



## Turbine Oil

### PRODUCT DESCRIPTION

Bel-Ray® Turbine Oils are rust and oxidation inhibited industrial oils specifically engineered for the lubrication of medium and heavy-duty, high temperature gas, steam, and hydraulic turbine systems. Bel-Ray Turbine Oils offer superior protection from rusty water contaminated systems and aggressively prevent sludge and deposit formation caused by oil oxidation. In addition, Bel-Ray Turbine Oils protect against wear of critical components under severe operating conditions and systems that function under high temperatures and pressure.

### PRODUCT FEATURES

Bel-Ray Turbine Oil has exceptional thermal and oxidative stability. It is suitable for use in non-g geared gas and steam turbines where extreme temperatures are experienced and require circulation systems with exceptional high temperature stability. Bel-Ray Turbine Oil combines highly refined group II base stocks and a unique ashless, zinc-free formulation minimizing the formation of deposits in reservoirs, high temperature bearings and other hot areas of the turbine.

### BENEFITS

- Exceptional oxidation and thermal stability for long service life at severe temperatures
- Minimal deposit formation
- Maximum oxidation life for extended service intervals
- Exceeds industry and OEM oxidation requirements
- Excellent foam control and demulsibility (water separation)
- Formulated with premium base oil technology and an ashless, zinc-free additive package
- Outstanding rust and corrosion protection
- High viscosity index helps ensure minimum viscosity change when variations in temperature occur
- Fast air release minimizes possibility of pump cavitation in systems with high circulation rates and lesser residence time

### APPLICATIONS

Bel-Ray Turbine Oil is formulated to meet the critical demands of non-g geared gas, steam and hydroelectric turbine bearing lubrication and R&O service in marine reduction gears. They are additionally suitable for industrial severe service requiring an R&O, ISO 32, 46, 68 and 100 circulating oil with extended service capability.

- General Electric GEK32568J
- SIEMENS TLV 9013 04
- ALSTOM HTGD 90117
- Solar Turbines ES 9-224
- DIN 51515

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5/14/2026

## PRODUCT DATA

		Typical Properties					
Property	Test Method	32	68	100	150	220	460
ISO Viscosity Grade		32	68	100	150	220	460
API Gravity @ 60°F	ASTM D4052	32.9	30.4	29.6	29.2	28.6	27.7
Density @ 15°C (g/mL)	ASTM D4052	0.8603	0.8735	0.8779	0.8801	0.8833	0.8890
Viscosity @ 40°C (cSt)	ASTM D445	30.8	64.2	94.5	142.2	214.7	458.0
Viscosity @ 100°C (cSt)	ASTM D445	5.3	8.2	10.8	14.0	17.8	30.9
Viscosity Index	ASTM D2270	105	96	100	99	94	98
Flash Point, °C (°F)	ASTM D92	200 (392)	214 (417)	220 (428)	230 (446)	245 (473)	312 (594)
Pour Point, °C (°F)	ASTM D97	-46 (-50)	-33 (-27)	-32 (-25)	-31 (-23)	-30 (-22)	-6 (24)
Pounds per Gallon	ASTM D1250	7.167	7.278	7.314	7.332	7.360	7.402

## HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at [www.belray.com](http://www.belray.com)