



# SANDVIK PERFORMANCE FLUIDS

## LONG-LIFE HYDRAULIC OIL

### SANDVIK OH32-OH150

TECHNICAL SPECIFICATION

#### DESCRIPTION

Proper function and operating safety of hydraulic systems are largely influenced by the quality of the hydraulic medium. In addition to the task of transferring forces, the operating fluid must seal, cool and lubricate. Since hydraulic oils are exposed to high stress due to the operating conditions, they have to fulfil a large number of requirements. The oils of the Sandvik OH series are formulated on the basis of highly ageing-resistant solvates containing additives that increase the aging resistance. The products of the Sandvik OH series are zinc-containing HVLP hydraulic and general lubricating oils according to DIN 51524-3. Mineral oil-based, demulsifying.

#### APPLICATION

Sandvik OH high-quality products are used as hydraulic oil and as lubricating oil for various applications like bearings and gear boxes, even when a high viscosity index and good load carrying capacity is required. Especially recommended for applications where a low start-up viscosity at low temperatures and a higher viscosity at higher temperatures is required. Particularly suited to all applications in mobile hydraulic systems that require the use of an HVLP oil according to DIN 51524-3 with a wide service temperature range.



#### KEY FEATURES

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Low foaming tendency

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Good air release properties

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High ageing resistance

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Good corrosion protection

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Very good viscosity-temperature-behaviour

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Very good wear protection

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High viscosity index

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Wide service temperature range

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Good shear stability

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## SPECIFICATIONS

The products meet or exceed the requirements according to

DIN 51524-3, HVLP

ISO 6743-4, HV

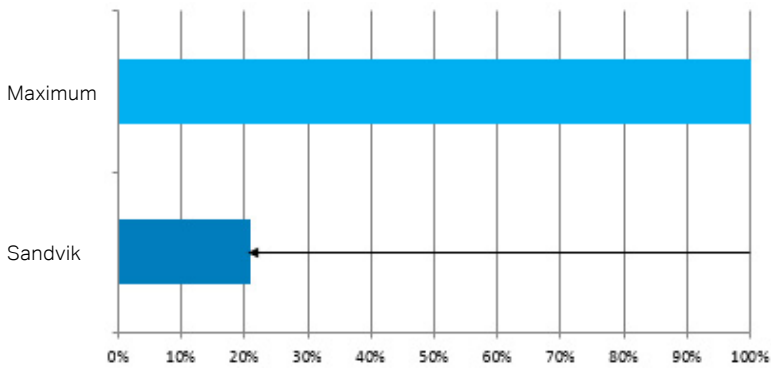
ISO 11158

## TYPICAL CHARACTERISTICS

Product name		OH32	OH46	OH68	
Properties	Unit				Test method
ISO VG		32	46	68	DIN 51519
Kinematic viscosity					DIN EN ISO 3104
at -20 °C	mm <sup>2</sup> /s	1858	3486	-	
at 0 °C	mm <sup>2</sup> /s	233.4	401.6	618.9	
at 40 °C	mm <sup>2</sup> /s	32	46	68	
at 100 °C	mm <sup>2</sup> /s	6.3	8.1	11.0	
Viscosity index	-	152	150	153	DIN ISO 2909
Density at 15 °C	kg/m <sup>3</sup>	871	879	868	DIN 51757
Flashpoint (COC)	°C	178	186	240	DIN ISO 2592
Pourpoint	°C	-48	-45	-36	DIN ISO 3016
Neutralisation number	mgKOH/g	0.5	0.5	0.5	DIN 51558-2
FZG mechanical gear test rig FZG A/8.3/90	failure load stage	11	11	11	DIN ISO 14635-1

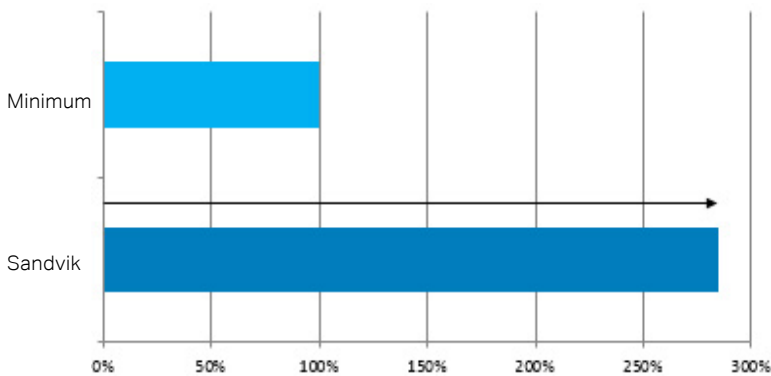
Product name		OH100	OH150	
Properties	Unit			Test method
ISO VG		100	150	DIN 51519
Kinematic viscosity				DIN EN ISO 3104
at -20 °C	mm <sup>2</sup> /s	-	-	
at 0 °C	mm <sup>2</sup> /s	-	-	
at 40 °C	mm <sup>2</sup> /s	100	150	
at 100 °C	mm <sup>2</sup> /s	13.5	17.7	
Viscosity index	-	140	130	DIN ISO 2909
Density at 15 °C	kg/m <sup>3</sup>	871	881	DIN 51757
Flashpoint (COC)	°C	240	260	DIN ISO 2592
Pourpoint	°C	-24	-24	DIN ISO 3016
Neutralisation number	mgKOH/g	0.5	0.5	DIN 51558-2
FZG mechanical gear test rig FZG A/8.3/90	failure load stage	11	11	DIN ISO 14635-1

**VICKERS V104C PUMP TEST**



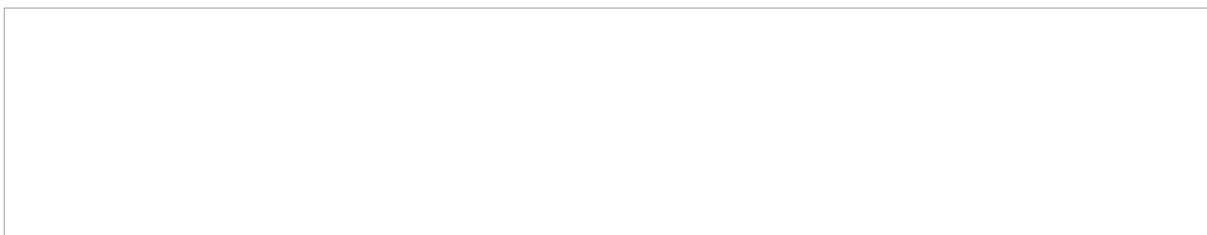
Sandvik OH68 shows up to 80 % less wear than the maximum allowed in industry-standard hydraulic pump test.

**OXIDATION STABILITY / LIFETIME TEST**



Sandvik OH68 reaches up to 300% of the minimum lifetime compared to Standard hydraulic fluids.

\* Always refer to the installation manuals



Sandvik Mining reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.