

DESCRIPTION

Longlife Turbine Oil is a high-performance lubricant engineered from premium, high-viscosity paraffinic base stocks, fortified with a proprietary blend of advanced additives to ensure optimal functionality across a wide range of industrial applications. This meticulously formulated oil delivers exceptional resistance to oxidation, corrosion, and thermal degradation, significantly extending service life in closed circulating systems. Its extra-inhibited composition is tailored for demanding turbine applications, providing superior protection against rust, sludge formation, and wear under high-temperature and high-pressure conditions. **Longlife Turbine Oil** is recommended for use in various turbo systems, including steam turbines, gas turbines, turbo compressors, and other rotating equipment requiring robust lubrication. Its versatile performance ensures reliable operation, reduced maintenance, and enhanced equipment durability in industrial settings such as power generation, petrochemical processing, and manufacturing.

APPLICATIONS

Longlife Turbine Oils are designed for use in:

- Industrial steam, and light-duty gas turbines with gearboxes not requiring enhanced anti-wear performance
- Centrifugal and axial turbo-compressors, pumps, and systems needing robust rust and oxidation (R&O) control

SPECIFICATIONS & RECOMMENDATIONS

- ASTM D4304 Type I and III
- DIN 51515 Parts I & II
- ISO 8068 L-TSA and L-TGA
- Chinese Natl. Oil Std GB 11120-2011, L-T SA and TGA
- ALSTOM HTGD 90 117 V0001Y (non-EP)
- British Standard BS 489
- GEK 107395A, 32568K, 27070, 28143B and 46506E
- Siemens TLV 9013 04 (non-EP), TLV 9013 05 (non-EP)
- Solar ES9-224W

ADVANTAGES & BENEFITS

- **High Oxidative Stability:** Combines stable base oils with advanced inhibitors to resist oxidative degradation, extending oil life and minimizing corrosive acids, sludge, and deposits.
- **Thermal Resilience:** Offers excellent thermal stability, reducing carbon formation in air compressors and maintaining performance under high temperatures to lower maintenance costs.
- **Rust and Corrosion Resistance:** Zinc-free additives provide robust protection against rust and corrosion, ensuring equipment reliability during operation and shutdowns.
- **Effective Water Separation:** Strong demulsibility and water-release properties enable efficient water drainage in steam turbines, reducing corrosion and wear.
- **Foam and Air Release Control:** Anti-foam additives and rapid air-release minimize foam, cavitation, and oil oxidation, enhancing system reliability and reducing maintenance.

HEALTH & SAFETY

This product is not anticipated to pose any adverse health risks when used as intended.

For additional details, refer to separate Safety Data Sheets, available upon request.


TECHNICAL DATA/TECHNICAL PROPERTIES

PROPERTIES	ISO Viscosity Grade		
	32	46	68
Viscosity @ 40 °C, cSt	32	46	68
Viscosity Index	119	115	111
Pour Point, °C(°F)	-42 (-44)	-33 (-27)	-24 (-11)
Flash Point, °C(°F)	>220 (428)	>220 (428)	>220 (428)
Copper Corrosion, 3 hr at 100 C	1A	1A	1A
Steel Corrosion, ASTM 665 A & B	Pass	Pass	Pass
Oxidation (TOST), Hours	>12,000	>12,000	>12,000
Product Code	LLTO32	LLTO46	LLTO68

*All properties are typical and may vary.

Always adhere to the manufacturer's guidelines for the correct equipment fluid. Lubchem Specialties is not liable for any misuse of the product or improper application.