



Previous Name: Shell Spirax GSX 50

# Shell Spirax S6 GME 50

*Premium Synthetic ZF Freedom Line and Eaton Long Drain Manual Transmission Oil*

Shell Spirax S6 GME 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.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & 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**

### Main Applications



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

### Specifications, Approvals & Recommendations

- Eaton PS-164 rev 7
- Navistar TMS 6816
- Mack Truck TO-A-Plus
- Volvo 97305
- ZF FreedomLine
- API Service Classification MT-1

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

### Typical Physical Characteristics

Properties			Method	Shell Spirax S6 GME 50
SAE Viscosity Grade			SAE J-300	50
Appearance			Visual	Light amber
Viscosity	@100°C	cSt	ASTM D-445	17.5
Viscosity	@40°C	cSt	ASTM D-445	132
Viscosity	@210°F	SUS	ASTM D-2161	89.9
Viscosity	@100°F	SUS	ASTM D-2161	678
Viscosity	@-40°C	cP	ASTM D-2983	104000
Viscosity Index			ASTM D-2270	146
Pour Point	°C (°F)		ASTM D-97	<-45 (<-49)
Flash Point	°C (°F)		ASTM D-92	221 (430)
Foam (Sequence I)			ASTM D-892	pass

Properties		Method	Shell Spirax S6 GME 50
Foam (Sequence II)		ASTM D-892	pass
Foam (Sequence III)		ASTM D-892	pass
API gravity	@15.6°C	ASTM D-287	33
Density	@15.6°C g/l	ASTM D-1298	860
Density	@60°F lbs./gal.	ASTM D-1298	7.16
Copper Strip Corrosion (3 hrs)	@100°C (212°F)	ASTM D-130	1a pass
Copper Strip Corrosion (3 hrs)	@121°C (250°F)	ASTM D-130	1a pass

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

### Health, Safety & Environment

#### ■ Health and Safety

Shell Spirax S6 GME 50 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

#### ■ Protect the Environment

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

### Additional Information

#### ■ Advice

Advice on applications not covered here may be obtained from your Shell representative.