



Shell Tellus EE™ Oil

Synthetic Hydraulic Fluids to help Energy Efficiency

Shell Tellus EE hydraulic fluids are designed to help users improve the energy efficiency of their hydraulic systems without compromising the protection of the system or maintenance procedures of their equipment and operations. Shell Tellus EE has been found to improve energy efficiency in applications such as plastic injection moulding and metal pressing by an average of 8%¹. In addition, Shell Tellus EE is also designed to help equipment service life and lower maintenance costs through providing outstanding wear protection and long oil life capability.

Applications

Industrial hydraulic systems, particularly those systems with a high intensity of hydraulic power usage such as injection moulding and high pressure metal pressing operations. Shell Tellus EE is also suitable for use in mobile hydraulic fluid power transmission systems and in marine applications.

Performance Features and Benefits

- **Energy efficiency**

With the help of sophisticated system modelling, Shell Tellus EE has been designed to improve the energy efficiency of hydraulic systems through a specially developed formulation that balances the flow, frictional and power transmission characteristics of the fluid. Field evaluation has shown, on average, 8%¹ energy efficiency improvements in such applications.

- **Reduce maintenance costs**

Shell Tellus EE offers outstanding performance in all the properties relevant to a hydraulic fluid such as hydraulic pump wear and resistance to breakdown in contact with water or other contaminants. Together with an oil life that exceeds the 10,000 hours maximum duration that can be measured in the industry Turbine Oil Stability Test (TOST), Shell Tellus EE offers you the capability to significantly extend oil change intervals, which can help reduce overall maintenance costs.

- **Greater equipment protection**

In addition to meeting standard industry and OEM specification requirements, Shell Tellus EE provides an exceptional level of additional protection. For instance, Shell Tellus EE results in up to 68% less wear in the Vickers V104C pump wear test than the 50 mg pass/fail limits for many OEMs such as Cincinnati Machine (P-specification), Bosch-Rexroth (RD 90220-1) and Eaton (Vickers).

Together with outstanding protection against sludge build up, valve sticking and corrosion, it can help prolong the life of your hydraulic equipment.

Specifications and Approvals

Shell Tellus EE fluids have the following approvals:

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

Shell Tellus EE fluids meet the requirements of:

ASTM D6158 HM
ISO 11158 HM Type
Swedish Standard SS 15 54 34 AM
AFNOR NF-E 48-60

¹ Average of Shell and end-user evaluations. Actual energy savings may vary depending on application, current oil used, maintenance procedures, condition of equipment, operating conditions and intensity of hydraulic power usage



Compatibility

Shell Tellus EE fluids are compatible with most pumps and with mineral hydraulic oils. However, please consult your Shell Representative before using in pumps containing silver plated components.

Seal & Paint Compatibility

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

Health & Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell Representative.

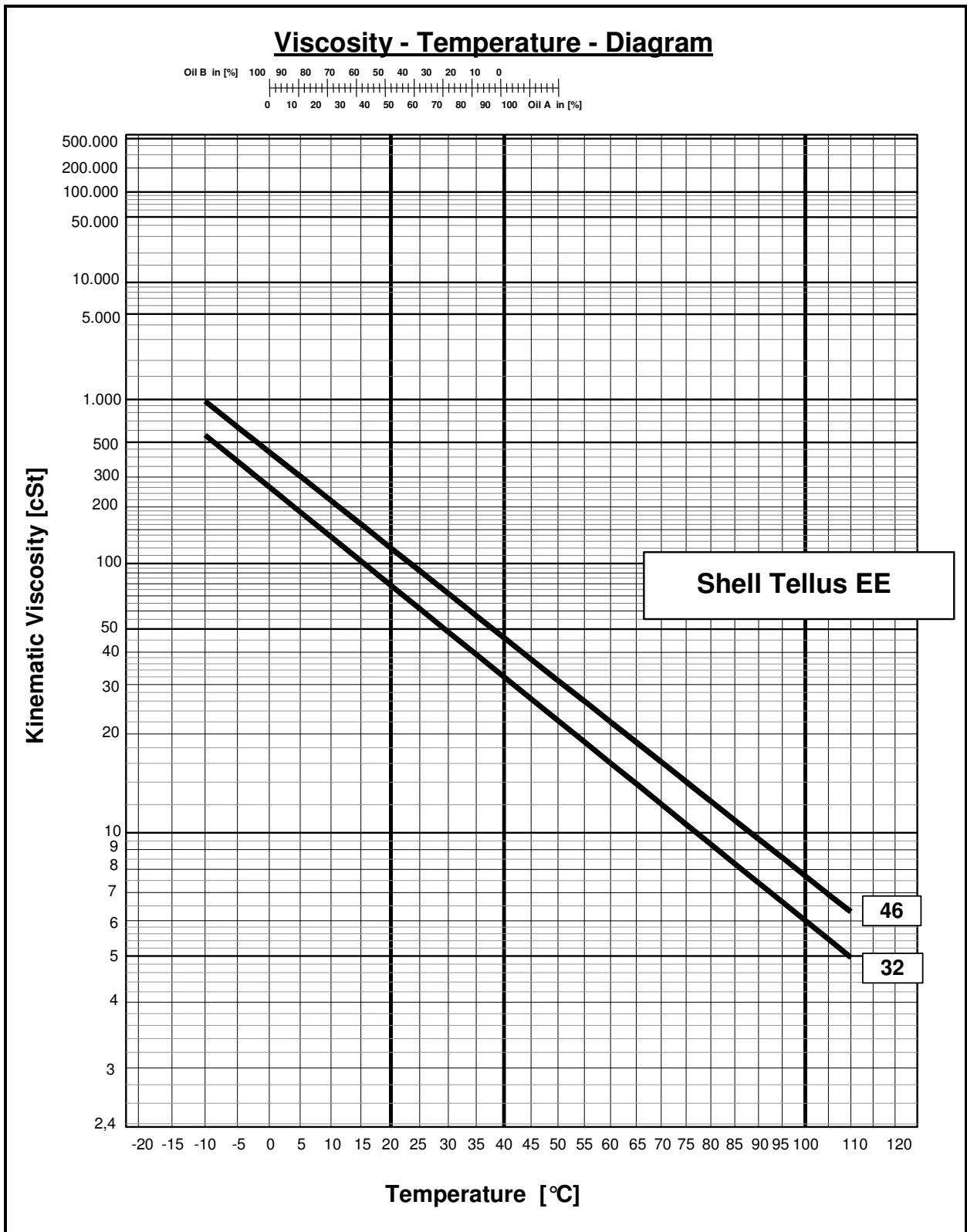
Protect the environment

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

Typical Physical Characteristics

Shell Tellus Fluid EE™ Oil	32	46
ISO Oil Type	HM	HM
Kinematic Viscosity @ 0°C (32°F), cSt	260	450
@ 40°C (104°F), cSt	32	46
@ 100°C (212°F), cSt (ASTM D445)	6.0	7.7
Viscosity Index (ISO 2909)	135	135
Density @ 15°C, kg/l (ASTM D1298)	0.825	0.832
Flash Point (COC), °C (°F) (ASTM D92)	230 (446)	250 (482)
Pour Point, °C (°F) (ASTM D97)	-54 (-65.2)	-51 (-59.8)

These characteristics are typical of current production. While future production will conform to Shell's specification, variations in these characteristics may occur. The information contained herein is subject to change without notice.



For technical assistance or other inquiries, please call 1-800-237-8645