



Previous Name: Shell Donax TZ

# Shell Spirax S6 ATF ZM

Premium Heavy Duty Transmission Oil for ZF Long Drain

Shell Spirax S6 ATF ZM Oil is a fully synthetic, premium quality, heavy-duty automatic transmission oil specifically designed in partnership with ZF as a lubricant for the newest generation of ZF-Ecomat - and ZF-Ecolife transmissions. Spirax S6 ATF ZM is the ultimate performance automatic transmission fluid allowing extended drain intervals even under the most severe conditions.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- Exclusive technology**

Shell Spirax S6 ATF ZM has been developed in conjunction with ZF. It uses synthetic base oils and exclusive additive technology providing for the ultimate in transmission performance.

- Maximum oil drain interval potential**

This technology is developed specifically for ZF-Ecomat – and ZF-Ecolife transmission for the longest oil drain intervals under all operating conditions. Changing from mineral or semi-synthetic oils to Spirax S6 ATF ZM will require shorter interim oil drain intervals. Please consult the ZF TE-ML 14 specification manual table 2 (version 2201-2003) for complete details.

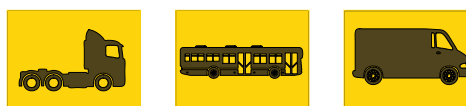
- Extremely low temperature fluidity**

The physical characteristics provided by the additive technology and synthetic base oils allows for extremely low temperature fluidity, further protecting the transmission components from premature wear under extreme operating conditions.

- Shift comfort and maintenance costs**

The combination of these features and benefits translate into smooth shifting comfort and lower maintenance cost due to extended drain intervals and transmission component life.

### Main Applications



- Heavy duty automatic transmissions**

Shell Spirax S6 ATF ZM can also be used in all ZF-Ecomat - and ZF-Ecolife transmissions, and where retarders are used.

### Specifications, Approvals & Recommendations

- ZF TE-ML 04D, 14E, 16N, 16Q, 20F
- MAN 339 Type Z13 (ZF-Ecolife 240.000 - 120.000 km depending on working temperature)
- MAN 339 Type Z4 (ZF-Ecomat 150.000 km)

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

### Typical Physical Characteristics

Properties			Method	Shell Spirax S6 ATF ZM
Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	ISO 3104	61.8
Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	ISO 3104	10.2
Viscosity Index			ISO 2909	153
Density	@15°C	kg/m <sup>3</sup>	ISO 12185	843
Flash Point (COC)		°C	ISO 2592	240
Pour Point		°C	ISO 3016	-51

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 ATF ZM 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.