Shell Tellus Arctic 32

Hydraulic fluid for extremely low temperatures

Shell Tellus Arctic 32 is a zinc-free hydraulic fluid designed especially for use in outdoor equipments, like the mining and forestry machinery, operating at very low temperatures.

Applications

- **Tellus Arctic 32** has been designed for use in all types of hydraulic systems where the operating temperature does not continuously exceed 75 °C.
- The major application of Tellus Arctic 32 is in systems that must be started up at extremely low temperatures with a subsequent temperature increase during operation.
- **Mining and Forestry machinery** is a typical example.

In order to evaluate more exactly the operating temperature range the hydraulic system manufacturer has to be consulted to obtain indication on the maximum and minimum kinematic viscosities admitted.

Performance Features and Benefits

- **Low Temperature start up**
  The viscosity at very low temperature allows to start up hydraulic systems with none or minimum heating of the system therefore saving start up time. Users can obtain higher productivity from their machines.

- **Extremely wide operating temperature range**
  The very high viscosity index of the fresh oil as well as its shear stability allows to accept significant increases in the working temperature of the fluid thus potentially making possible an all year around usage.

- **Outstanding antiwear performances**
  Tellus Arctic includes a carefully selected antiwear additive that has demonstrated the ability to protect from wear the most sensible part of the hydraulic system.

Compatibility

Tellus Arctic is compatible with most pumps and with all seal materials and paints normally specified for use with mineral oils.

Advice

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

Health and 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 authorised collection point. Do not discharge into drains, soil or water.

Typical Physical Characteristics

<table>
<thead>
<tr>
<th>Tellus Arctic</th>
<th>Kinematic Viscosity</th>
<th>ASTM D 445</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>at 40 °C mm²/s</td>
<td>33,6</td>
</tr>
<tr>
<td></td>
<td>at 100 °C mm²/s</td>
<td>9,89</td>
</tr>
<tr>
<td></td>
<td>at -30 °C mm²/s</td>
<td>&lt; 1000</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>ISO 2909</td>
<td>&gt; 300</td>
</tr>
<tr>
<td>Density at 15 °C kg/m³</td>
<td>ISO 12185</td>
<td>886</td>
</tr>
<tr>
<td>Flash Point COC °C</td>
<td>ISO 2592</td>
<td>&gt; 100</td>
</tr>
<tr>
<td>Pour Point °C</td>
<td>ISO 3016</td>
<td>- 60</td>
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</tbody>
</table>

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