

# Shell Tellus Oils TX

## *Multigrade hydraulic oils*



Shell Tellus Oils TX are advanced performance, anti-wear, hydraulic oils designed for applications subject to a wide range of temperatures or where small variations in viscosity with temperature are required.

They are based on a blend of specially selected high viscosity index base oils and additive technology unique to Shell. Special 'viscosity index' improvers guarantee excellent shear-stable 'stay-in-grade' properties.

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### Applications

- Hydraulic and fluid power transmission systems subjected to wide variations in temperature or where low viscosity change with fluctuating temperature is required.

Certain critical hydraulic systems can only tolerate small variations in viscosity with fluctuating temperature if efficiency and responsiveness are to be maintained. Shell Tellus Oils TX are specially built to cater for these conditions.

### Performance Features

- **Very low viscosity variation with temperature**  
Advanced viscosity index technology minimises the oil's variation in viscosity with changes in temperature and provides good pumpability at low temperatures.
- **High shear stability**  
The 'VI' improver is highly resistant to mechanical stress. The maintenance of 'stay-in-grade' characteristics ensures effective lubrication and long oil life.
- **Outstanding anti-wear performance**  
Proven anti-wear additives are effective in all operating conditions, including low and severe duty, high load situations.
- **Excellent filterability**  
Minimal tendency to cause filter blockage in the presence of contaminants such as water and calcium.
- **Oxidation resistant**  
Resist the formation of acidic products and sludge, even at high working temperatures.
- **Corrosion protection**  
Long term protection against corrosion of both ferrous and non-ferrous metals.
- **Rapid air release and anti-foam properties**  
Quick air release without excessive foaming.

### Performance Level

Shell Tellus Oils TX have been tested and approved to exceed the following industry requirements:

Vickers M-2950-S (Mobile systems)  
I-286-S (Industrial systems)  
DIN 51 524 (part 3)

### Compatibility

The anti-wear additive technology used in Shell Tellus Oils TX is based upon zinc which, although ideal for most hydraulic pumps, should not be used in those of older design containing silver-plated components. Shell Tellus Oils S or R, depending on the severity of duty, should be used for these applications.

### Seal & Paint Compatibility

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

### Health & Safety

Shell Tellus Oils TX are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet

### Protect the environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

## Typical Physical Characteristics

Shell Tellus Oil	TX15	TX32	TX46	TX68
ISO Oil Type	HV	HV	HV	HV
ISO Viscosity Grade (ISO 3448)	15	32	46	68
Kinematic Viscosity @ -30°C cSt -20°C cSt 40°C cSt (IP 71)	1800 - 15	39 - 32.4	- - 46	- 5000 68
Viscosity Index (IP 226)	180	192	180	180
Density @ 15.5°C g/cm <sup>3</sup> (IP 365)	0.840 - 0.900	0.875 - 0.900	0.840 - 0.900	0.840 - 0.900
Flash Point °C (Pensky-Martens Closed Cup) (IP 34)	125	178	180	180
Pour Point °C (IP 15)	-42	-45	-39	-36

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