

Mobiltrans SHC 50

Supreme Performance Transmission Lubricant

Product Description

Mobiltrans SHC 50 is a fully synthetic, manual transmission lubricant engineered to meet the most demanding extended drain and OEM warranty requirements. It is recommended for year-round lubrication of manual transmissions in light to severe duty on- and off-highway equipment operating in a wide range of environments. Designed to provide maximum protection to heavy duty transmissions, Mobiltrans SHC 50 provides significant advantages over conventional sulphur-phosphorus gear oils, including outstanding high-temperature performance, oxidation stability, wear protection, and corrosion control.

The ability of Mobiltrans SHC 50 to extend component life is unequalled. It has the same viscosity as most SAE 50 engine oils and SAE 90 gear lubricants at the high end of the temperature-viscosity scale, and because of its inherently high viscosity index, it provides stronger film strength at higher temperatures than conventional oils. Mobiltrans SHC 50 also ensures effective lubrication at below freezing temperatures without channelling.

The outstanding performance of this product is confirmed by its approval for heavy-duty transmissions covered by Eaton Roadranger and ArvinMeritor Extended Warranties of 750,000 miles, with oil drains of 500,000 miles. It is also approved by Mack against its TO-A Plus 500,000 mile extended service classification. Mobiltrans SHC 50 meets the API service MT-1 EP gear oil service classification and is suitable for transmissions and gear cases where API Service GL-1 through GL-4 gear protection is required.

Features & Benefits

The performance capabilities of today's heavy-duty on- and off-highway equipment have vastly improved in terms of load, speed, control, and reliability through innovative powertrain designs. These designs have markedly increased the demands on transmission lubricants, requiring them to deliver higher levels of performance while extending drains. For heavy-duty transmissions, friction control, wear protection, thermal stability, shear stability, rust and corrosion protection, and seal protection are features that must be balanced to provide extended gear and synchroniser life, smooth shift control, improved efficiency, and higher load capability over a wide range of applications and operating environments. Mobiltrans SHC 50 delivers unequalled performance in today's manual transmissions. The key benefits include:

Features	Advantages and Potential Benefits
Excellent load carrying, anti-wear, and EP performance	Extends transmission life and reduces cost of operation
Outstanding protection against deposit formation	Longer seal life, extended drain and service intervals
Maximum protection from corrosion of copper and its alloys	Protects and extends the life of synchronizers
Optimized thermal and oxidation protection	Extends component life and improves efficiency
Exceptional shear stability	Minimizes wear during severe operation
Outstanding low-temperature fluidity	Reduces wear during cold temperatures and improves shifting with quicker starts
Extended drain and service interval capability	Provides lower operating costs and higher productivity
Improved friction reduction properties	Improves fuel economy and lowers operating costs

ExxonMobil Lubricants & Specialties

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Applications

- Heavy-duty manual transmissions where extended service intervals and warranties are required
- On-highway, commercial light and heavy duty trucking, buses, and vans
- Off-highway industries including construction, mining, and agriculture
- Use as a companion with Mobilube SHC fully synthetic gear oil in rear axles for maximum component life, service efficiency, and fuel economy improvement
- NOT suitable for hypoid gear applications in differentials and final drives, either for topping-off or refills, where API service GL-5 or MIL-PRF-2105E lubricants are specified

Specifications & Approvals

Mobiltrans SHC 50 meets the following industry and builder specifications:

API GL-4/MT-1	X
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Mobiltrans SHC 50 has the following builder approvals:

ArvinMeritor O-81	X
Eaton Roadranger E500™ PS-164, PS-081	X
Mack TO-A Plus	X
International TMS-6816	X
Volvo STD 97305	X

Typical Properties

Mobiltrans SHC 50

SAE Grade	50
Viscosity, ASTM D 445	
cSt @ 40°C	140
cSt @ 100°C	17.6
Viscosity Index, ASTM D 2270	138
Pour Point, °C, ASTM D 97	-48
Flash Point, °C, ASTM D 92	240
Density @ 15°C kg/l, ASTM D 4052	0.876

Health & 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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