



Synolec® Transmission Fluid (640)

Premium Synthetic Lubricant Improves Performance of Eaton Roadranger & Other Manual Transmissions

Synolec® Transmission Fluid (640) is a premium full synthetic lubricant designed for fuel efficiency and extended drain intervals while meeting OEM warranty requirements. It is intended for use in manual transmissions that require a non-EP transmission fluid for light- to severe-duty, on- and off-highway equipment operating in a diverse range of environments. Formulated to protect higher torque transmissions coupled with increased horsepower engines, it will prolong transmission life by reducing gear wear and copper corrosion.



Synolec Transmission Fluid meets or exceeds the specifications of several manual transmission OEMs, including Eaton transmissions such as Roadranger, Ultrashift Plus, Fuller Advantage, FR and RT Series.



Beneficial Qualities

Cost-saving

- Safely extends drain service intervals due to outstanding oxidation and thermal stability
- When used with Xamine™ Oil Analysis, can extend intervals up to 500,000 miles
- Uniquely formulated to provide fuel economy improvements

Wear-reducing & long-lasting

- Extends transmission life by preventing copper gear corrosion
- Improves frictional performance and

- extends synchronizer life due to excellent load-carrying, anti-wear and EP properties
- Reduces start-up wear with extreme hot and cold temperature performance
- Improved shear stability allows for the use of a lower viscosity fluid without increased gear wear

OEM compatible

- Meets OEM requirements, including several Eaton transmissions
- Backward compatible; replaces Synolec SAE 50 (650)
- PS-386 supersedes PS-164 rev 7



Synolec® Transmission Fluid

	<u>640</u>
Color	Amber
Color ASTM D1500	1.0
SAE Grade	40
Relative Density @ 60°F/60°F, ASTM D1298	0.850
Viscosity @ 100°C, cSt, ASTM D445	14.80
Viscosity @ 40°C, cSt, ASTM D445	95.10
Viscosity Index ASTM D2270	163
Flash Point °C (°F), (COC),ASTM D92	238 (460)
Pour Point °C (°F), ASTM D97	-42 (-44)

Performance Requirements Met or Exceeded

- API MT-1
- Eaton PS-386
- International TMS-6816
- Mack TO-A Plus
- Meritor O-81
- Navistar MPAPS B-6816 Type II

Typical Applications

- Heavy-duty manual transmissions where extended service intervals and warranties are required
- On-highway light- and heavy-duty trucks, buses and vans
- Off-highway equipment, including construction, mining and agriculture



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