Rando® HD

Premium Anti-Wear Hydraulic Oil

Product description

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

A Chevron company product. All trademarks are property owned by Chevron Intellectual Property LLC.

Visit Product Information Center >

Rando® 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
- Textile spindle lubrication where zinc-free oils are not a requirement (ISO VG 10)

Approvals, performance and recommendations

Rando HD are approved against:

- Bosch Rexroth RDE 90245
- Parker Hannifin (Denison Hydraulics) HF-0 (ISO 32, 46, 68)
- Eaton Vickers I-286-S [industrial applications], M2950-S [mobile applications] (ISO 32, 46, 68)
- David Brown Industrial Gears 0A (ISO 32),1A (ISO 46),2A (ISO 68),3A (ISO 100),4A (ISO 150),5A (ISO 220)

Rando HD oils meet the requirements of various industry standards:

- Bosch Rexroth former specification RE 90220 (ISO 32, 46, 68)
- DIN 51502:1990, HLP fluid (ISO 32, 46, 68, 100)
- DIN 51524:2006-04 Part 2, HLP (ISO 32, 46, 68, 100)
- Cincinnati Machine P-68 (ISO 32), P-69 (ISO 68) and P-70 (ISO 46)
- ISO 6743:1999 Part 4, HM fluid
- ISO 11158:2009, HM
- SAE MS1004 HM (ISO 32, 46, 68, 100)
- US Steel 126 and 127 (ISO 32, 46, 68)

A Chevron company product. All trademarks are property owned by Chevron Intellectual Property LLC.

Visit Product Information Center >

Rando® HD

Premium Anti-Wear Hydraulic Oil

Typical test data

RANDO® HD	RESULTS						
ISO Viscosity Grade	**10**	**32**	**46**	**68**	**100**	**150**	**220**
Product Code	**520207**	**520210**	**520211**	**520212**	**520213**	**520214**	**520215**
Viscosity, Kinematic							
mm^2/s at 40°C	10	30.5	44	65	95.5	143	220
mm^2/s at 100°C	2.66	5.4	6.8	8.9	10.8	14.3	19.0
Viscosity Index	100	110	110	110	97	97	97
Flash Point, °C	146	216	238	240	240	250	274
Pour Point, °C	-9	-33	-33	-30	-21	-15	-12
FZG Fail Load Stage	-	12	12	12	12	12	12
Air Release at 50°C, min	-	1.1	2	3.5	12	15	-
Oxidation Stability(TOST)	-	>5000	>4500	>4500	>2000	>1500	>1000

1025

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.

This Product Data Sheet (PDS) was produced for the Asia-Pacific region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

This document includes registered and unregistered trademarks, service marks, logos and trade names owned by Chevron Intellectual Property LLC and/or its affiliates, or owned by third parties whose products, services or standards are referred to. You must not use any trademark that appears in this document without permission from the relevant owner.

TEXACO Chevron CALTEX
Chevron's Family of Brands

A Chevron company product
© 2025 Chevron Products Company. Asia-Pacific.
All Rights Reserved.