



# TECHNICAL DATA BULLETIN

**6451  
MONOLEC<sup>®</sup>  
Turbine Oil**

## DESCRIPTION:

A premium quality R&O (rust and oxidation) and AW (anti-wear) oil designed specifically to meet the performance specifications of mainline turbine manufacturers. Made from high quality paraffinic base oil. Nonfoaming. Excellent water separating characteristics. Contains MONOLEC<sup>®</sup>, LE's exclusive wear-reducing additive.

## PHYSICAL CHARACTERISTICS – TYPICAL:

ISO Grade	32
Gravity, °API	32.2
Viscosity	
SUS @ 100°F	153.0
SUS @ 210°F	43.22
cSt @ 40°C	29.73
cSt @ 100°C	5.14
Viscosity Index	95
Flash Point, °F (°C)	390 (198)
Pour Point, °F (°C)	-22 (-30)
Color	Red

## PERFORMANCE TEST RESULTS:

Rust Test, ASTM D-665B (48 hrs. Sea Water)	Pass
Copper Corrosion, ASTM D-130	1b
Oxidation Test, Hours, ASTM D-943	17,000+
Rotary Bomb Oxidation Test, Min., ASTM D-2272	915
Ash, Sulfated Mass, %, ASTM D-874	0.05
Water Separation, ASTM D-1401	40-40-0 (5 min.)
Foam Test, ASTM D-892	
Tendency/Stability	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Total Acid Number, ASTM D-974	0.15 Max.

## SPECIFICATION EXCEEDED:

MIL-H-17672D 2075TH	DIN 51524 Part 1
Cincinnati Machine P-38	Denison HF-1
General Electric GEK-32568B	Westinghouse IL 1250-5312
General Electric GEK-46506C	Westinghouse IL 1250-4710B
General Electric GEK-46135	Westinghouse IL 1250-72-E
Solar Turbine ES9-224	USDA H2

**LUBRICATION ENGINEERS, Inc.**

## **APPLICATION:**

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

## **BENEFICIAL QUALITIES:**

Contains MONOLEC<sup>®</sup>, LE's exclusive wear-reducing additive.

Long service life.

Exceptional rust protection. Exceeds ASTM D-665B.

Best lubrication for gear, bearings and governor controlled mechanisms.

Prevents sludging during service.

Completely non-corrosive to turbine parts.

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.

Effective foam suppressant.

USDA H2.

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