



**YOU GET OUT  
WHAT YOU  
PUT IN.** 

## **SHP® Synthetic MTF**

Kendall® SHP Synthetic MTF (Manual Transmission Fluid) is a full-synthetic, fuel-efficient transmission lubricant designed for use in heavy-duty commercial manual transmissions operating in extreme temperatures and/or extended service intervals. It combines outstanding low-temperature properties with outstanding oxidation resistance and thermal stability at high temperatures to provide excellent all-climate, year-round performance. It provides improved fuel efficiency of up to 1.5% compared with previous-generation SAE 50 manual transmission fluids.

SHP Synthetic MTF has excellent shear stability and antiwear 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 recommended for extended drain service in most heavy-duty manual transmissions, and is fully approved under the new Eaton PS-386 specification for extended drain service (up to 500,000 miles in linehaul service) in Eaton Roadranger® transmissions.

### **Applications**

- Heavy-duty manual and semi-automatic transmissions in commercial vehicles where the OEM specifies a non-EP SAE 40 or SAE 50 API MT-1 transmission fluid, an API GL-1 SAE 90 gear oil, or an SAE 40 or SAE 50 heavy-duty engine oil

SHP Synthetic MTF meets or exceeds the requirements of:

- API Service MT-1
- Navistar MPAPS TMS 6816
- Mack TO-A Plus
- Meritor O-81

SHP Synthetic MTF is approved for service fill under the following OEM specification:

- Eaton PS-386 (supercedes Eaton PS-164 Rev 7)

### **Features/Benefits**

- Extended drain, all-season performance
- Outstanding oxidation resistance and thermal stability to minimize sludge and varnish formation
- Improved low-temperature properties for easier shifting in cold weather
- Improved fuel efficiency
- 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

**Premium Full-Synthetic, Fuel-Efficient Heavy-Duty Manual Transmission Fluid, API MT-1; Eaton PS-386 Approved**



## SHP® Synthetic MTF

Typical Properties	
<b>SAE Grade</b>	<b>40</b>
Specific Gravity @ 60°F	0.850
Density, lbs/gal @ 60°F	7.08
Color, Visual	Amber
Flash Point (COC), °C (°F)	238 (460)
Pour Point, °C (°F)	-42 (-44)
Viscosity, Brookfield	
cP @ -40°C	51,900
Viscosity, Kinematic	-----
cSt @ 40°C	95.1
cSt @ 100°C	14.8
Viscosity Index	163

## Health & Safety Information

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

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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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