



INDUSTRIAL TURBINE



DESCRIPTION

TURBINE series consists of premium quality lubricants for turbines and turbo-compressors where a high quality mineral-based oil is required with high oxidation stability. The hydrotreated base oils together plus the special additive system ensure good anti-oxidation, anti-corrosion and demulsification properties with the absence of foam formation during service.

APPLICATIONS

The series is suitable for steam and medium duty gas turbines plus the lubrication of gear boxes and auxiliary turbine and control systems. They can be used in rotary and dynamic air compressors, in centrifugal pumps, in vacuum pumps, as well as in geared pumps, which operate in low pressure (<100 psi) and low revs (<1200 rpm) and require anti-rust and oxidation protection (R&O), always in accordance with the manufacturers' instructions.

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
Superb protection against rust and oxidation.	Long service life without acid and sludge formation. Superior cleanliness.
Very good demulsification and de-aeration.	Rapid separation of water entrained in the system. Maximum lubrication efficiency.
Excellent thermal and oxidative stability.	Minimizes deposits build up.

PHYSICAL-CHEMICAL CHARACTERISTICS

TURBINE	METHOD	ISO 32	ISO 46	ISO 68	ISO 100
Density at 15°C, g/cm ³	ASTM D1298	0,8600	0,8690	0,8820	0,8860
Viscosity, Kinematic @ 40°C, cst.	ASTM D445	32	46	68	100
Viscosity, Kinematic @ 100°C, cst.	ASTM D445	5,4	6,8	8,6	11,1
Viscosity index	ASTM D2270	105	102	97	95
Flash point, COC, °C	ASTM D92	210	228	240	256
Pour point, °C	ASTM D97	-15	-15	-12	-12
Emulsion test, minutes	ASTM D1401	5	10	10	20
Rust test	ASTM D665	Pass	Pass	Pass	Pass
Foam test (tendency/stability), ml	ASTM D892	10/0	10/0	10/0	20/0
Oxidation stability (RPVOT), minutes	ASTM D2272	840	840	840	845
Oxidation stability (TOST), hrs	ASTM D 943	>3.500	>3500	-	-
Acid Number, mg KOH/g	ASTM D 974	<0.2	<0.2	<0.2	<0.2
Copper corrosion	ASTM D130	1a	1a	1a	1a

The above mentioned characteristics represent mean values.

SPECIFICATIONS

DIN 51515 LTD Part II; ISO 6743-5 (ISO-L-TGA, ISO-L-TSA); AGMA R&O; B.S. 489; U.S. MIL-L-17672D; Siemens TLV 9013 04
Meets: GEK 117064 (ISO 46)