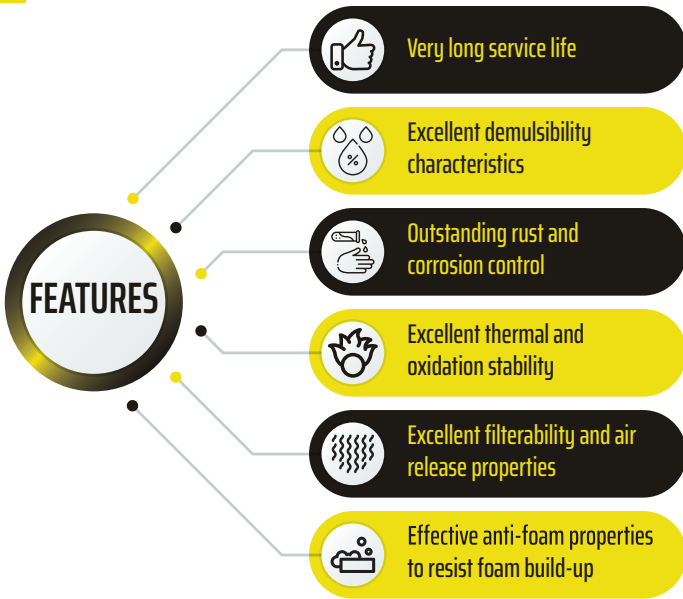




SHIELD - TURBINE OILS FULLY SYNTHETIC

DESCRIPTION

Shield's Turbine Oils Fully Synthetic are premium lubricants made to be used in turbines and turbo compressors. These oils are blended using fully synthetic 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 / TLV 901304 & TLV 901305
- Alstom HTGD 90 117

APPLICATIONS:

Shield's Turbine Oils Fully Synthetic 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 box drives, differentials (including limited-slip ones), and power take-offs found on motor vehicles and commercial machinery.

TYPICAL PHYSICAL PROPERTIES

SL#	Characteristics Unit	Test Method	Grades				
			ISO 22	ISO 32	ISO 46	ISO 68	ISO 100
1	Kinematic Viscosity @ 40°C, cSt	ASTM D 445	22	32	46	68	100
2	Flash Point COC, °C	ASTM D 92	220	220	220	230	230
3	Pour Point, °C	ASTM D 97	-42	-42	-38	-35	-33
4	Demulsibility Test, minutes	ASTM D 1401	3	3	3.5	3.5	3.5
5	T.O.S.T life, time to TAN=2	ASTM D 943	> 10000	> 10000	> 10000	> 10000	> 10000
6	Rotating Pressure Vessel Oxidation Test	ASTM D 2272	> 1000	> 1000	> 1000	> 1000	> 1000
7	FZG Gear Scuffing Test (A/8.3/90)	ISO 14635-1	≥ 8	≥ 9	≥ 9	≥ 9	≥ 9

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