



Shell Tellus S2 VK 22

- Extra Protection
- Versatile Applications
- Cold Climate

Industrial hydraulic fluid for extra wide temperature range

Shell Tellus S2 VK fluids are high performance hydraulic fluids designed to provide excellent viscosity control under severe mechanical stress and, with an extra high viscosity index, these oils can help provide outstanding protection and performance in most mobile equipment and other applications subjected to wide ranges of ambient or operating temperatures found in colder climates.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Long life fluid - maintenance saving**

Shell Tellus S2 VK fluid is designed to extend equipment maintenance intervals by resisting thermal and chemical breakdown. This helps to minimize sludge formation and helps provide better reliability and system cleanliness.

Shell Tellus S2 VK fluid also has good stability in the presence of moisture, which ensures long fluid life and reduces the risk of corrosion and rusting, particularly in moist or humid environments.

Highly shear stable viscosity modifiers help minimize variations in the fluid properties throughout the fluid drain interval.

- **Outstanding wear protection**

Proven zinc-based anti-wear additives are incorporated to be effective throughout the range of operating conditions, including low load and severe duty high load conditions. The highly shear stable viscosity index improver used in Shell Tellus S2 VK helps retain the critical high temperature viscosity to protect pumps under normal operating conditions whilst helping fluidity at low temperatures for protection on system cold start.

- **Maintaining system efficiency**

The extended temperature range capability of Shell Tellus S2 VK allows efficient operation of mobile equipment from cold start to normal operating conditions.

Excellent filterability and high performance water separation, air release and anti-foam characteristics all help contribute to maintaining or enhancing the efficiency of hydraulic systems.

The advanced additive system in Shell Tellus S2 VK, in combination with excellent cleanliness helps reduce the impact of contaminants on filter blocking, allowing both extended filter life and use of finer filtration for extra equipment protection.

Shell Tellus S2 VK fluids are formulated for fast air release without excessive foaming to help efficient hydraulic power transfer and minimise fluid and equipment impacts of cavitation-induced oxidation that can shorten fluid life.

Main Applications



- **Mobile/external hydraulic applications**

Hydraulic and fluid power transmission systems in exposed environments can be subject to wide variations in temperature. The high viscosity index of Shell Tellus S2 VK helps deliver responsive performance from cold start conditions to full load, severe duty operation.

- **Precision hydraulic systems**

Precision hydraulic systems require excellent control of fluid viscosity over the operating cycle. Shell Tellus S2 VK provides greater temperature-viscosity stability compared to ISO HM fluids that can help improve the performance of such systems.

For more severe operating conditions, longer fluid life and enhanced efficiency, the Shell Tellus "S3" and "S4" ranges offer additional performance benefits.

Specifications, Approvals & Recommendations

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

Compatibility & Miscibility

- **Compatibility**
Shell Tellus S2 VK fluids are suitable for use with most hydraulic pumps. However, please consult your Shell Representative before using in pumps containing silver plated components.
- **Fluid Compatibility**
Shell Tellus S2 VK 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 & Paint Compatibility**
Shell Tellus S2 VK fluids are compatible with seal materials and paints normally specified for use with mineral oils.

Typical Physical Characteristics

Properties			Method	Shell Tellus S2 VK 22
ISO Fluid Type			ISO 3448	HV
Kinematic Viscosity	@40°C	cSt	ASMT D445	22
Kinematic Viscosity	@100°C	cSt	ASTM D445	5.5
Dynamic Viscosity	@-40°C	cP	ASTM D2983	9 884
Viscosity index			ISO 2909	157
Flash Point (Cleveland Open Cup)		°C	ISO 2592	167
Pour Point		°C	ISO 3016	-54

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

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://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.