RENOLIN B

High quality AW hydraulic & lubricating oils

Description

The RENOLIN B series is based on selected mineral base oils. High-quality additives improve the ageing and oxidation stability. They also guarantee excellent corrosion protection properties (steel and iron materials). Synergistically acting copper deactivators protect copper / yellow metal materials. The selected Anti-Wear- / mild EP-additives based on zinc-dialkyldithiophosphates protect hydraulic pumps, motors, components and machine elements from wear (at low and high temperatures and at high loads).The RENOLIN B oils are mineral oil-based hydraulic fluids according to DIN 51524-2 (demulsifying, zinc-containing) and lubricating oils according to DIN 51517.

Advantages/Benefits

- Excellent demulsibility
- Very good corrosion protection to steel
- Good corrosion protection to copper
- High ageing stability / high oxidation stability
- Good AW wear protection
- Very good hydrolytic stability
- Excellent filtration behavior (dry, wet)
- Low foaming
- Excellent air release

Application

Universally applicable demulsifying hydraulic fluids and lubricating oils. They can be used in all types of mobile and stationary hydraulic units where the use of a demulsifying hydraulic oil (type HLP) is recommended.
Synergistically acting additives guarantee a long life- time and the highest hydraulic performance. Even at high temperatures and high loads the base oils together with the additives ensure that the system will be operated reliably during a long lifetime.

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While the information and figures given here are typical of current production and confirm to specification, minor variations may occur. No warranty expresses or implied given concerning the accuracy of the information or the suitability of the products.

Application (continued)

The RENOLIN B series fulfills the high requirements of the DENISON HF-0 specification (hybrid pump test, a combination of a vane and a piston pump – T6H20C combination).

The RENOLIN B oils offer an excellent thermal stability (Cincinnati Milacron B – pass). The formation of hydrolysis products - when water enters the hydraulic system - will be avoided. The RENOLIN B series shows an excellent filtration behaviour. Under dry as well as wet conditions, the filtration behaviour is excellent (low pressure, good flowability).

Specifications

The RENOLIN B products fulfil and surpass the requirements according to:

- DIN 51524-2: HLP
- ISO 6743-4: HM
- Denison HF 1, HF 2, HF 0
- Vickers I 286-S, M 2950-S
- Cincinnati Machine P68, P69, P70
- US Steel 127, 136

Well-known pump manufacturers have approved the RENOLIN B oils, for example:

- Denison
- Bosch Rexroth
- Sauer Danfoss

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TYPICAL CHARACTERISTICS

RENOLIN		B 3 VG 10	B 5 VG 22	B 10 VG 32	B 15 VG 46	B 20 VG 68	B 30 VG 100	B 40 VG 150	
Characteristics	**Unit**								**Test Method**
ISO VG		10	22	32	46	68	100	150	DIN 51 519
Kinematic viscosity at 40ºC at 100ºC	 mm^2/s mm^2/s	 10 2.6	 22 4.3	 32 5.5	 46 6.9	 68 8.9	 100 11.3	 150.0 14.8	ASTM D445
Viscosity Index		96	102	107	105	105	98	98	ASTM D2270
Density at 15ºC	g/cm^3	0.855	0.867	0.869	0.876	0.882	0.888	0.895	ASTM D4052
Colour	ASTM	L0.5	L0.5	L0.5	L0.5	L1.0	L1.0	L1.5	ASTM D1500
Flashpoint (Cleveland Open Cup)	ºC	 160	 180	 200	 220	 225	 230	 250	ASTM D92
Neutralisation number	mg KOH/g	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ASTM D974
Brugger-Test	N/mm2	30	30	30	30	30	30	30	DIN 51 347-2
FZG A/8.3/90 gear test rig Start temp: 90°C	Failure load stage	-	-	11	11	11	11	11	DIN ISO 14635-1

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