



TECHNICAL DATA BULLETIN

**6461-6463
MONOLEC®
Turbine Oil**

LEADERS IN LUBRICANTS

DESCRIPTION:

A premium quality turbine oil line formulated using select paraffinic base oils coupled with a synergistic mix of additives that provides excellent performance in mainline steam and gas turbine applications. The MONOLEC® Turbine Oil formula provides excellent water separation characteristics, nonfoaming performance, rust and oxidation inhibition, and anti-wear properties. It contains MONOLEC®, LE's proprietary wear reducing additive.

PHYSICAL CHARACTERISTICS - TYPICAL:

	<u>6461</u>	<u>6462</u>	<u>6463</u>
ISO Grade	32	46	68
Viscosity			
SUS @ 100°F	153.0	237.0	356.9
SUS @ 210°F	43.22	48.75	55.64
cSt @ 40°C	29.73	46.12	69.1
cSt @ 100°C	5.14	6.82	8.83
Viscosity Index	95	95	95
Gravity °API	32.2	31.6	30.7
Flash Point °F (°C)	442 (228)	455 (234)	460 (238)
Pour Point, °F (°C)	-22 (-30)	-22 (-30)	-11 (-24)
Color	Amber	Amber	Amber

PERFORMANCE TEST RESULTS:

Rust Test, ASTM D665B (Sea Water)	Pass	Pass	Pass
Copper Corrosion, ASTM D130	1b	1b	1b
Oxidation Test, Hours, ASTM D943	17,000+	17,000+	17,000+
Total Acid Number, ASTM D974	0.15 Max.	0.15 Max.	0.15 Max
Ash, Sulfated Mass, %, ASTM D874	0.05	0.05	0.05
Rotating Pressure Vessel			
Oxidation Test, Min, ASTM D2272	915	915	915
Water Separation, ASTM D1401	40-40-0 (5 min.)	40-40-0 (5 min.)	40-40-0 (5 min.)
Foam Test, ASTM D892			
Tendency/Stability			
Sequence I	0/0	0/0	0/0
Sequence II	0/0	0/0	0/0
Sequence III	0/0	0/0	0/0
Air Release, Min., ASTM D3427	2.3	2.3	2.3
Color, ASTM D1500	1	1	1
Panel Coker, mg, FTM 3462	134	134	134
Filterability (wet), Stage I, ISO 13357	Pass	Pass	Pass
Low Temperature Stability, FTM 3458	Pass	Pass	Pass
Four-Ball Wear, mm @ 40kg, ASTM D4172	0.42	0.42	0.42

APPLICATION:

Mainline steam and gas turbine generators, circulating oil systems, centrifugal compressors and other long-service life applications.

APPROVALS AND SPECIFICATIONS EXCEEDED:

MIL-H-17672D 2075 TH	Cincinnati Machine P-38	General Electric GEK-32568B
General Electric GEK-46506C	General Electric GEK-46135	Solar Turbine ES9-224
DIN 51524 Part 1	Denison HF-1	Westinghouse IL1250-5312
Westinghouse IL 1250-4701B	Westinghouse IL 1250-72-E	USDA H2

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**LE PRODUCTS MANUFACTURED UNDER AN
ISO 9001:2000 CERTIFIED QUALITY SYSTEM**

BENEFICIAL QUALITIES:

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

Formulated using high quality, low volatility paraffinic base fluids.

Excellent oxidation stability allowing for extended drain intervals.

Excellent thermal stability eliminating varnish and sludge formation.

Separates readily from water.

Rapid air release properties.

Excellent rust protection.

Effective foam suppressant.

High film strength to protect moving parts.

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