



TURBINE OIL

Viscosity Grade – ISO VG 32, 46 & 68

Turbine Oil is a very high quality, rust and oxidation (R&O) inhibited circulating oil developed for use in industrial steam turbines and many other industrial applications. It is specially formulated to provide a very high level of oxidation resistance for long service life. Turbine Oil is formulated to provide excellent protection against rust, corrosion and deposit formation. It has excellent oxidation resistance and thermal stability at high temperatures to minimize sludge and varnish formation, and provide long service life. It protects system components against rust and corrosion. It has excellent water-separating properties to minimize the formation of emulsions, and is resistant to excessive foam buildup that can interfere with proper lubrication.

Meets the Specifications of:

- SIEMENS TLV 9013 04
- ALSTOM HTGD 90117
- GENERAL ELECTRIC GEK-32568F
- Solar Turbines ES 9-224
- DIN 51515

Typical Product Performance

Characteristics	ISO Viscosity Grade		
	32	46	68
Density @ 15 C, kg/l	0.872	0.875	0.879
Pour Point, C	-11	-10	-9
Flash Point, C	228	230	232
Kinematic Viscosity, cSt			
@ 40 C	31.82	46.75	68.301
@ 100 C	5.57	8.768	9.254
Viscosity Index	95	95	96





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The product typical may change without notice. However, the performance of the product would meet & exceed the API & OEM requirements.

Customer Benefits

- Excellent wear protection in all operating conditions.
- Superior thermal and oxidation stability to resist oil degradation and thickening for longer oil service life.
- Excellent air release and anti-foam properties to ensure trouble-free operation.
- Protects against sludge and varnish formation
- Protects against rust and corrosion
- Excellent water-separating properties
- Good foam resistance
- High level of resistance to heat soak-back after turbine shutdown
- Less deposit build-up and improved reliability and lower maintenance costs
- Long oil change life and lower product costs
- Reliable flow and lubrication during cold starts, even at very low temperatures
- Improved equipment protection at high temperatures
- Efficient system operation and less un-planned stoppages
- Excellent equipment protection and reduced equipment replacement costs

Recommended Oil Interval Changes

The frequency of turbine oil system recharges depends upon the application. In general large frame gas turbines could change their turbine oil every 5 to 7 years and the life of steam turbines is approximately double this. There are many steam turbines today that are operating with turbine oil that is greater than 15 or 20 years old, while hydro-electric turbines have been using the same oil for over 30 years. We recommend that you follow the oil and filter change done in frequencies as recommended by manufacturers as stipulated in your owner's manual.

