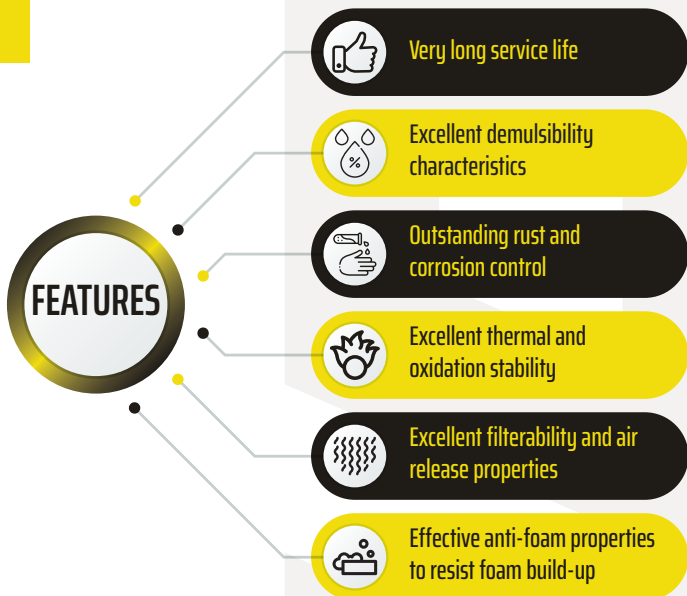


SHIELD TURBINE OILS

DESCRIPTION

Shield's Turbine Oils are premium lubricants made to be used in turbines and turbo compressors. These oils are blended using high quality virgin base oils and carefully selected anti-oxidants, anti-rust and anti-foaming additives. They exhibit oxidation stability of the highest order and good demulsibility characteristics which provide a long service life.



PERFORMANCE LEVELS:

- DIN 51515-1 TD, DIN 51515-2 TG
- General Electric GEK 28143b Type I, GEK 32568g, GEK 46506e
- GB 11120-2011, L-TSA and L-TGA
- Siemens / KWU TLV 9013/04-02
- Alstom HTGD 90 117

APPLICATIONS:

Shield Turbine Oils are recommended for the lubrication of steam, gas, and hydraulic turbines and can be used in hydraulic systems requiring a long life of outstanding properties. They can be used where inhibited oils of the appropriate viscosity are required such as in axial/centrifugal compressors and certain pumps.

TYPICAL PHYSICAL PROPERTIES

SL#	Characteristics Unit	Test Method	ISO 32	ISO 46	ISO 68	ISO 100
1	Kinematic Viscosity @ 40°C, cSt	ASTM D 445	32	46	68	100
2	Kinematic Viscosity @ 100°C, cSt	ASTM D 445	5.38	6.78	8.73	11.36
3	Viscosity Index	ASTM D 445	101	100	100	99
4	Flash Point COC, °C	ASTM D 92	220	230	230	246
5	Pour Point, °C	ASTM D 97	-27	-24	-21	-18
6	Demulsibility Test, minutes	ASTM D 1401	5	5	5	5
7	T.O.S.T life, time to TAN=2	ASTM D 943	+3500	+3500	+3500	+3500
8	Rotating Pressure Vessel Oxidation Test	ASTM D 2272	+500	+500	+500	+500

* Exact specifications may slightly vary from the above, but within the international standards