



RANDO[®] WM ISOCLEAN[®] CERTIFIED LUBRICANT 32

PRODUCT DESCRIPTION

Rando[®] WM 32 ISOCLEAN[®] Certified Lubricant is a high performance multigrade hydraulic fluid designed for use in wind turbine systems and a wide range of other applications. Rando WM 32 offers high level protection and performance under severe operating conditions.



Rando WM 32 ISOCLEAN Certified Lubricant provides good low temperature fluidity with a high viscosity index (VI) and therefore offers a wide operating temperature window. This product complies with Swedish Standard SS 15 54.34.

Chevron ISOCLEAN Certified Lubricants have been certified to meet specified ISO Cleanliness standards at point of delivery using industry leading filtration and testing technology. ISOCLEAN Certified products are the first step for contamination control and maximizing component life.

CUSTOMER BENEFITS

Rando WM 32 ISOCLEAN Certified Lubricant delivers value through:

- **Ready to use** — Enables users to meet stringent original equipment manufacturers' cleanliness standards for fill lubricants.
- **Flexibility** — ISO Cleanliness targets can be customized to fit your business application needs.
- **Peace of mind** — Each delivery of Chevron ISOCLEAN Certified Lubricant includes an ISOCLEAN Certificate of Analysis.
- **OE fluid cleanliness requirements** — Customized to meet specific equipment manufacturers' fluid cleanliness requirements.

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

© 2019 Chevron U.S.A. Inc. All rights reserved.

Chevron, the Chevron Hallmark, Rando and ISOCLEAN are trademarks owned by Chevron Intellectual Property LLC. All other trademarks are property of their respective owners.

- **Reliable low temperature fluidity** — Helps promote good pumpability and critical component wear protection during cold system start-up
- **Robust anti-wear and corrosion inhibitor systems** — Helps contribute to greater system uptime performance and reduced maintenance costs
- **Thermal stability performance** — Helps to protect against oil degradation, deposit formation and helps promote extended fluid service life
- **Dependable filtration characteristics in the presence of water contamination** — Helps reduce maintenance downtime
- **High shear stability** — Helps to assist reliable protection and trouble-free performance for the life of the fluid, under high temperature, high pressure conditions

FEATURES

Rando WM 32 ISOCLEAN Certified Lubricant offers:



- Wide temperature performance and extended service life
- Low temperature system start-up wear protection
- System wear and corrosion protection
- Reliable filtration performance in the presence of water
- Trouble-free performance under high temperature, high pressure conditions

1 April 2019
IO-178 ISOCLEAN

APPLICATIONS

Rando® WM 32 ISOCLEAN® Certified Lubricant is recommended for use in wind turbines and in many types of high pressure hydraulic systems operating across a wide ambient and operating temperature range.

Rando WM 32 ISOCLEAN Certified Lubricant is suitable for systems with gear, vane, radial and axial piston pumps.

Rando WM 32 ISOCLEAN Certified Lubricant is approved for:

- **Vestas Wind Systems** 0000-2843

Rando WM 32 ISOCLEAN Certified Lubricant meets the requirements of:

- **ASTM** D6158
- **DIN** 51524-3, HVLP
- **ISO** 6743-4 HV, 11158
- **Swedish Standard** SS 15 54 34, SMR 1996-2
- **Vickers** M-2950S, I-286

Refer to the service manual of the equipment to ensure that the minimum fluid viscosity requirements are met at the highest operating temperature. Please consult with your equipment manufacturer if equipment is operating outside normal operating conditions.

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Consult with your Chevron Lubricant Representative or Chevron ISOCLEAN Certified Lubricants Marketer to set specific ISO Cleanliness targets for your business application.

TYPICAL TEST DATA

	32
<i>Product Number</i>	274316
<i>SDS Number</i> U.S. Canada Mexico	26304 26304CAN 26304MEX
API Gravity	27.4
Density, ASTM D1298, kg/L @ 15°C	0.89
Viscosity, Kinematic cSt at 40°C cSt at 100°C	32.5 6.9
Viscosity, Saybolt SUS at 100°F SUS at 210°F	164.9 48.8
Viscosity Index	180
Flash Point, °C(°F)	150(302)
Pour Point, °C(°F)	-48(-54)
Kinematic Viscosity, ASTM D445, mm ² /s @ -30°C after 72 hours	3000
FZG, DIN 51354, Fail load stage	10

Minor variations in product typical test data are to be expected in normal manufacturing.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.