

SHP® Synthetic Gear Lube

Kendall® SHP Synthetic Gear Lube is a synthetic, multipurpose, extreme-pressure, API GL-5 automotive gear lubricant. It is specifically designed for use in passenger car and truck axles with hypoid gear sets operating in extreme temperatures or under severe driving conditions.

SHP Synthetic Gear Lube is formulated to provide long service life and extended gear life in automotive differentials operating under varying conditions of speed, load, temperature and torque. The carefully balanced formulation is designed to minimize oxidative sludge and varnish formation, reduce wear, prevent scoring damage, and protect against metal fatigue and spalling damage under shock-load conditions. The full-synthetic formulation provides enhanced oxidation resistance and thermal stability at high temperatures and better low-temperature properties compared with conventional mineral oil-based automotive gear oils, resulting in longer service intervals and better performance over a wider temperature range.

SHP Synthetic Gear Lube is fully approved for 500,000-mile drain intervals in drive axles in linehaul service under Dana/Eaton Roadranger® or Meritor extended warranties.

Applications

- Service fill of conventional differentials on passenger cars and trucks
- Top-off only of limited-slip differentials on passenger cars and light trucks⁽¹⁾
- Service fill of differentials, final drives and transfer cases in some off-highway equipment
- Non-synchronized manual transmissions in trucks, buses and heavy equipment where the manufacturer specifies an API GL-5 or MT-1 gear oil

⁽¹⁾ **Note:** For complete drain and refill, many limited-slip differentials may require the manufacturer's specified gear lubricant or supplemental additive. Refer to the owner's manual for specific requirements.

SHP Synthetic Gear Lube meets or exceeds the requirements of:

- API Service GL-5, MT-1
- International (Navistar) TMS 6816
- MIL-PRF-2105E
- SAE J2360
- STEMCO PPS+ and PPS wheel end systems (approved)

**Premium
Synthetic
Automotive
Gear Lubricant,
API GL-5/MT-1**

CONTACT INFORMATION

**Phillips66
Lubricants.com**

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SHP Synthetic Gear Lube is approved for service fill under the following OEM specifications:

- Dana SHAES-256 Rev C, SHAES-429
- Mack GO-J Plus
- Meritor O76-N

Features/Benefits

- Extended drain, all-season performance
- Outstanding oxidation resistance and thermal stability to minimize sludge and varnish formation
- Excellent thermal durability and extreme-pressure properties for extended gear life
- High load-carrying capacity for protection against scuffing and wear
- High shear stability
- Outstanding low-temperature properties
- Protects against rust and corrosion
- Good foam resistance
- Potential fuel savings compared with conventional SAE 80W-90 gear oils

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Typical Properties

| SAE Grade | 75W-90 |
|----------------------------|---------------|
| Specific Gravity @ 60°F | 0.890 |
| Density, lbs/gal @ 60°F | 7.41 |
| Color, ASTM D1500 | L 6.0 |
| Flash Point (COC), °C (°F) | 204 (399) |
| Pour Point, °C (°F) | -46 (-51) |
| Viscosity, Brookfield | |
| cP @ -40°C | 125,000 |
| Viscosity, Kinematic | |
| cSt @ 40°C | 122 |
| cSt @ 100°C | 16.6 |
| Viscosity Index | 147 |

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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