



TECHNICAL DATA BULLETIN

**6401-6407
MONOLEC®
R&O Compressor / Turbine Oil**

DESCRIPTION:

Heavy-duty R&O (rust and oxidation) inhibited turbine quality oil offering outstanding heat resistance and anti-wear protection. Suitable for use in air compressors, industrial turbines, pumps, bearings, circulating oil systems and as an R&O gear oil. Outstanding rust and oxidation resistance. Compounded with select 100% paraffinic base stocks for minimum carbon deposits. Provides high-performance anti-wear protection for increased bearing and gear life. Excellent water separating capabilities. Contains MONOLEC®, LE's exclusive wear-reducing additive.

PHYSICAL CHARACTERISTICS—TYPICAL:

	6401	6402	6403	6404	6405	6406	6407
ISO Grade	32	46	68	100	150	220	320
AGMA	—	—	2	3	4	5	6
Equivalent SAE Grade	—	—	20	30	40	50	60
Gravity, °API	32.0	31.1	30.6	30.1	29.1	28.4	27.8
Viscosity,							
SUS @ 100°F	163.9	232.4	349.3	509.6	784.6	1187	1725
SUS @ 210°F	43.85	48.43	54.93	65.04	78.97	99.08	123.4
cSt @ 40°C	31.87	45.23	67.60	98.27	150.1	225.6	325.7
cSt @ 100°C	5.34	6.72	8.63	11.42	14.95	19.67	25.08
Viscosity Index, min.	95	95	95	95	95	95	95
Flash Point, °F (°C)	410 (210)	420 (216)	435 (224)	460 (238)	475 (246)	470 (244)	475 (246)
Pour Point, °F (°C)	-22 (-30)	-11 (-24)	-11 (-24)	5 (-15)	10 (-12)	10 (-12)	10 (-12)
Color	Red	Red	Red	Red	Red	Red	Red

PERFORMANCE TEST RESULTS:

Copper Strip Corrosion, ASTM D-130, Color Code	1b	1b	1b	1b	1b	1b	1b
Salt Water Rust Test, 24 hrs. ASTM D-665	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Oxidation Stability, ASTM D-943, hrs.	5000	5000	5000	5000	5000	5000	5000
Rotary Bomb Oxidation Test, ASTM D-2272, min.	700	700	700	700	700	700	700

SPECIFICATIONS EXCEEDED:

AGMA 9005-D94
 Approved by Cincinnati Machine: 6401 P-68
 6403 P-69
 6402 P-70

General Mills "B" Lubricants
 Baker Perkins 69-D: 6401
 USDA H2
 Diamond Power Soot Blowers: 6401
 Xerox 36-0028: 6401

APPLICATION:

Air compressors, vacuum pumps, circulating oil systems, air line oilers, bearings, gearboxes (calling for R&O oils) and other long service applications.

LUBRICATION ENGINEERS, Inc.

BENEFICIAL QUALITIES:

Contains MONOLEC[®], LE's exclusive wear-reducing additive.

Specially selected 100% paraffinic base oils and exclusive additive package work together to inhibit carbon formation and deposits.

Special oxidation inhibitor gives long oil service life under high heat conditions. Reduces acids and insoluble products of oil oxidation. ASTM D-943 Oxidation Test gives at least 5,000 hours before oil reaches 2.0 neutralization number.

Exceptional rust protection. Rust inhibitor protects metal surfaces and seals from moisture. Particularly effective during periods of shutdown, where cooling may cause condensation. Exceeds ASTM D-665 Salt Water Rust Test.

Best lubrication for gears, bearings and governor control mechanisms.

Prevents sludging during service.

Protects against corrosive wear.

Reduces bearing wear. Protects sensitive bearing materials; no corrosion in silver, copper and copper-lead bearings.

Especially applicable for long service and heavy-duty construction equipment.

Rapid separation from water.

High film strength to protect moving parts.

Special anti-wear additive controls corrosive wear and scuffing wear. Assures longer life for bearings and rubbing surfaces.

Long service means less labor costs for changing oil and cleaning systems, and less downtime on turbine.

High natural viscosity index. Less change in viscosity as temperature changes. Retains natural VI.

Non-foaming in service.

CAUTION:

Excessive upper cylinder lubrication is harmful to the reciprocating compressor. Use minimum amounts of LE's MONOLEC R & O Compressor / Turbine Oil in relation to the upper cylinder size. See Table in the LE Air Compressor Lubrication Recommendation Chart.

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