TECHNICAL DATA BULLETIN

9032-9150 MONOLEC® Synthetic Industrial Oil

LEADERS IN LUBRICANTS

DESCRIPTION:

Pure 100% synthetic oils, compounded with anti-wear additives as well as other additives to provide reduced wear, low deposit forming tendency, outstanding oxidation and water resistance. These lubricants provide excellent compatibility with seals. Contains MONOLEC®, LE's exclusive wear-reducing additive.

PHYSICAL CHARACTERISTICS—TYPICAL:

	9032	9046	9068	9100	9150
ISO Grade	32	46	68	100	150
Gravity, °API	35.1	34.5	34.0	33.5	33.9
Viscosity,					
SUS @ 100°F	164.1	238.0	350.6	507.4	773.1
SUS @ 210°F	46.25	52.55	62.01	76.97	100.4
cSt @ 40°C	32.18	46.80	68.78	99.42	150.9
cSt @ 100°C	6.08	7.96	10.63	14.51	20.08
Viscosity Index, min	130	130	130	130	130
Flash Point, °F (°C)	465 (240)	480 (248)	470 (244)	470 (244)	470 (244)
Pour Point, °F (°C)	-65 (-54)	-60 (-51)	-49 (-45)	-44 (-42)	-38 (-39)
Color	Green	Green	Green	Green	Green

PERFORMANCE TEST RESULTS:

Copper Corrosion, ASTM D-130	1b	1b	1b	1b	1b
Evaporation Loss, %, ASTM D-972	0.77	0.77	0.76	0.76	0.76
Conradson Carbon, wt%					
ASTM D-189	0.24	0.25	0.26	0.25	0.24
Ramsbottom Carbon, wt %					
ASTM D-524	0.27	0.26	0.26	0.27	0.25
Four Ball Wear, mm @ 1800 rpm,					
40 kg, 54°C, ASTM D-4172	0.40	0.40	0.40	0.40	0.40
Emulsion Characteristics					
ASTM D-1401	40-40-0 (5 min)	40-40-0 (5 min)	40-40-0 (5 min)	40-40-0 (5 min)	40-40-0 (5 min)
Rust Test, ASTM D-665B	Pass	Pass	Pass	Pass	Pass
Foam Test					
ASTM D-892, all sequences	0/0	0/0	0/0	0/0	0/0
Rotary Pressure Vessel Oxidation, mins.,	1300	1300	1300	1300	1300
ASTM D-2272					

APPLICATION:

Rotary air compressors and vacuum pumps. Reciprocating air compressors and reciprocating vacuum pumps. Can be used as circulating oil, hydraulic oil and in many low temperature and high temperature non-EP applications. Suitable for use as dryer chain lubricant. AGMA R & O Gear Oil. Can also be used in low temperature and high temperature fluid power drives.

LUBRICATION ENGINEERS, Inc.®

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BENEFICIAL QUALITIES:

Exceptionally long life oil. Delivers five to eight times longer service life than petroleum oils.

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

Meets the requirements of AGMA 9005-D94.

USDA H2.

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

Best rust protection. Additive “plates out” to seal off metal surfaces from moisture.

Much less labor cost for changing oil and cleaning systems. Less downtime. Reduced oil disposal cost.

Extremely high natural Viscosity Index. Less change in viscosity as temperature changes.

Retains high VI in service.

Completely nonfoaming in service.

Longer equipment life.

Outstanding oxidation and thermal stability.

Low deposit forming tendencies. Eliminates “hard” carbon deposits.

Greatly reduces possibility of receiver fires and explosions in compressors.

Less makeup oil required due to the low volatility of these oils.

Extended drain intervals as a result of outstanding oxidation resistance.

Cooler, cleaner operation—a result of fewer carbon deposits, much less sludge and almost no varnish formation.

Excellent compatibility with seals.

CHANGEOVER PROCEDURES:

To realize the full benefits of LE's MONOLEC® Synthetic Industrial Oils, certain routine procedures are recommended when changing over a compressor from another type of lubricant. These procedures are required because of the excellent cleaning action which tends to dissolve, loosen and remove any existing deposits. Basically all compressor and downstream parts which will be in contact with these superior oils should be as clean as practical before the changeover. Detailed changeover procedures are available upon request.

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