

RENOLIN MWB Zinc- and ash-free hydraulic oils HLPD

Description

Ever increasing demands, e.g. regarding precision, speed, etc., are made on today's machinery, which causes machine components and component materials to work near to their maximum capacity. Often, this leads to increased wear and machine breakdowns.

The RENOLIN MWB oils are high-performance hydraulic and lubricating oils which were developed to ensure optimum efficiency and reliability of machinery and systems. These oils are based on high-quality base oils and special, zinc- and ash-free additive components which offer excellent wear protection, especially under mixed friction conditions (high Brugger value). The detergent / dispersant properties of the RENOLIN MWB oils prevent the formation of residues and ensure that contaminants (dirt, water) are kept in suspension. Surface wetting is improved and the formation of a protective lubrication film is guaranteed, even under hard working conditions.

Advantages / Benefits

- Zinc- and ash-free
- Powerful EP properties and very good wear protection
- Powerful anti-wear performance under mixed friction conditions (high Brugger value)
- Powerful detergent / dispersant properties
- Excellent oxidation stability and good resistance to ageing
- Excellent corrosion protection
- Good compatibility with sealing materials
- Long lifetime

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Application

The RENOLIN MWB oils are high-performance hydraulic and lubricating oils which can be used in all hydraulic and lubricating systems. RENOLIN MWB oils are especially suitable for highly-stressed mobile and stationary hydraulic systems, e.g. in presses.

Specifications

RENOLIN MWB oils meet and in many cases exceed the requirements of:

- DIN 51 524-2: HLP (except for demulsifying properties)
- DIN 51 517-3: CLP
- ISO 6743-4: HM
- ISO 6743-6: CKC
- ISO 11158: HM

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The RENOLIN MWB oils are approved by e.g.: Müller Weingarten, 88250 Weingarten, Germany

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Typical data:

| Product name | | 32 | 46 | 68 | |
|---|-----------------------|----------------|----------------|----------------|-----------------|
| Properties | Unit | | | | Test method |
| Kinematic viscosity at 40°C at 100°C | mm²/s mm²/s | 32 5,4 | 46 6,9 | 68 8,7 | DIN EN ISO 3104 |
| Viscosity index | - | 97 | 105 | 99 | DIN ISO 2909 |
| Density at 15°C | kg/m³ | 878 | 882 | 879 | DIN 51 757 |
| Flashpoint, Cleveland open cup | °C | 210 | 218 | 224 | DIN ISO 2592 |
| Pourpoint | °C | -24 | -24 | -18 | DIN ISO 3016 |
| Air release at 50°C | min | 4 | 5 | 12 | DIN ISO 9120 |
| Copper corrosion (24 h/ 100°C) | Degree of corrosion | 1 | 1 | 1 | DIN EN ISO 2160 |
| Steel corrosion | Degree of corrosion | 0 – A | 0 – A | 0 – A | DIN ISO 7120 |
| Brugger test | N/mm² | <u>></u> 50 | <u>></u> 50 | <u>></u> 50 | DIN 51 347-2 |
| FZG mechanical gear test rig, FZG A/8,3/90 | Failure load stage | > 12 | > 12 | > 12 | DIN ISO 14635-1 |
| FE8 roller bearing wear test, D-7,5/80/80 (80°C, 80 kN) Roller wear | mg | < 2 | < 2 | < 2 | DIN 51 819-3 |

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We therefore recommend that you consult a FUCHS EUROPE SCHMIERSTOFFE 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.

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