RENOLIN HYDRAULIC AW

Description

The RENOLIN HYDRAULIC AW 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 HYDRAULIC AW products are mineral oil based hydraulic fluids according to DIN 51 524-2 (demulsifying, zinc containing) and lubricating oils according to DIN 51 517.

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 be operated reliably during a long lifetime.

The RENOLIN HYDRAULIC AW products fulfill the high requirements of the DENISON HF 0 specification (hybrid pump test, a combination of a vane and a piston pump - T6H20C combination).

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.

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

Specifications

The RENOLIN HYDRAULIC AW products fulfill and surpass the requirements according to:

- DIN 51 524-2: 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
- AFNOR NFE 48690 (dry) and NFE 48691 (wet)

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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.

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TYPICAL CHARACTERISTICS

RENOLIN HYDRAULIC AW		32	46	68	100	
Characteristics	**Unit**					**Test Method**
ISO VG		32	46	68	100	DIN 51 519
Kinematic viscosity at 40ºC at 100ºC	 mm^2/s mm^2/s	 32 5.5	 46 6.9	 68 8.9	 100 11.3	ASTM D445
Viscosity Index		107	105	105	98	ASTM D2270
Density at 15ºC	g/cm^3	0.869	0.876	0.882	0.888	ASTM D4052
Colour	ASTM	L0.5	L0.5	L1.0	L1.0	ASTM D1500
Flashpoint (Cleveland Open Cup)	ºC	 200	 220	 225	 230	ASTM D92
Neutralisation number	mg KOH/g	0.5	0.5	0.5	0.5	ASTM D974
Brugger-Test	N/mm2	30	30	30	30	DIN 51 347-2
FZG A/8.3/90 gear test rig Start temp: 90°C	Failure load stage	12	12	12	12	DIN ISO 14635-1

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