



Rando® Ashless 8401

High performance zinc-free multigrade hydraulic fluid

Product description

Rando Ashless 8401 is a high performance zinc-free multigrade hydraulic fluid with a very high viscosity index. Rando Ashless 8401 exhibits very low temperature fluidity and offers a very short warm-up period when compared to certain conventional fluids.

Rando Ashless 8401 is formulated with highly refined base oils and a highly shear stable and robust viscosity index (VI) improver, designed to offer a very high VI hydraulic fluid, which promotes system protection and performance across a wide temperature range.

Customer benefits

- Very high VI contributes to increased system protection and performance across a wide temperature range
- Low temperature fluidity aids rapid fluid circulation at cold system start-up, offering critical component protection
- Advanced ashless (zinc-free) additive formulation promotes smooth operating and filtration performance in wet conditions
- Air release and foam suppression performance offers consistent, effective lubrication and system performance and protection
- High performance corrosion inhibitors promote system protection and reduced system downtime

Product highlights

- **Protection and performance across a wide temperature range**
- **Rapid fluid circulation at cold system start-up**
- **Smooth operating and filtration performance in wet conditions**
- **Air release and foam suppression performance**
- **High performance corrosion protection**

Selected specification standards include:

Swedish Army Standard FSD 8401

Applications

- Rando Ashless 8401 is recommended for hydraulic systems operating at severe temperatures, for example for marine applications such as deck cranes, steering equipment, winches, or for other outside hydraulic systems
- Rando Ashless 8401 fulfils many requirements of an anti-wear hydraulic oil for heavy duty applications, but is not suited to continuous operations

Approvals, performance and recommendations

Performance

- Rando Ashless 8401 meets Swedish Army Standard FSD 8401

Typical test data		
Test	Test methods	Results
Product Code		040078
Visc. Kinematic at 40°C	ISO 3104	29
Visc. Kinematic at 100°C	ISO 3104	9.9
Visc. Index, min	ISO 2909	361
Flash Point, °C, min	ISO 2592	108
Pour point, °C, max	ISO 3016	>-60
Density, 15°C, Kg/l	ASTM D1298	0.8706
Air Release at 50°C, min	ISO DIS 9120	7
FZG A/8.3/90, Fail. load stage, min	DIN 59354	12
Cu Corrosion, 3h, 100°C	ASTM D0130	1B

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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