

Shell TELLUS® Oils S

Zinc-free hydraulic oils for severe duty

Shell TELLUS® Oils S are 'top-tier,' anti-wear hydraulic oils. Based on advanced 'zinc and chlorine free' technology, Shell TELLUS® Oils S are formulated to ensure exceptional performance in hydraulic fluid power transmission systems subjected to severe duty.

Performance Features and Benefits

- Outstanding oil life
- Promotes long component life
- Lower ecological impact

Many piston pumps utilize brass components and in particular brass slippers which fit onto the heads of steel pistons and slide on a steel surface. These bronze slippers are usually the items of wear and an oil's performance is normally evaluated by the weight loss of bronze and the loosening of the fit on the pistons, referred to as "slipper fit." Many anti-wear hydraulic oils permit either considerable wear, if the pumps are highly loaded, or in extreme cases result in pump failure by the slippers detaching themselves from the pistons.

Shell TELLUS® Oils S give extremely low wear rates of the brass components in the Denison P-46 pump; the most severe standard industry test for this performance aspect.

Main Applications

- Primary application in industrial, marine and mobile hydraulic and fluid power transmission systems.

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

Typical Physical Characteristics

Shell TELLUS® Oil S			32	46	68
ISO Oil Type			HM	HM	HM
Kinematic Viscosity	@ 0°C	cSt	336	576	1038
	@ 20°C	cSt	90	135	220
	@ 40°C	cSt	32	46	68
	@ 100°C	cSt	5.4	6.8	8.7
Viscosity Index			99	98	97
Density	@ 15°C	kg/L	0.872	0.876	0.883
Flash Point (PMCC)		°F	405	424	432
Pour Point		°F	-22	-22	-22

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

Specifications, Approvals, and Recommendations

Shell TELLUS® Oil S have been tested and approved to exceed the following industry requirements:

Denison HF-0
 Rexroth
 Vickers M-2950-S (Mobile systems)
 1-286-S (Industrial Systems)
 Cincinatti Milacron P68, P69, P70
 ISO 11158

Additional Information

Oil Seal and Paint Compatibility

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

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.