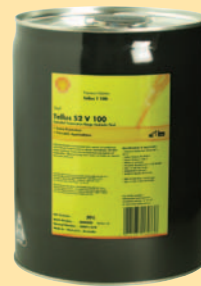


# SHELL TELLUS S2 V

INDUSTRIAL HYDRAULIC FLUID FOR WIDE TEMPERATURE RANGE

PREVIOUSLY SHELL TELLUS T

## DESIGNED TO MEET CHALLENGES



Shell Tellus S2 V fluids are high performance hydraulic fluids that use Shell's unique patented technology with excellent viscosity control under both severe mechanical stress and across a wide range of temperatures. They provide outstanding protection and performance in most mobile equipment and other applications subjected to wider ranges of ambient or operating temperatures.

## PERFORMANCE FEATURES

### LONG FLUID LIFE – MAINTENANCE SAVING

- Shell Tellus S2 V fluids help extend equipment maintenance intervals by resisting thermal and chemical breakdown. This minimises sludge formation and provides excellent performance in the industry standard ASTM D 943 Turbine Oil Stability Test (TOST).
- Shell Tellus S2 V fluids also have 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 minimise 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. Outstanding performance in a range of piston and vane pump tests, including the tough Denison T6C (dry and wet versions) and the demanding Vickers 35VQ25, demonstrates how Shell Tellus S2 V fluids can help system components last longer.

### MAINTAINING SYSTEM EFFICIENCY

- The extended temperature range capability of Shell Tellus S2 V allows efficient operation of mobile equipment from cold start to normal operating conditions.
- Superior cleanliness, 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 unique additive system in Shell Tellus S2 V, in combination with superior cleanliness (meeting the requirements of max ISO 4406 21/19/16 class, ex Shell filling lines. As recognised by DIN 51524 specification, the oil is exposed to various influences with transport and storage that could affect the cleanliness level) 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 V 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.

## APPLICATIONS

### MOBILE/EXTERIOR 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 V 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 V 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.

### COMPATIBILITY

- Shell Tellus S2 V 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 V 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 S2 V fluids are compatible with seal materials and paints normally specified for use with mineral oils.

## SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

### HAS THE APPROVAL OF:

- Denison Hydraulics: (HF-0, HF-1, HF-2)
- Cincinnati Machine: P-68 (ISO 32), P-70 (ISO 46), P-69 (ISO 68)
- Eaton Vickers: M-2950 S, I-286 S.

### MEETS OR EXCEEDS THE REQUIREMENTS OF:

- Swedish Standard (SS): 15 54 34 AM
- ISO: 11158 (HV fluids)
- AFNOR: NF-E 48-603
- ASTM: 6158-05 (HV fluids)
- DIN: 51524 Part 3 HVL P type
- GB: 111181-1-94 (HV fluids).

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

## TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	15	32	46	68	100
ISO Oil Type	HV	HV	HV	HV	HV
Kinematic Viscosity (ASTM D 445)					
@ -20°C mm <sup>2</sup> /s	350	1300	2350		
@ 40°C mm <sup>2</sup> /s	15	32	46	68	100
@ 100°C mm <sup>2</sup> /s	3.8	6.1	7.9	10.5	14.0
Viscosity Index (ISO 2909)	142	143	143	142	142
Density @ 15°C kg/m <sup>3</sup> (ISO 12185)	872	872	872	877	880
Flash Point °C (COC) (ISO 2592)	170	210	225	225	225
Pour Point °C (ISO 3016)	-42	-39	-36	-30	-30