

Zeal Turbo series

High Performance Circulating Oils



Product Data Sheet

Product Description

Zeal Turbo series are supreme performance circulating oils formulated with high quality base stocks and advanced additive technology, to provide exceptional equipment protection and reliability in applications lubricated by circulating systems which are operating under low to medium severity conditions. They are designed to meet or exceed the general requirements of most builders of turbines, vacuum pumps, compressors & bearings and demonstrate high resistance to oxidation and sludge & varnish formation.

Features & Benefits

- Outstanding thermal & oxidation stability prevents varnish & sludge formation and helps in extending life of oil and filter.
- Excellent water separability reduces sludge build up and improves efficiency of timing valves.
- Excellent air release & anti-foaming characteristics, avoids pump cavitation and erratic operations.
- Excellent load carrying properties reduces wear in pumps, bearings and gears.
- Excellent protection from rust and corrosion of multi-metallurgy compressor components.

Specifications

Zeal Turbo series meets or exceeds following International and Builder specifications:

- DIN 51515 Part-1
- DIN 51517 Part-2
- GE GEK 28413A
- JIS K-2213 Type-2 w/additives

Application

- Zeal Turbo series are suitable for use in medium severity hydraulics, vacuum pumps and compressors handling air, inert gas and natural gas, upto maximum compressed air temperature of 150 °C.
- Suitable for use in steam turbine, hydro turbine and some gas turbine operating in moderate severity.

Typical Characteristics

Zeal Turbo series	Test Method	Units	32	46	68	100
ISO Viscosity Grade	ISO 3448	-	32	46	68	100
Density @ 15 °C	ASTM D 4052	gm/cc	0.870	0.878	0.880	0.887
Viscosity @ 40 °C	ASTM D 445	cSt	32.4	46.8	68.9	100.8
Viscosity @ 100 °C	ASTM D 445	cSt	5.38	6.78	8.72	11.15
Viscosity Index	ASTM D 2270	-	98	98	98	95
Pour Point	ASTM D 97	°C	-18	-18	-15	-15
Flash Point (COC)	ASTM D 92	°C	224	230	234	246
TOST, Hours to 2 NN	ASTM D 943	Hours	5000	4500	3500	3000
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	10/0	10/0	10/0
Demulsibility, 40/40/0	ASTM D 1401	min	10	10	10	15

The above figures are typical of blends with normal production tolerance and do not constitute a specification.