

RENOLIN B

High Quality AW Hydraulic and Lubricating Oils

Description

The RENOLIN B series is based on specially 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.

Applications

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 lifetime and the highest hydraulic performance. Even at high temperatures and high loads the base oils together with the additives ensure that the system will operate reliably during a long lifetime.

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

The RENOLIN B oils offer excellent thermal stability (Cincinnati Milacron B – pass). The formation of hydrolysis products when water enters the hydraulic system is avoided. The RENOLIN B series demonstrate 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

Advantages/Benefits

- Excellent demulsibility
- Very good corrosion protection - steel
- Good corrosion protection - 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

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Product name		5VG22	10VG32	15VG46	20VG68	30VG10	40VG150	
Properties	Unit							Test Method
ISO VG		22	32	46	68	100	150	DIN 51519
Kinematic viscosity								
at 40 °C	mm ² /s	22	32	46	68	100	150	DIN EN ISO 3104
at 100 °C	mm ² /s	4.4	5.5	6.9	8.8	11.1	14.5	
Viscosity index	-	107	109	105	100	96	94	DIN ISO 2909
Density at 15 °C	kg/m ³	863	876	875	881	883	887	DIN 51757
Colour	ASTM	0.5	0.5	1.5	2.0	2.0	2.5	DIN ISO 2049
Flash point (COC)	°C	200	205	210	224	232	224	DIN ISO 2592
Pour point	°C	- 27	- 24	- 24	- 24	- 18	- 15	DIN ISO 3016
Neutralization number	mg/KOH/g	0.5	0.5	0.5	0.5	0.5	0.5	DIN 51558-3
Air release at 50 °C (max.)	Minutes	3	4	6	13	17	30	DIN ISO 9120
Demulsification at 54 °C	Minutes	10	10	10	15	-	-	DIN ISO 6614
at 82 °C	Minutes	-	-	-	-	5	5	
Scuffing and scoring test, FZG A/8.3/90	Failure load stage	-	-	11	11	11	11	DIN ISO 14635-1
Brugger test	N/mm ²				30			DIN 51347-2
Copper corrosion	Degree of corrosion				1 – 100 A 3			DIN EN ISO 2160
Steel corrosion	Degree of corrosion				0-A distilled water: pass 0-B salt water: pass			DIN ISO 7120
ISO filterability dry / wet	-				pass / pass			DIN ISO 13357

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We therefore recommend you consult a FUCHS Lubricants Co. Application Engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

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