

Shell Spirax® GSX

High performance, synthetic transmission fluid



Shell Spirax® GSX SAE 50 is the latest addition to the Shell Spirax® family of axle and transmission fluids. It is a synthetic heavy-duty transmission fluid specially formulated for extended drain and severe service applications. This fluid is approved as a Roadranger® Genuine Lubricant for use in Eaton extended warranty transmission service.

Applications

- **Heavy-Duty transmissions**
Synchronesh gearboxes, including those with integrated retarders, and medium loaded axle drives where mineral or synthetic non EP gear oils are required.

Performance Features and Benefits

- **All-climate year round performance**
Formulated from synthetic base stocks and additives, which provide fluidity at sub-zero temperatures as well as lubricity and film strength at elevated temperatures.
- **Extended Drain Intervals**
Engineered to provide extended drain capabilities in transmissions such as Eaton, Volvo and ZF.
- **Longer transmission life**
Contains an effective anti-wear system along with corrosion and oxidation inhibitors that protect system components and helps achieve longer transmission life and potential reduced maintenance costs and less down time.
- **Potential for increased fuel economy over the oil drain interval**
The enhanced oxidative stability of the product helps maintain the original viscosity of the fluid, thereby increasing the potential for fuel economy savings over the drain interval.

- **Part of the Shell family of heavy-duty lubricants and coolants.**

Specification and Approvals

API Service Classification	MT-1
Eaton	PS-164 rev 7
Navistar	TMS 6816
Mack Truck	TO-A-Plus
Volvo I-Shift	120,000 km ODI
ZF FreedomLine	

Information

Information on applications not covered in this leaflet may be obtained from your Shell Representative.

Health and Safety

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call 1+800-468-6457 for all of your service needs. All other customers, please call 1+800-840-5737 for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.

Protect the environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Roadranger® is a registered trademark of the Eaton Corporation.

Typical Physical Characteristics

Typical Properties of Shell Spirax® GSX		
	Shell Spirax® GSX SAE 50	Test Methods
Appearance, visual	Light Amber	
SAE Grade	50	SAE J-300
Viscosity, cSt		ASTM D-445
100°C	17.5	
40°C	132	
Viscosity, SUS		ASTM D-2161
210°F	89.9	
100°F	678	
Viscosity, cP		ASTM D-2983
-40°C	104,000	
Viscosity index	146	ASTM D-2270
Pour point, °C (°F)	<-45 (<-49)	ASTM D-97
Flash point, °C(°F)	221 (430)	ASTM D-92
Foam		ASTM D-892
sequence I	pass	
sequence II	pass	
sequence III	pass	
API gravity 15.6/15.6°C	33.0	ASTM D-287
Density, g/l, 15.6°C (lbs./gal., 60°F)	860 (7.16)	ASTM D-1298
Copper strip corrosion		ASTM D-130
3 hrs. at 100°C (212°F)	1a pass	
3 hrs. at 121°C (250°F)	1a pass	