

RENOLIN ZAF B

Zinc and ash free hydraulic Oil

Description

Zinc free hydraulic oils have steadily gained popularity over the last few years, and in many cases, the use of zinc free hydraulic oil is a must, especially in machine tools where hydraulic fluids can contaminate metalworking fluids.

RENOLIN ZAF B hydraulic oils are zinc and ash free HLP hydraulic oils complying with DIN 51 524-2.

RENOLIN ZAF B hydraulic oils have the following features.

- Good oxidation stability and good resistance to ageing.
- Powerful EP properties and very good wear protection.
- Excellent corrosion protection.
- Good air separation and low foaming.
- Good demulsifying properties.
- Good compatibility with sealing materials.

Application

RENOLIN ZAF B hydraulic oils are high-grade mineral products, which can be used, in all hydraulic systems but also as lubricating oils in gearboxes, bearings and circulating systems.

RENOLIN ZAF B products are recommended for use in machine tools where contact between hydraulic fluids and metalworking oils can take place.

The RENOLIN ZAF B series of oils fulfill, and in some cases, exceed the requirements of

- DIN 51524 Part2 (HLP)
- DIN 51517 Part3 (CLP)
- VDMA 24318
- SEB 181-222
- AFNOR E48 603 HM

CHARACTERISTICS

Properties	Unit	Value									Test Method
ISO Viscosity Grade		10	22	32	46	68	100	150	220	320	
Viscosity@ 40 °C	mm ² /s	10.6	22	33	47.7	69	99	155	220	318	ASTM D-445
@ 100 °C	mm ² /s	3	4.4	6	7.0	9	11.0	17.0	19.0	24.0	ASTM D-445
Viscosity Index		108	109	100	96	99	98	96	97	96	ASTM D-2270
Density @ 35 °C	kg/m ³	837	857	865	869	868	874	880	881	890	ASTM D-1298
Flash Point	°C	162	208	210	220	228	260	240	240	248	ASTM D-92
Pour Point	°C	- 18	-27	- 30	- 27	- 21	- 15	- 15	- 12	- 9	ASTM D-97
Neutralization Number	mg KOH/g	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	ASTM D-974