

RENOLIN B HVI

High-quality EP/AW lubricating and hydraulic oils with high viscosity index

Description

Proper function and operating safety of hydraulic systems are largely influenced by the quality of the hydraulic medium. In addition to the task of transferring forces, the operating fluid must seal, cool and lubricate. Since hydraulic oils are exposed to high stress due to the operating conditions, they have to fulfil a large number of requirements. The oils of the RENOLIN B HVI series are formulated on the basis of highly ageing-resistant solvates containing additives that increase the aging resistance. The products of the RENOLIN B HVI series are zinc-containing HVLP hydraulic and general lubricating oils according to DIN 51524-3. Mineral oil-based, demulsifying.

Application

RENOLIN B HVI high-quality products are used as hydraulic oil and as lubricating oil for various applications like bearings and gear boxes, even when a high viscosity index and good load carrying capacity is required. Especially recommended for applications where a low start-up viscosity at low temperatures and a higher viscosity at higher temperatures is required. Particularly suited to all applications in mobile and industrial hydraulic systems that require the use of an HVLP oil according to DIN 51524-3 with a wide service temperature range.

Advantages

- Low foaming tendency
- Good air release properties
- High ageing resistance
- Good corrosion protection
- Very good viscosity-temperature-behaviour
- Very good wear protection
- High viscosity index
- Wide service temperature range
- Good shear stability

Specifications

The products meet or exceed the requirements according to

- DIN 51524-3, HVLP
- ISO 6743-4, HV
- ISO 11158
- Denison HF0
- Bosch Rexroth
- Vickers
- US Steel
- Cincinnati Milacron

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Typical data:

Product name		15	32	46	
Properties	Unit				Test method
ISO VG		15	32	46	DIN 51519
Kinematic viscosity					
at - 20 °C	mm ² /s	400	1858	3486	DIN EN ISO 3104
at 0 °C	mm ² /s	81	233	402	
at 40 °C	mm ² /s	15	32	46	
at 100 °C	mm ² /s	3.8	6.3	8.1	
Viscosity index	-	151	151	150	DIN ISO 2909
Density at 15 °C	kg/m ³	859	871	879	DIN 51757
Flashpoint (Cleveland Open Cup)	°C	180	178	186	DIN ISO 2592
Pourpoint	°C	- 45	- 48	- 45	DIN ISO 3016
Neutralisation number	mgKOH/g	0.5	0.5	0.5	DIN 51558-2
Mechanical testing in the FZG gear test rig, A/8.3/90	failure load stage	-	11	11	DIN ISO 14635-1
Brugger test – wear protection	N/mm ²	30	30	30	DIN 51347-2
VKA shear stability, four-ball test: relative shear loss (viscosity reduction, V ₄₀ and V ₁₀₀) after 20 h	%	< 15	< 15	< 15	DIN 51350-6

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Typical technical data:

Product name		68	100	150	
Properties	Unit				Test method
ISO VG		68	100	150	DIN 51519
Kinematic viscosity					
at - 20 °C	mm ² /s	-	-	-	DIN EN ISO 3104
at 0 °C	mm ² /s	619	-	-	
at 40 °C	mm ² /s	68	100	150	
at 100 °C	mm ² /s	11.0	13.5	17.7	
Viscosity index	-	153	140	130	DIN ISO 2909
Density at 15 °C	kg/m ³	868	871	881	DIN 51757
Flashpoint (Cleveland Open Cup)	°C	240	240	260	DIN ISO 2592
Pourpoint	°C	- 36	- 24	- 24	DIN ISO 3016
Neutralisation number	mgKOH/g	0.5	0.5	0.5	DIN 51558-2
Mechanical testing in the FZG gear test rig, A/8.3/90	failure load stage	11	11	11	DIN ISO 14635-1
Brugger test – wear protection	N/mm ²	30	30	30	DIN 51347-2
VKA shear stability, four-ball test: relative shear loss (viscosity reduction, V ₄₀ and V ₁₀₀) after 20 h	%	< 15	< 20	< 20	DIN 51350-6

Product Information

MOVING YOUR WORLD



Note

The information contained in this product information is based on the experience and know-how of FUCHS LUBRICANTS GERMANY GmbH in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible.

Our products must not be used in aircraft or spacecraft. Our products may be used in the manufacture of components for aircraft or spacecraft if they are removed without residue from the components prior to assembly into the aircraft or spacecraft.

The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application. We therefore recommend that you consult a FUCHS LUBRICANTS GERMANY GmbH 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.

Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without warning, unless otherwise provided in customer-specific agreements. With the publication of this product information, all previous editions cease to be valid. Any form of reproduction requires express prior written permission from FUCHS LUBRICANTS GERMANY GmbH.

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