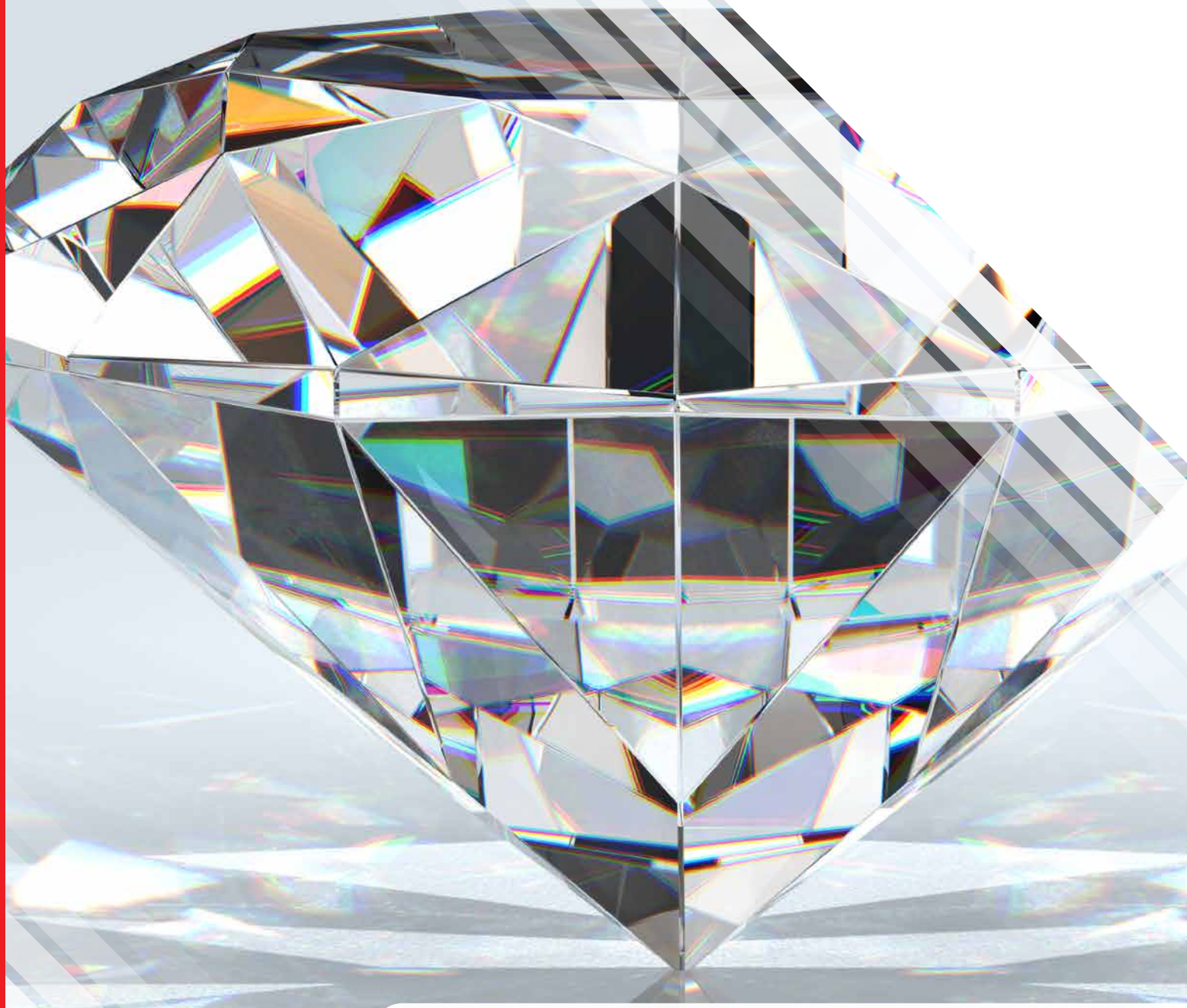
oelheld®
innovative fluid technology



HiPure HLPD 68

High-precision spindle oil

Human Technology
for man, environment
and machines
HUTEC

Fine filtered special hydraulic fluid Purity class 15/13/10 according to ISO 4406

Application
Fine filtered special hydraulic fluid with detergent (cleaning) properties for hydrostatic systems.

Description
HiPure HLPD 68 is a fine filtered, zinc-free, paraffin-based special fluid with additives for an excellent wear protection which contributes to the aging resistance and to the improvement of the gliding performance. This product has excellent detergent and dispersing properties. Further it is characterized by its outstanding corrosion protection.

Field of application
Due to the guaranteed and high purity grade this hydraulic fluid is used for the lubrication of bearings in engines and high-frequency spindles.

Specifications
Hydraulic fluid HLPD according to DIN 51 524-2:1985 and DIN 51502,

Purity class: 15/13/10 according to ISO 4406
8 according to SAE AS 4059

Operating
Fill into the central system device without any cross-contamination with other material. Seal the bottle carefully after using. Prevent any kind of dust during the filling process. The filling nozzle has to be cleaned before each filling.

Benefits
- Fine filtered according to purity class 15/13/10 (ISO 4406)
- Improved gliding performance
- Increased aging stability
- Detergent and dispersing effect
- Absorbing of water

Water hazard class: WHC 1
Waste code: EAK 13 01 10

Technical facts

Chemical and physical characteristics	Unit	Test method	HiPure HLPD 68
Viscosity class		ISO VG DIN 51 519	68
Kin. viscosity at +40 °C	mm²/s	DIN 51 562-1	68
Kin. viscosity at +100 °C	mm²/s	DIN 51 562-1	8,7
Density at +15 °C	kg/m³	DIN 51 757	880
Flashpoint COC	°C	DIN ISO 2592	245
Pourpoint	°C	DIN ISO 3016	-24
Neutralization number (s) {Nn}	g KOH/g	DIN 51 558-1	1,0
Air release property at +50 °C	min	DIN 51 381	14
Corrosion protection	Degree of corrosion	DIN 51 585	0-A
Copper stripe test	Degree of corrosion	DIN EN ISO 2160	(3h/100°C), Degree 1
Aging resistance - Increase of the neutralization number after 1000 h.	mg KOH/g	DIN 51 587	< 2,0
Mechanical test in the FZG-gear wheel test machine	Damage force	DIN 51 354-2	11
Mechanical test in the vane cell pump		DIN 51 389-2	passed
Behavior against sealants agent (EVI) SRE-NBR 1, 168 hours at +100 °C		DIN 51 538-1	
Relative volume change	%	DIN 53 521	4,1
Change of the hardness	Shore A	DIN 53 505	±0

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