X
Dana Shaes 256	X	X	
Eaton E500 PS 163/037	X	X	
Mack GO-J Plus	X		
Mack GO-J		X	
ArvinMeritor 0-76N	X	X	
International TMS-6816	X	X	
Daimler Chrysler MB235.8	X		
Scania STO 1:0	X	X	
DaewooAvia Transmission, Eaton		X	
Military:	Mobilube SHC 75W-90	Mobilube SHC 80W-140	
MIL-PRF 2105E quality level	X	X	

Typical Properties

Mobilube SHC Gear Oils	75W-90	80W-140
SAE Grade	75W-90	80W-140
Viscosity, ASTM D 445		
cSt @ 40°C	120	310
cSt @ 100°C	15.9	31.2
Viscosity Index, ASTM D 2270	140	139
Pour Point, °C, ASTM D 97	-48	-36
Flash Point, °C, ASTM D 92	205	210

Mobilube SHC Gear Oils

Density @ 15°C kg/l, ASTM D 4052

0.86

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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