



# EOLAN R&O

## (Non-detergent Circulating Oil)

**EOLAN R&O** is a series of premium quality rust and oxidation inhibited petroleum mineral oils. **EOLAN R&O** oils are blended from selected paraffinic base oils and a balanced additive package to provide excellent performance in air compressors, industrial turbines and other applications where high quality R & O type oil is required.

One of the primary features of **EOLAN R&O** oils is their outstanding oxidation resistance. It achieved a 5,000-hour oxidation life in the demanding ASTM D-943 Turbine Oil Oxidation Test (TOST). This is considerably longer than conventional oils and indicates that **EOLAN R&O** oils can withstand high operating temperatures for extended periods. This is especially important for air compressors where the oil is subjected to elevated temperatures throughout its useful life. In fact, many operators have discovered that the use of **EOLAN R&O** oils can often allow them to extend oil drain intervals, considerably reducing oil cost, maintenance cost and increasing productivity.

In addition, this high oxidation resistance serves to reduce sludge, varnish and carbon deposits. Such deposits inhibit equipment operation and can become a safety hazard. **EOLAN R&O** oils provide freedom from such harmful deposits and improve overall equipment reliability.

Another important benefit of **EOLAN R&O** oils is their superior ability to separate from water. The ASTM D-1401 demulsibility test measures whether an oil-water emulsion separates and the time required for the separation. Many conventional oils require 30 or more minutes to separate or form stable emulsions. **EOLAN R&O** oils separate completely from water in only 10 minutes. In practice, this allows the water to settle rapidly to the bottom of the oil reservoir where it can be drained off, preserving the oil.

**EOLAN R&O** oils also contain special inhibitors to protect metal surfaces from rust and corrosion, even when water is present. Also, a highly effective additive prevents foaming and limits air entrainment.

### **BENEFITS:**

- REDUCES HARMFUL DEPOSITS
- EXTENDS OIL DRAIN INTERVALS
- RESISTS FOAMING
- SEPARATES QUICKLY FROM WATER
- VERSATILE
- REDUCES MAINTENANCE COST

### **APPLICATIONS:**

**EOLAN R&O** oils are recommended for a wide variety of applications including air compressors, steam turbines, hydroelectric turbines, pumps, machine tools, splash or ring oiled bearings, and other applications where a high quality, rust and oxidation inhibited oil is required. They are especially useful in reciprocating, rotary screw and rotary vane air compressors where their excellent oxidation stability prevents deposits and extends oil life.

**EOLAN R&O** oils also meet the specifications set by the American Gear Manufacturers Association (AGMA) for non-extreme pressure gear lubricants. This makes **EOLAN R&O** oils suitable for use in many speed reducers and gear cases. **EOLAN R&O** oils exhibit good low temperature flow properties, making it ideal for centralized systems such as circulating oil systems and oil mist systems.



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### TYPICAL CHARACTERISTICS

ISO Viscosity Grade	32	46	68	100	150	220	320	460
Product Code	15160	15161	15162	15163	15164	15165	15166	15169
AGMA Grade	-	1	2	3	4	5	6	7
API Gravity	32.5	31.0	30.9	29.6	28.5	28.3	27.5	26.0
Viscosity (ASTM D-445):								
cSt @ 40°C	31	45	66	101	150	210	310	460
cSt @ 100°C	5.2	6.6	8.4	11.1	14.5	18.2	23.5	29.4
Viscosity Index	96	97	96	95	95	95	95	91
Pour Point (ASTM D-97) °F (°C)	-20 (-29)	-20 (-29)	-15 (-26)	0 (-18)	0 (-18)	0 (-18)	5 (-15)	5 (-15)
Flash Point (ASTM D-92) °F (°C)	405 (207)	410 (210)	430 (221)	475 (246)	485 (252)	510 (266)	535 (279)	550 (288)
Color (ASTM D-1500)	1.5	2.0	2.0	3.0	4.5	5.0	5.5	6.5
Turbine Oil Oxidation Test (D-943) Hours to 2.0 TAN	5000	4500	4000	3000	2000	1500	-	-
Rotary Bomb Oxidation Test (ASTM D-2272) minutes	600	550	500	450	350	300	250	200
Foam Test (ASTM D 972)								
Sequence I	5/0	5/0	5/0	-	-	-	-	-
Sequence II	40/0	40/0	40/0	-	-	-	-	-
Sequence III	0/0	0/0	0/0	-	-	-	-	-
Rust Resistance (ASTM D-665)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Emulsion Testing* (ASTM D-1401)								
Minutes to separate	10	15	15	10	10	15	15	15
Oil/Water/Emulsion, ml	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0

\*D 1401 testing is run at 130 F for grades 22 to 68. It is run at 182 F for ISO grades 100 or higher

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.

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