Chevron

marine lubricants

Regal® R&O

Description

Regal® R&O is a premium-quality rust- and oxidation-inhibited turbine oil. It is manufactured from highly refined paraffinic base oils. It contains oxidation, corrosion, and foam inhibitors. The oil has good water separating properties, high oxidation stability, first-rate anti-corrosion properties, and low carbon forming tendency.

Typical Characteristics

ISO Viscosity Grade	32	46	68	100	320
MPID	**219342**	**219343**	**219341**	**219344**	**219940**
Density at 15°C, kg/l	0.88	0.87	0.86	0.88	0.89
Kinematic viscosity at 40°C, mm²/s	30.4	43.7	64.6	95.0	43.7
Kinematic viscosity at 100°C, mm²/s	5.2	6.5	8.4	10.8	6.5
Viscosity Index	100	98	99	97	98
Pour point, °C	–15	–15	–15	–15	–15
Flash point COC, °C	220	224	245	215	252
Oxidation (ASTM D 943), hrs to TAN = 2.0 mg KOH/g	3000+	3000+	3000+	5500+	1800+
Rust test, synthetic seawater	PASS	PASS	PASS	PASS	PASS
FZG, Pass Stage, DIN 51354	10	10	10	10	—
Air release @ 50°C, mins	2.1	2.0	3.0	10	—

Recommended Applications

Regal R&O is recommended primarily for use in marine turbines of all types. These include steam, hydraulic and gas turbines. Regal R&O also provides good performance in hydraulic machinery, circulating oil systems, all applications where a high-quality, stable lubricant with good water-separating characteristics is required and non-heavy duty hydraulic systems where OEM recommends R&O type oils (for heavy duty hydraulic systems, customers should consider Rando HDZ hydraulic oil). These products can also be used as a general-purpose machine oil for shop use when R&O type oil is needed or is recommended. The multifunctional characteristics of Regal R&O type oils may allow them to replace other special application lubricants, which can result in reduced inventory and operating cost.

Regal R&O Meets The Requirements Of:

- ☑ **Alstom** HTGD 90117
- ☑ **ASTM** D4304
- ☑ **British Standard** 489
- ☑ **DIN** 51515

Regal R&O Is Approved For:

- ☑ **Heisin Pumps** (VG 68)
- ☑ **Regulateur Europa** (VG 68 & VG 100)
- ☑ **IMI Norgen** (VG 46)

Performance Benefits

1. Oxidation Stability

Aims to provide long service life free from deposits, sludge, and acidic oxidation products, thus avoiding sticking valves, and ensuring good bearing protection.

2. Rust Protection

Aims to protect against corrosion or rusting of costly precision parts.

3. Water Separation

Assists with speedy removal of contaminating water from leaks and condensation.

4. Foam Inhibited

With an effective surface-foam suppressant, it often resists foaming which can generally ensure smooth functioning of governors and minimizes the risk of sump overflow.

5. Air Release Properties

A balanced combination of inhibitors prevents air locking of oil circulating pumps due to entrained air. This often provides smooth and trouble-free operation of lubricating oil systems.

6. Potential inventory savings

Rust and oxidation inhibited formulation has multipurpose capability in a wide range of industrial applications for which this type of product is recommended, helping to simplify oil inventories and reduce the possibility of using the wrong lubricant.