

INDUSTRIAL TURBINES OIL

Premium Mineral Technology

TURBO GST-LUBE

PRODUCT DESCRIPTION:

Zinc-Free turbine lubricants specifically designed for use in gas and steam turbine applications. Formulated with carefully selected base stocks and additives, including antioxidants, rust and corrosion inhibitors and anti-foam agents. These components provide outstanding resistance to oxidation and chemical degradation over time. It exhibit excellent water separability, resistance to emulsion formation and anti-foaming characteristics which provide reliable operation. Their enhanced air release properties are critical for turbine hydraulic control mechanisms.

Nuovo Pignone SOM 17366

Applications:

Electric power generation for high output base load utilities

Gas Turbine Combined Cycle Power Plants operating in base load or peak generation modes

Gas turbines in Captive Power plants

Gas or steam turbine prime movers

Hydroelectric turbine applications

Meets and Exceeds Performance Levels:

ISO 8068 TSA/TGA Siemens TLV 9013 04

DIN 51515-1 TD ASTM D 4304 Type I

BS 489:1999 JIS K 2213 -1983 Type II

Ansaldo Energia 606W807 Rev.C (2012) Doosan Skoda Power

Mitsubishi Spec. NO. E00-001 Rev.2

Typical Properties:

GE GEK 28143B

Property

Grade	ISO 32	ISO 46	ISO 68
Air Release, 50 C, min, ASTM D3427	2	3	4
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1B	1B	1B
Density @ 15 C, g/cm3, ASTM D1298	0.85	0.86	
Emulsion, Time to 3 mL Emulsion, 54 C, min, ASTM D1401	10	10	10
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1	6	6	
Flash Point, Cleveland Open Cup, °C, ASTM D92	228	230	242
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	5.5	6.8	8.6
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	30	44	64
Neutralization Number, mgKOH/g, ASTM D974	0.1	0.1	0.1
Pour Point, °C, ASTM D97	-30	-30	-30
Rotating Pressure Vessel Oxidation Test, min, ASTM D2272	1000	1000	1000
Rust Characteristics, Procedure B, ASTM D665	PASS	PASS	PASS

Turbine Oil Stability Test, Life to 2.0 mg KOH/g, h, ASTM D943	10000	10000	8000
Viscosity Index, ASTM D2270	117	113	110