

### Product description

**Rando HD<sup>®</sup>** oils are formulated with premium base oils and robust additives to help protect hydraulic pumps and systems. Rando HD oils help ensure good film strength between metal surfaces and is further enhanced by antiwear additive protection.

Rando HD oils help to deliver long oil service life with its premium base oil quality used in formulation.

### Customer benefits and product features

#### Customer benefits

- **Protects equipment**  
Robust anti-wear additive package helps minimize wear by protecting surfaces when loads cause breakdown of the lubricant film.
- **Minimizes downtime**  
Rust and oxidation inhibitors help to prevent the production of abrasive particles from rust formation, and deposits, varnishes and sludges from oil breakdown, which can damage equipment surfaces and seals, and block filters prematurely.
- **Smooth operation**  
Good hydrolytic stability and water separation characteristics promote excellent filterability in the presence of water contamination. Good anti-foam and air release properties help ensure smooth operation and system efficiency.
- **Longer oil service life**  
The use of premium base stocks helps resist oil thickening and deposit formation in service to minimize the possibility of an unscheduled change of hydraulic fluid. Oxidation test life is higher than solvent extracted hydraulic oil products.

#### Product features

- Robust anti-wear additive protects equipment.
- Rust and oxidation inhibitors help to prevent deposits and minimize downtime.
- Good hydrolytic stability and water separation help with smooth operation.
- Premium Group II base oil helps to ensure longer oil life.

# Rando<sup>®</sup> HD

Premium Anti-Wear Hydraulic Oil



## Applications

General hydraulics in both mobile or stationary equipment using gear, vane or piston pumps across a wide range of industries.

- Industrial hydraulic systems
- Hydraulics of mobile and construction equipment where a water separating oil is required
- Hydraulic systems with vane, gear or piston pumps
- Plastic injection molding machines
- Machine tools
- Enclosed gear systems (dependent on load)
- Industrial circulating systems

Consult OEM representatives for independent verification, updates and recommendations.

### Approvals, performance and recommendations

Developed independently by Chevron to comply with the following performance standards and specifications:

RANDO® HD	32	46	68	100	220	320
AFNOR NF E 48-603 HM	M	-	-	M	-	-
AIST (US Steel) 126, 127	M	-	-	-	-	-
Allmineral Lube Chart	A	A	A	-	-	-
ANSI/AGMA 9005-E02 R&O	-	M	M	M	M	M
Arburg Injection Moulding	-	A	-	-	-	-
ASTM D6158-HM	M	M	M	M		
Bosch Rexroth RDE 90245	A	A	A	-	-	-
Chevron ISOCLEAN Certified Lubricant	M	M	M	M	M	M
David Brown 0A, 1A, 2A, 3A, 4A, 5A	M	M	M	M	-	-
DIN 51524/2 HLP	M	M	M	M	-	-
Eaton E-FDGN-TB002-E	A	A	A	-	-	-
Fives Cincinnati P-68	M	-	-	-	-	-
Fives Cincinnati P-69	-	-	M	-	-	-
Fives Cincinnati P-70	-	M	-	-	-	-
General Motors LS2 LH	M	M	M	-	-	-
Grob Lubricant Chart	A	A	A	-	-	-
Husky Injection Molding Systems Ltd, OEM-specific listing	-	A	-	-	-	-
ISO 11158-HM	M	M	M	M	M	M
JCMA JCMAS HK	M	-	-	-	-	-
Joy HO-S	-	-	M	-	-	-
NSF H2	A	A	A	A	A	A
Parker Hannifin (Denison) HF-0, HF-1, HF-2	A	A	A	-	-	-
Parker Hannifin (Denison) T6H20C	M	-	-	-	-	-
PEKRUN WERKNORM N8053	A	-	-	-	-	-
Rexnord Falk Class A,F,J, Planetgear	-	-	A	A	A	A
Rexnord Falk Class D,G,Y, Link Belt Model R	-	-	A	A	A	A
SAE MS1004-HM	M	M	M	M	-	-
SMS Group SN 180-2	A	A	-	A	-	-
US Steel 126, 127	-	M	M	-	-	-
Vickers (Eaton) 35VQ25A	A	A	A	-	-	-
Vickers (Eaton) I-286-S, M-2950-S	M	M	M	-	-	-
WALDRICH SIEGEN Lubricants for machine tools	A	A	A	-	-	-
ZF TE-ML 04K	A	A	-	-	-	-

0425

**A:** Approved

**M:** Meets the requirements

# Rando® HD

Premium Anti-Wear Hydraulic Oil



## Typical test data

RANDO® HD						
ISO Viscosity Grade	32	46	68	100	220	320
Product Code	520210	520211	520212	520213	520215	520220
Viscosity, Kinematic						
mm <sup>2</sup> /s at 40°C	32.4	46.0	68	100	220	304
mm <sup>2</sup> /s at 100°C	5.4	6.8	8.9	10.8	19	23.4
Viscosity Index	110	110	110	97	97	96
Density at 15kg/L	0.86	0.8700	0.87	0.8730	0.8878	0.8951
Flash Point, °C	216	238	240	240	274	277
Pour Point, °C	-33	-33	-30	-21	-12	-12
FZG Fail Load Stage	12	12	12	12	12	12
Air Release at 50°C, min	1.1	2	3.5	12	-	-
Oxidation Stability(TOST)	>5000	>4500	>4500	>2000	>1000	>1000

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

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