SANDVIK PERFORMANCE FLUIDS
LONG-LIFE AXLE OIL
SANDVIK OA85W140

**DESCRIPTION**
Sandvik OA85W140 is a mineral universal gear oil for use in manual transmissions and axle gearboxes in mining and construction equipment.

**APPLICATION**
Sandvik OA85W140 is miscible and compatible with conventional branded gear oils. However, mixing with other gear oils should be avoided in order to fully utilize the product’s benefits. A complete oil change is recommended when converting to Sandvik OA85W140. For information on product safety and proper disposal please refer to the latest Material Safety Data Sheet.

**KEY FEATURES**
- Sandvik OA85W140 provides improved lubrication and excellent protection against wear.
- Sandvik OA85W140 creates a stable lubricant film capable of withstanding severe loads.
- Due to the significant shear stability of Sandvik OA85W140, the oil remains within the OA85W140 viscosity range even after very long periods of use.
- The good corrosion protection provided by Sandvik OA85W140 protects against rust and attacking of non-ferrous metals.
SPECIFICATIONS

API GL-4/GL-5

RECOMMENDATIONS

MIL-L-2105 D
VOLVO 97310

TYPICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Property</th>
<th>Reference</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density at 15 °C</td>
<td>DIN 51757</td>
<td>0.908 g/ml</td>
</tr>
<tr>
<td>Colour</td>
<td>DIN ISO 2049</td>
<td>5 ASTM</td>
</tr>
<tr>
<td>Flash Point, CoC</td>
<td>DIN ISO 2592</td>
<td>230 °C</td>
</tr>
<tr>
<td>Pour Point</td>
<td>DIN ISO 3016</td>
<td>-18 °C</td>
</tr>
<tr>
<td>Neutralization Number</td>
<td>FLV-N7 / DIN 51558</td>
<td>1.1 mgKOH/g</td>
</tr>
<tr>
<td>Foaming Tendency Seq. I/II/III</td>
<td>ASTM D 892</td>
<td>0/0 ; 0/0 ; 0/0 ml</td>
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<tr>
<td>Dynamic Viscosity at -12°C</td>
<td>DIN 51398</td>
<td>71,000 mPas</td>
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<tr>
<td>Kinematic Viscosity at 40°C</td>
<td>DIN 51562-1</td>
<td>427 mm²/s</td>
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<tr>
<td>Kinematic Viscosity at 100°C</td>
<td>DIN 51562-1</td>
<td>30.7 mm²/s</td>
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<td>Viscosity Index</td>
<td>DIN ISO 2909</td>
<td>98</td>
</tr>
</tbody>
</table>
FZG PITTING TEST

Sandvik

Minimum

Hours before pitting occurs

0 50 100 150 200 250

+~238% performance reserve.
This test determines the pitting resistance in the gears teeth, which is provided by the oil. The fluid must protect the teeth from pitting for at least 90h - our technology runs for 215h before pitting occurs.

FZG WEAR TEST

Sandvik

Maximum

Wear in mg

0 100 200 300 400 500

~95% performance reserve.
This test determines what is typically regarded as wear on the gears. It runs in 3 stages at different temperatures at low speed what is typically for off-highway applications. At the beginning and end of test the parts are weighed - difference is loss of material caused by wear. Max accepted loss is 400mg, while our technology shows on 21mg of wear.