

Transmission Lubricant Data Sheet

Roadranger SAE 50 Synthetic Transmission Lubricant is a specially formulated synthetic lubricant designed for Eaton transmissions. This product is extended drain and severe service capable to protect the higher torque manual and automated mechanical transmissions coupled with high horsepower engines.

Roadranger SAE 50 Synthetic Manual Transmission Lubricant meets all of the performance requirements of:

- Eaton PS-164 rev 7
- API MT-1
- International Truck, TMS 6816
- Mack Truck, TO-A PLUS
- ZF Freedomline (ZF-AS Tronic)
- Volvo 97305
- Mack mDrive / Volvo I-Shift

Roadranger SAE 50 Synthetic Lubricant provides:

- Less friction and drag in transmission improves fuel economy
- Improve component protection
- Easier cold weather shifting
- Extend drain interval (500,000 drain, 750,000 miles warranty)
- All-climate, year-round performance
- Reduce maintenance
- Minimize downtime
- Reduce component wear

**Material Safety Data Sheets for this product are provided with samples or are available on request. Users of this product are urged to study and use this information.*

Typical Properties

CHARACTERISTICS	ROADRANGER SAE 50	TEST METHODS
SAE Grade	50	SAE J300
Viscosity, cSt		ASTM D445
100°C	17.5	
40°C	132	
Viscosity, SUS		ASTM D2161
210°F	89.9	
100°F	678	
Viscosity, cP		ASTM D2983
-40°C	104,000	
Viscosity index	146	ASTM D2270
Pour point, °C (°F)	<-45 (<-49)	ASTM D97
Flash point, °C (°F)	221 (430)	ASTM D92
Foam		ASTM D892
Sequence I	Pass	
Sequence II	Pass	
Sequence III	Pass	
API gravity 15.6/15.6°C	33.0	ASTM D287
Density, g/l, 15.6°C (lbs./gal., 60°F)	860 (7.17)	ASTM D1298
Copper strip corrosion		ASTM D130
3 hrs. @ 100°C (212°F)	1a	
3 hrs. @ 121°C (250°F)	1a	

OEM APPROVALS

OEM APPROVALS	SPECIFICATIONS
Eaton	PS-164rev7
Mack	TO-A plus
International	TMS 6816
Volvo	97305/I-Shift
ZF	Freedomline

BACKED BY
Roadranger
SUPPORT

For spec'ing or service assistance,
call 1-800-826-HELP (4357) or visit
www.eaton.com/roadranger.
In Mexico, call 001-800-826-4357.

Roadranger: Eaton and trusted partners providing the best products and services in the industry, ensuring more time on the road.

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Roadranger SAE 50 Synthetic Transmission Lubricant is available in

- Bulk
- Totes 1900 lbs.
- Drums 375 lbs.
- Keg 110 lbs.
- Pails 33 lbs.
- Gallon case (4 x 1 gallon container) 28.68 lbs.

Note: All data, including the formulations and procedures discussed herein, are believed to be correct. However, this should not be accepted as a guarantee of their accuracy, and confirming tests should be run in your own plant or laboratory. No statement should be construed as a recommendation for any use that would violate any patent rights. Sales of all products are pursuant to terms and conditions included in sales documents. Nothing contained herein shall constitute a guarantee or warranty with respect to the products described or their use.

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