



# RANDO<sup>®</sup> WM

## 32

### PRODUCT DESCRIPTION

Rando<sup>®</sup> WM 32 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 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.

### CUSTOMER BENEFITS

Rando WM 32 delivers value through:

- **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 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



### APPLICATIONS

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

Rando WM 32 is approved for:

- **Vestas Wind Systems 0000-2843**

Rando WM 32 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.

Product(s) manufactured in Belgium.

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

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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.

### TYPICAL TEST DATA

|   | <b>32</b>     |
|---|---------------|
| <i>Product Number</i>   | <i>273284</i> |
| <i>SDS Number</i>   | <i>26304</i>  |
| API Gravity   | 27.4          |
| Density, ASTM D1298, kg/L @ 15°C  | 0.89          |
| Viscosity, Kinematic<br>cSt at 40°C<br>cSt at 100°C                             | 32.5<br>6.9   |
| Viscosity, Saybolt<br>SUS at 100°F<br>SUS at 210°F                              | 164.9<br>48.8 |
| Viscosity Index   | 180           |
| Flash Point, °C(°F)   | 150(302)      |
| Pour Point, °C(°F)  | -48(-54)      |
| Kinematic Viscosity,<br>ASTM D445, mm <sup>2</sup> /s @ -30°C after<br>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.

