Technical Data Sheet

Shell **Spirax** *S6 ATF VM Plus*

Premium Technology Voith Long Drain Automatic Transmission Fluid

Shell Spirax S6 ATF VM Plus Oil is a premium performance, automatic transmission fluid specifically designed for use in Voith Turbo transmissions. Spirax S6 ATF VM Plus is recommended for extended oil drain intervals in the DIWA.6 and DIWA.5 transmissions for 180,000km, while it is also suitable for DIWA.3E and older DIWA transmissions at the extended oil drain interval of 120,000km.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **State-of-the-art technology**

  Shell Spirax S6 ATF VM Plus has been developed with state-of-the art additive technology and carefully chosen base oils in conjunction with Voith hardware, to insure the utmost in Voith transmission performance.

- **Maximum oil drain interval potential**

  This technology developed specifically for Voith transmissions, allows up to the maximum oil drain intervals in DIWA.6 and DIWA.5 transmissions depending on operating conditions. It is also suitable for DIWA.3 or older Voith transmissions at an oil drain interval up to 120,000 km. This will allow fleets the versatility to use one product for all Voith heavy-duty automatic transmissions.

  * The oil drain interval might change according to transmission models and operation conditions. Please refer to owner's manual to check the proper interval for your region, according to manufacturer recommendations.

- **Extremely low temperature fluidity**

  The physical characteristics provided by the additive technology and base fluid allows for extremely low temperature fluidity, further protecting the transmission components from premature wear under extreme cold 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 VM Plus is a specifically developed product for Voith Turbo heavy-duty transmissions used in various applications, including public transport, highway and city trucking.

Specifications, Approvals & Recommendations

- ZF TE-ML 4D, 14B, 16L, 17C
- MAN 339 Typ L1
- MAN 339 Typ V3
- MAN 339 Typ Z2
- Voith 150.014524.xx
- Voith US SB 0113/118
- DTFR 13C170
- DTFR 13D130
- MB-Approval 236.93
- Suitable for ZF TE-ML 03D, 09

  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 VM Plus
Kinematic Viscosity	@40^{0}C	mm^2/s	ISO 3104	32.7
Kinematic Viscosity	@100^{0}C	mm^2/s	ISO 3104	7
Viscosity Index			ISO 2909	183
Density	@15^{0}C	kg/m^3	ISO 12185	850
Flash point (COC)		^{0}C	ISO 2592	222
Pour point		^{0}C	ISO 3016	-48

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 VM Plus 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 Safety Data Sheet, which can be obtained from your Shell representative.

- **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.