Product Information



RENOLIN ZAF B RANGE

Zinc and ash free hydraulic fluids, demulsifying with excellent wear protection

Description

In the past few years, zinc-free hydraulic oils have become more and more important.

In many cases, the use of zinc-free hydraulic oils is required for use in machine tools where a contamination of the hydraulic oil with the metalworking fluid is possible.

The oils of the RENOLIN ZAF B RANGE are zinc and ash free hydraulic oils HLP according to DIN 51524, Part 2 with very good wear protection and load carrying capacity.

Application

The oils of the RENOLIN ZAF B RANGE are high quality products that can be used both as hydraulic oils and also as lubricating oils for various applications, e.g. in bearings and recirculation systems. RENOLIN ZAF B RANGE grades are recommended for use in hydraulic systems in machine tools where a contamination with the metalworking emulsion may occur.

Advantages/Benefits

- High oxidation stability
- · Good ageing resistance
- Very good wear protection and load carrying capacity
- Excellent corrosion protection
- · Good air release properties
- Low foaming tendency
- · Excellent elastomer compatibility

Specifications

The RENOLIN ZAF B RANGE meet, and in many cases exceed the requirements:

• DIN 51524-2: HLP

• ISO 6743-4: HM



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Health, Safety and Environment - information is provided for products in the relevant Safety Data Sheet. This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products.

Product Information



CHARACTERISTICS: RENOLIN ZAF B RANGE

| RENOLIN ZAF | | 10 B | 22 B | 32 B | 46 B | |
|--|-----------------------|-----------|-----------|-----------|-----------|-----------------|
| Characteristics | Unit | | | | | Test Method |
| ISO VG | | 10 | 22 | 32 | 46 | |
| Kinematic viscosity at 40°C at 100°C | mm²/s mm²/s | 10 2.6 | 22 4.3 | 32 5.4 | 46 6.8 | DIN EN ISO 3104 |
| Viscosity index | | 94 | 100 | 102 | 101 | DIN ISO 2909 |
| Density at 15°C | kg/m ³ | 851 | 865 | 872 | 875 | DIN 51757 |
| Colour index | ASTM | 0.5 | 1.0 | 1.0 | 1.0 | DIN ISO 2049 |
| Flash point, Cleveland (COC) | °C | 170 | 212 | 215 | 234 | DIN ISO 2592 |
| Pour point | °C | -30 | -30 | -30 | -27 | DIN ISO 3016 |
| Neutralisation number | mg KOH/g | 0.3 | 0.3 | 0.3 | 0.3 | DIN 51558 |
| Air release properties at 50°C | min. | 1 | 2 | 3 | 8 | DIN ISO 9120 |
| FZG A/8.3/90 | failure load stage | - | - | - | >12 | DIN ISO 14635-1 |

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CHARACTERISTICS: RENOLIN ZAF B RANGE

| RENOLIN ZAF | | 68 B | 100 B | 150 B | |
|--|-----------------------|-----------|-------------|---------------|-----------------|
| Characteristics | Unit | | | | Test Method |
| ISO VG | | 68 | 100 | 150 | |
| Kinematic viscosity at 40°C at 100°C | mm²/s mm²/s | 68 8.7 | 100 11.3 | 150.0 14.7 | DIN EN ISO 3104 |
| Viscosity index | | 102 | 99 | 97 | DIN ISO 2909 |
| Density at 15°C | kg/m ³ | 879 | 882 | 890 | DIN 51757 |
| Colour index | ASTM | 1.0 | 1.0 | >1 | DIN ISO 2049 |
| Flash point, Cleveland (COC) | °C | 230 | 240 | >206 | DIN ISO 2592 |
| Pour point | °C | -21 | -18 | -20 | DIN ISO 3016 |
| Neutralisation number | mg KOH/g | 0.3 | 0.3 | - | DIN 51558 |
| Air release properties at 50°C | min. | 8 | 9 | - | DIN ISO 9120 |
| FZG A/8.3/90 | failure load stage | >12 | >12 | - | DIN ISO 14635-1 |

WARNING: Never mix zinc-free hydraulic fluids with those containing zinc-based additives.

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