Technical Data Sheet

Formerly Known As: **Shell Donax TD Low Viscosity**

Shell **Spirax** ***S3 TLV***

Premium, Low Viscosity SAE 5W-20, Tractor Transmission and Hydraulic Oil

Shell Spirax S3 TLV is a specially friction modified “universal tractor transmission oil” (UTTO) designed for use in transmission, differential, hydraulic and oil immersed brakes as well as power takeoff systems in agricultural tractors and off-road equipment. Spirax S3 TLV is designed to provide noise free oil immersed (wet) brake performance combined with reliable, trouble free operation in the other applications.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Special frictional performance and material compatibility**
  Shell Spirax S3 TLV is a highly friction-modified tractor transmission oil that provides smooth and quiet brake operation, particularly in tractors fitted with sintered bronze and graphitic brake linings.
- **Reliable performance**
  Shell Spirax S3 TLV is formulated using additives that have been extensively used in agricultural applications and provide robust reliable operation in a wide range of equipment.

Main Applications



- Suitable for applications allowing SAE 5W-20 oil in transmission, wet brake and hydraulic systems particularly designed for tractors and ancillary equipment.
- Tractors and other equipment using a common fluid to lubricate the transmission, differential and hydraulic systems.
- Caterpillar powershift transmissions requiring a TO-2 Fluid.
- Mobile equipment using Sundstrand hydrostatic transmissions.
- Mobile and industrial hydraulic systems operating over a wide temperature range.
- Please see application list below for vehicle application recommendations.

Specifications, Approvals & Recommendations

- API GL-4
- John Deere: JDM J20D
- Massey Ferguson M 1141
- DANA-OHTM-UTTO-LV 20B-0002
- ZF: 03F
- Obsolete (USA): Caterpillar TO-2; Massey Ferguson M 1135; Case New Holland: MS-1204; MS-1206, MS-1207, MS-1209, MS-1210

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

Typical Physical Characteristics

Properties			Method	Shell Spirax S3 TLV
Kinematic Viscosity	@40°C	mm^2/s	ISO 3104	37
Kinematic Viscosity	@100°C	mm^2/s	ISO 3104	7.5
Density	@15°C	kg/m^3	ISO 12185	870
Flash Point		°C	EN ISO 2592	190
Pour Point		°C	ISO 3016	-45

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 S3 TLV 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 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.