



TURBINE OIL **(Premium R&O Oil)**

TURBINE OIL is a premium quality circulating oil made from highly refined paraffin base stocks and the finest additives available. It is specifically formulated to provide excellent chemical stability, filterability, rust protection and cleanliness. **TURBINE OIL** is highly recommended for use in gas turbines, and other applications requiring supreme quality turbine oil.

Gas turbine oils are often exposed to high temperatures that can cause sludge and varnish formation. **TURBINE OIL** is fortified with highly effective oxidation inhibitors to prevent deposit buildup. It exhibits outstanding performance in the two ASTM tests utilized to measure oxidation resistance (ASTM D-943 Turbine Oil Oxidation Test and ASTM D-2272 Rotary Bomb Oxidation Test.) As a result, **TURBINE OIL** provides long, trouble-free service life in severe service applications such as gas turbines. **TURBINE OIL** is fully qualified for use in turbines made by all the major U. S. manufacturers including General Electric Frame 7 units.

In addition to potent oxidation inhibitors, **TURBINE OIL** contains other important additives. Rust and corrosion inhibitors protect metal surfaces, even when salt water is present. Its special rust inhibitor does not gel in the presence of water and metal salts like many standard R&O oils.

A special anti-foam agent is used to provide superior foam resistance. This is especially important since foam reduces film strength and can lead to accelerated wear.

Another benefit of **TURBINE OIL** is its superior water separation ability. Water contamination is a common problem in circulation systems. **TURBINE OIL** rapidly separates from water so it can settle out in the reservoir and be drained off. **TURBINE OIL** separates completely within 10 minutes.

BENEFITS:

- PREVENTS SLUDGE AND VARNISH DEPOSITS
- PROVIDES LONG SERVICE LIFE
- RAPIDLY SEPARATES FROM WATER
- RESISTS FOAMING
- CHEMICALLY STABLE
- LOWERS MAINTENANCE COST

APPLICATIONS:

TURBINE OIL is recommended for use in circulating oil systems such as those found on turbines, pumps, compressors, and similar equipment. It meets or exceeds the requirements of all major manufacturers of such equipment.

TURBINE OIL meets the requirements of Solar gas turbines ES 9-224 (10/97) and GE gas turbine specifications GEK 32568E (5/99), GEK 101941 (3/95), GEK 28143A (6/92) and GE steam turbine specifications GEK 46506D (12/93) and GEK 27070 (3/91).



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TYPICAL CHARACTERISTICS

ISO Viscosity Grade	32	46	68	100
Product Code	15140	15141	15142	15143
API Gravity (ASTM D-1298)	31.8	31.0	30.9	29.6
Viscosity (ASTM D-445):				
cSt @ 40°C	30.0	45	66	101
cSt @ 100°C	5.12	6.6	8.4	11.1
SUS @ 100°F	155	232	342	528
SUS @ 210°F	43.2	48	55	64
Viscosity Index (ASTM D-2270)	97	97	96	95
Pour Point (ASTM D-97) °F (°C)	0 (-18)	-20 (-29)	-15 (-26)	0 (-18)
Flash Point (ASTM D-92) °F (°C)	405 (207)	410 (210)	430 (221)	475 (246)
Copper Corrosion (ASTM D-130)	1A	1A	1A	1a
Neutralization Number, mg KOH/g (ASTM D-664)	0.06	2.0	2.0	3.0
Turbine Oil Oxidation Test (ASTM D-943), Hours to 2.0 TAN	6,000	6000	5500	5000
Rotary Bomb Oxidation Test (ASTM D-2272) minutes	750	650	600	550
Foam Resistance (ASTM D-892):				
Sequence I	5/0	5/0	5/0	-
Sequence II	40/0	40/0	40/0	-
Sequence III	0/0	0/0	0/0	-
Demulsibility (ASTM D-1401)				
Oil/Water/Emulsion, ml	40/40/0	40/40/0	40/40/0	40/40/0
Time, minutes	10	15	15	10
Rust Resistance (ASTM D-665)	Pass	Pass	Pass	Pass
Color (ASTM D-1500)	1.5	2	2	3

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
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