



LONG LIFE TURBINE OIL

PREMIUM LONG LIFE TURBINE OILS FOR USE IN INDUSTRIAL CIRCULATING SYSTEMS WHERE THE HIGHEST QUALITY RUST AND OXIDATION INHIBITED LUBRICANT AVAILABLE IS REQUIRED

Product Description: LONG LIFE TURBINE OIL is formulated with selected premium base stocks carefully refined to insure exceptional performance and long service life. Special inhibitors enhance the product by providing improved resistance to break down caused by oxidation and the formation of deposits on critical machinery surfaces. They also protect vital equipment parts from rust and corrosion both during operating service and when the equipment is idle. In addition, foam and air release properties are controlled by foam inhibitors and low temperature capability improved by a flow improver. In the ASTM D-943 "Turbine Oil Stability Test", Long Life Turbine Oil passes more than 10,000 hours indicating the ability to provide an extremely long service life.

LONG LIFE TURBINE OIL is formulated to meet the following equipment manufacturers turbine oil specifications (in the appropriate viscosity grade): Allis Chalmers Power System 1.3-0220, General Electric Steam Turbine GEK-46506C and Gas Turbine GEK-28143A and GEK-32568A, Solar ES 9-224, Westinghouse Steam Turbine 1L-1250-4710-B and Gas Turbine 1L-1250-5312, Mil-L-17672C, British Standard BS 849, German Standard DIN 51524 Part 1 and DIN 51515, AFNOR NFE 48-600 HL. The following industrial specifications are also targeted: AGMA R, R&O Gear Oils, US Steel 126, Cincinnati Milacron P-38, P-54, P-55, P-57, P-62, Alcoa ML 523, 570, 589, 601, 606, 625, 680, 682, 686, Haglund-Denison HF-1.

Features:

- Long service life due to unique base oil and additives.
- Excellent corrosion protection in the presence of water.
- Superior thermal stability.
- Foam inhibited to prevent air-entrainment and excessive foam buildup in service.
- Good hydrolytic stability when used in wet systems.

Typical Uses:

Recommended for:

- Steam Turbines
- Gas Turbines
- Hydraulic Systems
- Industrial Gear Cases
- Heat Transfer Systems
- Airline Lubricators
- Oil Circulating Systems
- General Machinery Lubrication

Typical Specifications:

GRADE, SAE	ASTM TEST	32	46	68	100
AGAM R&O Number		-	1	2	3
Gravity °API	D-287	29.9	29.8	29.4	31.7
Specific @ 15.6°C.		0.877	0.877	0.879	0.890
Viscosity:					
cSt. @ 40° C.	D-445	32.0	46.0	68.0	100
cSt. @ 100° C.	D-445	5.3	5.3	5.3	10.5
SUS @ 100° F.	D-2161	151	214	315	500
SUS @ 210° F.	D-2161	43.6	43.6	43.6	63.0
Viscosity Index	D-2270	96	97	96	98
Pour Point, °C.	D-97	-37	-21	-21	-21
Pour Point, °F		-35	-5	-5	-5
Flash Point, °C.		206	212	224	224
Flash Point, °F.	D92	403	413	435	435
Turbine Oil Oxidation (Hours)	D943	11,760	-	-	-
Rust Test	Passed	Passed			Passed
Distilled Water	Passed	Passed			-
Salt Water	-	-	-	-	-
Copper Corrosion: 3hrs @ 100°C.	1	1	1	1	1

**CONTAINS HIGH PERFORMANCE ADDITIVE CHEMISTRY.
VALUES SHOWN HERE ARE TYPICAL AND MAY VARY.**