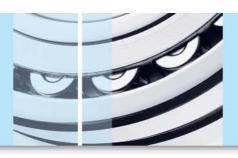
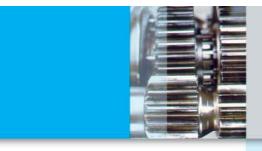


Product Data Sheet







### **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

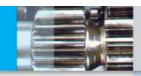
ISO 11158 HM

### **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		
1531	IESI METHODS	KESULIS		
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/I	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.

<u>Disclaimer</u> Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.