TURBINE OIL HX

ISO 46

REXOIL TURBINE OIL HX ISO 46 is a high-performance **synthetic turbine lubricant** formulated with high-quality synthetic base oils and a carefully balanced ashless additive system. It is specially developed to provide superior oxidation and thermal stability in turbines operating under high temperatures, heavy loads, and extended oil drain intervals.

This oil provides reliable wear protection, rust and corrosion resistance, and excellent film strength stability across a wide range of operating temperatures, ensuring high efficiency and long-term performance in steam turbines, gas turbines, turbo-compressors, and circulating lubrication systems. It is recommended for use in **steam and gas turbines (industrial and power generation), hydraulic turbines, turbo-compressors, circulating lubrication systems requiring extended oil life, as well as bearings and gearboxes** that require long-life, oxidation-resistant lubricants.

Features and Benefits

- **Synthetic Base Oil Technology:** Provides superior oxidation and thermal stability, enhanced lubricant life, and reliable performance under demanding operating conditions.
- **Outstanding Oxidation Stability:** Ensures long service life by resisting oil degradation, sludge formation, and viscosity increase during continuous high-temperature operation.
- **Advanced Rust and Corrosion Protection:** Provides reliable protection for ferrous and non-ferrous components, safeguarding turbine internals even in the presence of moisture.
- **Excellent Water Separation Properties:** Rapid demulsibility allows efficient removal of water from the lubrication system, maintaining oil integrity and preventing emulsions.
- **Superior Air Release Performance:** Promotes fast release of entrained air, helping maintain a stable lubricating film and preventing cavitation and pump instability.
- **Low Foaming Tendency:** Minimizes foam formation under circulation conditions, ensuring consistent lubrication and efficient system performance.
- **High Thermal and Chemical Stability:** Maintains performance under prolonged thermal stress, reducing varnish and deposit formation and supporting clean turbine operation.
- **Clean, Ashless Formulation:** Helps prevent deposit build-up, improves filterability, and supports long-term system cleanliness.
- **Reliable Circulating System Protection:** Provides consistent lubrication for bearings, control systems, and auxiliary equipment operating under continuous service conditions.

Approval and Specifications

DIN 51515 Part 2; JIS K2213 Type 2; ASTM D4304 Type I-II; ALSTOM HTGD 90117; SIEMENS TLV 9013 04; SIEMENS TLV 9013 05; AIST 120; BS 489; General Electric GEK 32568 A/C; CEGB 207001; SOLAR ES 9-224W Class II; BS 489; ISO 11158 HH and HL

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Technical Specifications

Test	Method	Typical Values
ISO GRADE		**46**
Kinematic Viscosity (40°C) [cSt]	ASTM D445	41,4 – 50,6
Total Acid Number, mgKOH/g	ASTM D 664	Max. 0,1
Viscosity Index	ASTM D2270	Min.120
Flash Point, °C	ASTM D92	Min. 220
Pour Point, °C	ASTM D97	Max. -33
RPVOT, min.	ASTM D2272	Min. 1.000
Copper corrosion, 3 hours @100℃	ASTM D130	Max.1b

Health and Safety

This product does not pose a significant health or safety risk when used appropriately. For detailed safety information, please refer to the Safety Data Sheet (SDS).

Storage & Handling

Store in a cool, dry, and well-ventilated area, away from direct sunlight and moisture. Keep containers tightly closed to prevent contamination. Dispose of contents and containers in accordance with local regulations.

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