



HAVOLINE[®] FULL SYNTHETIC LS (LIMITED SLIP) GEAR LUBRICANT

SAE 75W-90, 75W-140

PRODUCT DESCRIPTION

Havoline[®] Full Synthetic LS (Limited Slip) Gear Lubricant is a premium, full synthetic gear lubricant designed for superior performance and dependable wear protection for use in most passenger cars and light-duty trucks. It is designed to perform in extreme operating conditions and over a range of temperatures, is SAE J2360 approved and can be used with open and limited slip differentials requiring SAE J2360, API GL-5 or MT-1 specifications.

CUSTOMER BENEFITS

Havoline Full Synthetic LS (Limited Slip) Gear Lubricant delivers value through:

- **Enjoy peace of mind** - offers warranty coverage for vehicles that require SAE J2360 approval.
- **Maintain broad coverage** - a single gear lubricant for use in both conventional and limited slip differentials eliminates the need and complexity to carry multiple products.
- **Maximize gear life** - helps protect gears (like hypoids) under extreme pressure from scuffing and wear.
- **Low maintenance costs** - superior high temperature and oxidation stability properties help protect differentials, prevent excessive tire wear, maximize gear oil life, and extend drain intervals.
- **Helps improve fuel economy** - low viscosity formulation reduces churn losses and helps improve efficiency to maximize fuel economy.
- **Proven performance** - rigorous field trials have proven product performance in real-world environments, including reduction in NVH (noise, vibration and harshness), improved on - and off-road traction and low wear of axle shaft.

- **Save money** - this single, multi-purpose product meets the requirements of limited slip differentials, so there is no need for limited slip boosters¹ or top treats that could potentially void equipment warranty.

FEATURES

Havoline Full Synthetic LS (Limited Slip) Gear Lubricant is formulated with high purity synthetic base oils and thermally stable friction modifiers that can be used for complete replacement or top-off in limited slip differentials.

- **Shear stability and wear protection** - retains fluid viscosity by maintaining a micro-thin sacrificial film on the surface of the gear teeth to help minimize the spalling and wear of gears, even under the most demanding operating conditions.
- **Limited slip performance** - eliminates chattering and helps improve traction, low temperature fluidity and ease of startup in limited slip differentials.
- **Thermal and oxidation stability** - Resists against degradation, minimizes oxidative sludge and varnish formation, and provides superior protection over a range of temperatures for maximum gear, bearing and seal life.
- **Equipment cleanliness** - rust and corrosion inhibitors help protect hardware from rust and corrosion and reduce the wear of components.
- **Lubrication** - foam inhibitors help maintain lubricant film strength for maximum lubrication performance.

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1. Use of limited slip booster can void OEM warranty and cause loss of antiwear and extreme pressure performance.

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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APPLICATIONS

Havoline® Full Synthetic LS (Limited Slip) Gear Lubricant is licensed for use in applications that require SAE J2360 approval (SAE 75W-90 approval number: PRI GL 1179; SAE 75W-140 approval number: PRI GL 1180).

This product meets or exceeds the performance requirements of:

- **API Service GL-5**
- **API Category MT-1**
- **Chrysler MS-9763**
- **Mack GO-J**
- **Meritor O76-E, O76-N, O-76-Q, O-76-R, O-80, and O-94²**

Havoline Full Synthetic LS (Limited Slip) Gear Lubricant is recommended for service-fill and top-off of:

- Open and limited slip differentials
- Differentials calling for SAE 75W-90 and 75W-140 viscosity grades
- Axles in passenger cars, medium and heavy-duty trucks, and buses, where gear lubricants are recommended
- Non-synchronized manual transmissions
- Off-highway applications requiring API GL-4 fluids that provide adequate anti-chatter performance (friction modification).

2. Supersedes Meritor O-76 specifications

TYPICAL TEST DATA

SAE Grade	Test Method	75W-90	75W-140
<i>Product Number</i>		250603	250604
<i>SDS Number</i>		55441	55450
Density at 15°C, kg/L	ASTM D4052	0.8885	0.8885
Viscosity, Kinematic mm ² /s at 40°C mm ² /s at 100°C	ASTM D445	90 15.4	186 27.9
Viscosity, Brookfield mPa.s at -26°C	ASTM D2983	32,900	103,300
Viscosity Index	ASTM D2270	182	188
Flash Point, °C(°F)	ASTM D92	200(392)	201(394)
Pour Point, °C(°F)	ASTM D97	-54(-65)	-45(-49)

Minor variations in product typical test data are to be expected in normal manufacturing.

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