# Shell Tellus Oils High performance hydraulic oil



Shell Tellus Oils are premium quality, solvent refined, high viscosity index mineral oil based fluids generally acknowledged to be the 'standard-setter' in the field of industrial hydraulic and fluid power lubrication.

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# **Applications**

- Industrial hydraulic systems
- Mobile hydraulic fluid power transmission systems
- Marine hydraulic systems

# **Performance Features and Benefits**

• Thermal stability

Thermally stable in modern hydraulic systems working in extreme conditions of load and temperature. Tellus Oils are highly resistant to degradation and sludge formation therefore improving system reliability and cleanliness.

## • Oxidation resistant

Resist oxidation in the presence of air, water and copper. Turbine Oil Stability Test (TOST) results show outstanding performance for Tellus Oils; low acidity, low sludge formation, low copper loss; therefore extending oil drain interval life and minimising maintenance costs.

# • Hydrolytic stability

Tellus Oils have good chemical stability in the presence of moisture, which ensures long oil life and reduces the risk of corrosion and rusting.

- **Outstanding anti-wear performance** Proven anti-wear additives are incorporated to be effective throughout the range of operating conditions, including low 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.
  - Tellus Oils help system components last longer.

# • Superior filterability

Tellus Oils are suitable for ultra-fine filtration, an essential requirement in today's hydraulic systems. Unaffected by the usual products of contamination, such as water and calcium, which are known to cause blockage of fine filters. Customers can use finer filters, therefore achieving all the benefits of having in use cleaner fluids. Low friction

Tellus Oils possess high lubrication properties and excellent low friction characteristics in hydraulic systems operating at low or high speed. Prevents stick-slip problems in critical applications enabling very fine control of machinery.

• Excellent air release and anti-foam properties

Careful use of additives to ensure quick air release without excessive foaming. Quick air release helps minimise cavitation and slow oxidation, maintaining system and fluid performance.

# • Good water separation

Good water separation properties (demulsibility). Resists the formation of water-in-oil emulsions and prevents consequent hydraulic system and pump damage.

All round versatility
 Tellus Oils are suitable for a wide range of
 other industrial applications.

# **Specifications and Approvals**

Tellus Oils have the following approvals:

CINCINNATI P-68 (ISO 32) CINCINNATI P-70 (ISO 46) CINCINNATI P-69 (ISO 68) DENISON HF-0 DENISON HF-1 DENISON HF-2 Eaton (Vickers) M-2950 S Eaton (Vickers) I-286 S

Tellus Oils meet the requirements of:

ISO 11158 HM GM LS/2 AFNOR NF-E 48-603 Bosch Rexroth Ref 17421-001 and RD 220-1/04.03 Swedish Standard SS 15 54 34 AM

# Compatibility

Tellus Oils are compatible with most pumps. However, please consult your Shell Representative before using in pumps containing silver plated components

# Seal & Paint Compatibility

Tellus Oils are compatible with all seal materials and paints normally specified for use with mineral oils.

## Health & Safety

(IP 15)

Guidance on Health and Safety are available on the appropriate Material 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.

#### Shell Tellus Oil 100 22 32 37 46 68 ISO Oil Type ΗM ΗM HM ΗM ΗM HM **Kinematic Viscosity 0℃** 180 338 440 580 1040 1790 cSt 40°C cSt 22 32 37 46 68 100 100°C 4.3 5.4 5.9 6.7 8.6 11.1 cSt (IP 71) **Viscosity Index** 100 99 99 98 97 (IP 226) Density @ 15°Ckg/l 0.866 0.875 0.875 0.879 0.886 0.891 (IP 365) Flash Point °C 204 209 212 218 223 234 (Pensky-Martens Closed Cup) (IP 34) **Pour Point** °C -30 -30 -30 -30 -24

# **Typical Physical Characteristics**

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

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