



Previous Name: Shell Tellus Arctic

Shell Tellus **S4 VX**

Special Application Hydraulic Fluid

- **ULTRA LOW TEMPERATURE USE**
- **VERSATILE APPLICATIONS**

Shell Tellus S4 VX is an advanced hydraulic fluid technology designed for use in applications subjected to extremely low ambient temperatures such as mining or forestry applications in arctic or exposed areas.

Performance Benefits

- **Low temperature system operation and efficiency**

The very high viscosity index (VI) of Shell Tellus S4 VX ensures that the hydraulic fluid flows at temperatures where conventional hydraulic fluids would become too thick to allow equipment operation. This allows safe equipment start-up at very low temperatures, with no or minimum heating of the system being required. This delivers increased equipment availability and more efficient operation of the hydraulic system, which in turn, helps users obtain higher productivity from their machines.

- **Extremely wide operating temperature range**

The very high viscosity index of the fresh fluid, coupled with mechanical shear stability, allows operation over a very wide temperature range. All-year round operation with Shell Tellus S4 VX is therefore possible (subject to a maximum operating temperature of 75 °C).

- **Equipment protection**

Shell Tellus S4 VX contains carefully designed ashless (zinc-free) anti-wear additives to help protect critical components of the hydraulic system from wear.

Shell Tellus S4 VX is manufactured with a Quality System assuring the fluid at the Shell plant filling lines meets the requirements of max ISO 4406 21/19/16 class. As recognized by DIN 51524 specification, the oil is exposed to various influences with transport and storage that could effect the cleanliness level..

Applications

- **Low-temperature exterior hydraulic applications**

Shell Tellus S4 VX has been designed for use in all types of hydraulic systems where the operating temperature does not continuously exceed 75 °C.

Shell Tellus S4 VX has been specifically designed for systems that must be started-up at extremely low temperatures, with a subsequent temperature increase during operation, such as mining and forestry machinery.

Note: Operators are recommended to check with the equipment manufacturer to determine whether the viscosity characteristics of Shell Tellus S4 VX are suitable for use in their application.

Approvals, Listings and Endorsements

Shell Tellus S4 VX 32 has the following approval:

Komatsu Mining (operation in cold and arctic conditions, -50 to 35 °C).

Shell Tellus S4 VX 32 is listed or endorsed by:

Frigoscandia (low temperature hydraulic systems)

Komatsu (hydraulic systems operating in cold and arctic conditions, -50 to 35 °C).

Deitz Company Ltd (servo valve and proportional valve test equipment).



Health and Safety

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

Compatibility

Shell Tellus S4 VX fluids are suitable for use with most hydraulic pumps.

Fluid Compatibility

Shell Tellus S4 VX fluids are compatible with most other mineral oil based hydraulic fluids. However, mineral oil hydraulic fluids should not be mixed with other fluid types (e.g. environmentally acceptable or fire-resistant fluids).

Seal and Paint Compatibility

Shell Tellus S4 VX fluids are compatible with seal materials and paints normally specified for use with mineral oils.

Protect the Environment

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

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

Typical Physical Characteristics

Shell Tellus S4 VX	32
ISO Fluid Type (ISO 6743-4)	HV
Kinematic Viscosity (ASTM D 445) at:	
-40°C cSt	2624
40°C cSt	33.8
100°C cSt	9.93
Viscosity Index (ISO 2909)	300
Density @ 15°C kg/m³ (ISO 12185)	866
Flash Point - Cleveland Open Cup °C (ISO 2592)	>100
Pour Point °C (ISO 3016)	-60

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

For more information please contact your Shell Marine Products Representative or refer to the Port Services Guide on our website: www.shell.com/marine. Shell is not liable for application/advice errors when Product Data Sheets/Material Safety Data Sheets are obtained from non-official sources/sites other than the official website as shown above.



Viscosity - Temperature Diagram for Shell Tellus S4 VX



