



Rando® EP Ashless

Premium performance heavy-duty hydraulic fluid

Product Data Sheet



Customer benefits

Heavy-duty system protection

Rando EP Ashless provides exceptionally high extreme pressure performance in demanding operating environments. This advanced heavy-duty formulation meets and exceeds DIN specification 51524-2 (HLP oils). Rando EP Ashless delivers performance and protection to a wide range of hydraulic equipment where oxidation resistance, anti-wear, extreme pressure and high performance corrosion resistance is required.

Rando EP Ashless also delivers maximum protection in systems where water contamination and high thermal stress is possible. This advanced hydraulic fluid delivers leading edge zinc-free additive technology, best-in-class ash-free performance and water separation properties, optimising filtration efficiency and maximising system protection.

Ultimate keep-clean performance

Rando EP Ashless' high performance additive technologies deliver extremely high system cleanliness, providing outstanding rust and corrosion protection in very wet environments. These premium quality additives optimise air release, and offer maximum extreme pressure protection and anti-wear performance.

Applications

- Rando EP Ashless is recommended for all types of hydraulic equipment where anti-wear, extreme pressure and anti-corrosion properties are required, and where high thermal stress or water contamination are encountered.

Approvals

Performance

DIN	51524-2 class HLP
ISO	6743-4 class L-HM
ISO	11158 HM

Product features:

Rando EP Ashless is a premium performer in heavy-duty hydraulic fluids. This advanced formulation is free of all metal additives, delivering ash-free performance in high temperature operations, maximising keep-clean performance and system efficiency.

OEM approvals

Vickers	I-256-S
Cincinnati Milacron	P-68, P-69, P-70
Krauss Maffei	Kunstoftechnik Hydraulic Oil spec

Product specifications

RANDO EP ASHLESS					
TYPICAL DATA					
TEST	TEST METHODS	RESULTS			
Viscosity Grade		32	46	68	
Appearance	Visual	B&C	B&C	B&C	
Visc. Kinematic at 40 °C	ISO 3104	32	46	68	
Visc. Kinematic at 100 °C	ISO 3104	5.4	6.7	8.6	
Visc. Index	ISO 2909	104	101	99	
Colour	ISO 2049	0.5	0.5	0.5	
Flash Point, °C	ISO 2592	216	230	238	
Pour point, °C	ISO 3016	-30	-30	-27	
TAN, mg KOH/g	DIN 51558/1	0.11	0.11	0.12	
Density, 15 °C, Kg/l	ASTM D1298	0.8706	0.8789	0.8756	
FZG A/8.3/90, Fail. load stage	DIN 59354	11	12	12	
Cu Corrosion, 3h, 100 °C	ASTM D130	1B	1B	1B	
Sulphated Ash, %wt	ASTM D874	0.02	0.02	0.02	
Hours to Neut. Nr. 2.0 mgKOH/g, Hrs	ASTM D943	+3000	+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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