

Triton® Synlube LDO

76® Triton Synlube LDO is a synthetic, API GL-5 automotive gear lubricant specially designed for long-drain service and extended warranty protection in passenger car and truck axles with hypoid gear sets.

Triton Synlube LDO is formulated to provide long service life and extended gear life in automotive differentials operating under varying conditions of speed, load, temperature and torque. It combines excellent oxidation resistance and thermal stability at high temperatures with outstanding low-temperature properties to ensure excellent performance over a wide temperature range. It has excellent water-separating properties to prevent the formation of emulsions and retain its lubricating properties even in the presence of a small amount of water.

Triton Synlube LDO is approved for 500,000-mile drain intervals in drive axles under 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 of 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.

Triton Synlube LDO meets or exceeds the requirements of:

- API Service GL-5, MT-1
- Mack GO-J
- MIL-PRF-2105E
- SAE J2360

Triton Synlube LDO is approved for service fill under the following OEM specification:

- Meritor O76-R for extended-drain lubricants

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

CONTACT INFORMATION

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Features/Benefits

- Extended drain/extended warranty protection
- 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
- Excellent water-separating properties
- Protects against rust and corrosion
- Good foam resistance
- Compatible with synthetic and conventional automotive gear oils

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Typical Properties

SAE Grade	75W-90	80W-140
Specific Gravity @ 60°F	0.874	0.882
Density, lbs/gal @ 60°F	7.28	7.34
Color, ASTM D1500	L 8.0	L 8.0
Flash Point (COC), °C (°F)	200 (392)	200 (392)
Pour Point, °C (°F)	-45 (-49)	-36 (-33)
Viscosity, Brookfield		
cP @ -40°C	119,000	—
cP @ -26°C	—	48,000
Viscosity, Kinematic		
cSt @ 40°C	114	222
cSt @ 100°C	17.2	25.5
Viscosity Index	166	146

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>.