Lube Control Pty Ltd

Product Information

Monolec® R & O Compressor / Turbine Oil (6401-6407)

Versatile Oil Provides Long-Term Anti-Wear Protection

Monolec® R & O Compressor / Turbine Oil is a versatile, heavy-duty oil designed to prolong equipment life by combating the effects of high temperatures, water, contaminants and heavy loads that accelerate wear. Available in seven different viscosity grades, it is ideally suited for use in all types of air compressors and oil circulating systems.

This long-lasting, nonfoaming, turbine-quality oil provides peace of mind by ensuring that your equipment works when it is needed, whether you run it intermittently or continuously. With its superior resistance to heat, oxidation and moisture, Monolec R & O Compressor / Turbine Oil significantly outperforms ordinary commercial air compressor and turbine oils. It contains Monolec, LE's exclusive wear-reducing additive, as well as highly effective rust and oxidation inhibitors.

Beneficial Qualities

Provides Long-Lasting Protection

- Provides long oil service life under high heat conditions
- Extends oil drains by four to six times vs. ordinary oils
- Reduces maintenance costs
- Makes it easier to trace leaks due to red color
- Prolongs equipment life

Reduces Wear, Operating Temps & Energy Use

- Possesses exceptional film strength, protecting moving parts from wear and scuffing
- Minimizes viscosity changes as temps vary, resulting in better separation of metal surfaces
- Maintains uniform lubricant layer due to highly effective foam suppressant that breaks up air bubbles as they form
- Eliminates overheating and automatic shutdowns
- Reduces frictional drag, lowering power consumption

Protects Against Water, Rust & Corrosion

- Separates rapidly from water, allowing excess water to accumulate for easy drain-off
- Provide exceptional resistance to moisture, particularly effective during periods of shutdown when cooling may cause condensation
- Protects metal surfaces against rust and corrosion, even in sensitive silver, copper and copper-lead bearings

Minimizes Carbon, Varnish & Sludge

- Inhibits carbon formation and deposits
- Reduces acids and insoluble products caused by oil oxidation
- Prevents sludging during service
- Keeps systems clean and operating smoothly

Proprietary Additives

LE's proprietary additives are used exclusively in LE lubricants. Monolec® R & O Compressor / Turbine Oil contains Monolec.

Monolec® wear-reducing additive creates a single molecular lubricating film on metal surfaces, vastly increasing oil film strength without affecting clearances. An invaluable component in LE's engine oils, industrial oils and many of its other lubricants, Monolec allows opposing surfaces to slide by one another, greatly reducing friction, heat and wear.

Lubrication Engineers, Inc.

Asset Reliability Solutions™

Technical Data

Monolec® R & O Compressor / Turbine Oil

	6401	6402	6403	6404	6405	6406	6407
Color	Red	Red	Red	Red	Red	Red	Red
ISO VG / SAE Grade	32 / –	46 / –	68 / 20	100 / 30	150 / 40	220 / 50	320 / 60
AGMA Grade	–	–	2	3	4	5	6
Gravity, °API ASTM D1298	32.0	31.1	30.6	30.1	29.1	28.4	27.8
Viscosity @ 100°C, cSt, ASTM D445	5.34	6.72	8.63	11.42	14.95	19.67	25.08
Viscosity @ 40°C, cSt, ASTM D445	31.87	45.23	67.60	98.27	150.1	225.6	325.7
Viscosity Index ASTM D2270	95	95	95	95	95	95	95
Flash Point °C (°F), (COC), ASTM D92	210 (410)	216 (420)	224 (435)	238 (460)	246 (475)	244 (470)	246 (475)
Pour Point °C (°F), ASTM D97	-30 (-22)	-24 (-11)	-24 (-11)	-15 (5)	-12 (10)	-12 (10)	-12 (10)
Rust Test 4 hrs @ 60°C, Sea H_2O, ASTM D665B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1b	1b	1b	1b	1b	1b	1b
Oxidation by RPVOT @ 150°C, minutes, ASTM D2272	700	700	700	700	700	700	700

Performance Requirements Met or Exceeded

- AGMA 9005-D94
- Baker Perkins 69-D (6401)
- Cincinnati Machine
  - P-68 (6401)
  - P-69 (6403)
  - P-70 (6402)
- Diamond Power Soot Blowers (6401)
- General Mills “B” Lubricants
- USDA H2
- Xerox 36-0028 (6401)

Typical Applications

- Air compressors
- Air line oilers
- Bearings
- Blowers
- Circulating & splash systems
- Gearboxes
- Industrial turbines
- Vacuum pumps

Monolec® is a registered trademark of Lubrication Engineers, Inc

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LE operates under an ISO 9001 Certified Quality System.