

Rando[®] EP Ashless

Proven performance extreme pressure ashless hydraulic fluid

Product description

Rando EP Ashlessare a range of proven performance extreme pressure ashless hydraulic fluids, designed for heavy-duty applications where anti-wear, extreme pressure and anti-corrosion properties are required.

Rando EP Ashless additive formulation contributes to operating and filtration performance in wet conditions, helping extend equipment reliability and service life. Rando EP Ashless meets the requirements of DIN specification 51524-2 (HLP oils).

Customer benefits

- Extreme pressure anti-wear performance offers robust protection in heavy-duty applications, helping extend equipment service life
- Ashless additive formulation offers improved operating and filtration performance in water contaminated systems
- Demulsification and air release performance helps ensure optimum operating performance and system protection
- Promotes system corrosion protection and reduced system downtime

Product highlights

- Extreme pressure anti-wear resistance
- Improved wet operation and filtration
- Demulsification and air release performance
- System corrosion protection

Selected specification standards include:

DIN	ISO
Vickers	Cincinnati Milacron
Krauss Maffei Kunstoftechnik	

Applications

- Rando EP Ashless fluids are recommended for a wide range of hydraulic equipment where anti-wear, extreme pressure and anti-corrosion properties are required. This is required in cases of high thermal stress or contamination by water. In order to improve the anti-wear / EP and anti-corrosion properties of the oil, special additives are incorporated in the formulation
- Rando EP Ashless oils have been used successfully in hydraulic presses and plastic extruders

Please note: Rando EP Ashless shows limited compatibility with ZnDTP based hydraulic oils and engines oils which can lead to filter blockage. It is therefore recommended not to top-up systems with Zn-containing hydraulic oils and thoroughly flush the system when switching from one technology to the other.

Approvals, performance and recommendations

Performance

- DIN 51524-2 class HLP
- ISO 6743-4 class L-HM
- ISO 11158 HM
- Vickers I-256-S
- Cincinnati Milacron P-68, P-69, P-70
- Krauss Maffei Kunstoftechnik Hydraulic Oil spec

Typical test data				
Test	Test methods	Results		
Viscosity Grade		46	68	
Product Code		033463	033464	
Appearance	Visual	B&C	B&C	
Visc. Kinematic at 40°C	ISO 3104	46	68	
Visc. Kinematic at 100°C	ISO 3104	6.7	8.6	
Visc. Index	ISO 2909	101	99	
Colour	ISO 2049	0.5	0.5	
Flash Point, °C	ISO 2592	230	238	
Pour point, °C	ISO 3016	-30	-27	
TAN, mg KOH/g	DIN 51558/1	0.11	0.12	
Density, 15°C, Kg/l	ASTM D1298	0.8789	0.8756	
FZG A/8.3/90, Fail. load stage	DIN 59354	12	12	
Cu Corrosion, 3h, 100°C	ASTM D130	1B	1B	
Sulphated Ash, wt %	ASTM D874	0.02	0.02	
Hours to Neut. Nr. 2.0 mgKOH/g, hrs	ASTM D943	+3000	+3000	

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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