



Rando® WM 32

High Performance Wind Turbine Hydraulic Fluid

Product Data Sheet

Customer benefits

- **Longer service life**
Thermal stability helps minimize oil degradation and deposit formation, offering extended oil service life and drain intervals.
- **Protects equipment**
Good anti-wear performance and corrosion resistance promotes increased system uptime and reduced maintenance costs. Reliable filterability in the presence of water helps reduce maintenance time and helps reduce cost.
- **Low temperature pumpability**
Low pour point offers optimum pumpability, component lubrication and protection in low temperature start-ups.
- **Hydraulic system efficiency**
Shear stable high viscosity index improver designed to provide optimum efficiency at high operating temperature, thus increasing operating temperature range.

Applications

Recommended for use in:

- Wind turbines
- High pressure hydraulic systems operating across a wide ambient and operating temperature range
- Suitable for use with gear, vane, radial and axial piston pumps

Performance standards

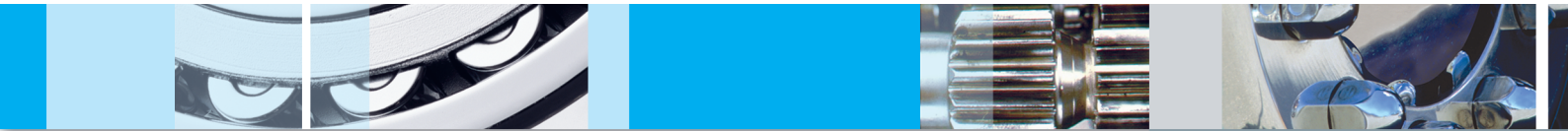
Rando® WM 32 are approved against:

- Vestas Wind Systems 0000-2843
- Vickers M-2950S, I-286

Product features:

- **Rando® WM 32** is a high performance multigrade hydraulic fluid designed for use in both wind turbine systems and a wide range of other applications where optimum protection is required under severe operating conditions.
- **Rando® WM 32** hydraulic fluid formulated with reliable low temperature fluidity and a high viscosity index (VI) offering a wide operating temperature window.

A **Chevron** company product



Rando® WM 32 also meet the requirements of various industry standards:

- ISO 6743 HV
- DIN 51524 Part 3, HVLP
- Swiss Standard SS15 54 34
- Swiss Standard SMR 1996-2

Product specifications

RANDO® WM 32 KEY PROPERTIES	RESULTS
Product Code	520218
Kinematic viscosity, mm ² /s @ 40°C	32.0
mm ² /s @ 100°C	7.41
Viscosity Index	211
Flash Point, °C	172
Pour Point, °C	-45
Density at 15°C	0.8910
FZG Damaged Load, A/8.3/90	11
Hours to TAN 2.0 mgKOH/g, h	2000+
TAN, mgKOH/g	0.45

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by Chevron Global Lubricants.

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 www.caltexoils.com

For more information, go to www.chevronlubricants.com