



Triton® Synthetic Transoil 50

Phillips 66® Synthetic Transoil 50 is a full-synthetic SAE 50 transmission lubricant designed for use in heavy-duty manual and automated manual transmissions in trucks and buses operating in extreme temperatures and/or extended service intervals. It combines improved low-temperature properties with outstanding oxidation resistance and thermal stability at high temperatures to provide excellent all-weather, year-round performance.

Triton Synthetic Transoil 50 has excellent shear stability and anti-wear properties to protect synchronizers, reduce component wear and promote longer transmission life. It is particularly recommended for use in newer, higher torque manual transmissions coupled with increased horsepower engines. It is fully approved for extended drain service (up to 500,000 miles in linehaul service) in Eaton Roadranger® and Meritor transmissions.

Applications

- Heavy-duty manual and automated manual transmissions in trucks and buses where the OEM specifies a non-EP, API MT-1 SAE 50 or API GL-1 SAE 90 gear oil, or an SAE 50 heavy-duty engine oil
- Triton Synthetic Transoil 50 is recommended for multi-AMT out of warranty service lubricant for Eaton, Volvo iShift (Mack mDrive), and Detroit DT12 automated manual transmissions:
- Triton Synthetic Transoil 50 is approved for service fill under the following:
 - Eaton PS-164 Rev 7
 - Mack TO-A Plus
 - Meritor O-81

Features/Benefits

- Extended drain, all-season performance
- Outstanding oxidation resistance and thermal stability to minimize sludge and varnish formation
- Excellent low-temperature properties for easier shifting in cold weather
- High shear stability
- High load-carrying capacity
- Protects against component wear and gear micropitting
- Protects against rust and corrosion
- Good foam resistance
- Excellent seal compatibility
- Potential fuel economy improvement compared with non-synthetic transmission fluids

Premium Full-Synthetic SAE 50 Manual and Automated Manual Transmission Fluid, API MT-1





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Typical Properties	
SAE Grade	50
Specific Gravity @ 60°F	0.860
Density, lbs/gal @ 60°F	7.16
Color, Visual	Amber
Flash Point (COC), °C (°F)	221 (430)
Pour Point, °C (°F)	-45 (-49)
Viscosity, Brookfield	
cP @ -40°C	104,000
Viscosity, Kinematic	
cSt @ 40°C	132
cSt @ 100°C	17.5
Viscosity Index	146

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <https://www.phillips66.com/customers/sds>