

Shell TELLUS® Oils T

Premium hydraulic oil for wide temperature ranges

Premium performance, anti-wear hydraulic oils which incorporate a special viscosity index improver additive to enhance their viscosity/temperature characteristics.

Performance Features and Benefits

- **Very low viscosity variation with temperature**
Special viscosity index technology minimizes the oil's variation in viscosity with changes in temperature and provides good pumpability at low temperatures. These features are particularly beneficial in hydraulic applications subjected to extremes of temperature.
- **High shear stability**
The "VI" improver type is highly resistant to mechanical stress.
- **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**
Resists the formation of acidic products and sludge, even at high working temperatures.
- **Corrosion protection**
Provides long term protection against corrosion of both ferrous and non-ferrous metals.
- **Rapid air release and anti-foam properties**
Provide air release without excessive foaming.

Main 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. Hydraulic oils, such as Shell TELLUS® Oil T, which exhibit multigrade viscosity characteristics may be used to particular advantage in these circumstances.

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

Compatibility and Miscibility

Compatibility

The anti-wear additive technology used in Shell TELLUS® Oils T 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 STX should be used for these applications.

Seal and Paint Compatibility

Shell TELLUS® Oils T are compatible with all seal materials and paints normally specified for use with mineral oils.

Specifications, Approvals, and Recommendations

Shell TELLUS® Oils T meets the performance requirements of ISO 11158 HV Type.

Handling and Safety Information

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

Protect the Environment

Do not discharge into drains, soil, or water.

Typical Physical Characteristics

Shell TELLUS® Oil T		15	22	32	46	68	100	
ISO Oil Type		HV	HV	HV	HV	HV	HV	
Kinematic Viscosity								
@ 0°C	cSt	75	-		310	-	960	
@ 20°C	cSt	30	-	71	105	-	268	
@ 40°C	cSt	15	22	32	46	68	100	
@ 100°C	cSt	3.8	4.9	6.4	8.2	10.9	14.7	
Viscosity Index		150	150	150	150	150	150	
Density	@ 15°C	kg/L	0.871	0.872	0.872	0.872	0.877	0.889
Flash Point (PMCC)		°F	320	349	338	410	446	349
Pour Point		°F	-44	-44	-44	-38	-33	-22

These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.