

Platinum Turbo

DESCRIPTION

Platinum Turbo is premium performance circulating lubricants designed for applications including steam and hydro turbine sets and other systems where long lubricant service life is required., formulated from highly refined base stocks and an additive system which provide an extremely high level of chemical and thermal stability, rapid and complete separation from water and a high resistance to emulsification. They provide excellent protection against rust and corrosion, including resistance to salt water, and good antiwar properties. They have a high viscosity index which ensures minimum variation of film thickness with temperature and minimum power loss during the warm up period. These grades have excellent air release properties which allow entrained air to separate, thus avoiding pump cavitation and erratic operation, have good reputation for long life, excellent equipment protection and outstanding versatility in the wide variety of industrial applications. This oil specially designed to be used in steam turbines and hydro turbines with splash, bath and ring-oiling arrangements, and all other continuous circulation methods involving pumps, valves and ancillary equipment. This product series is recommended for continuous service in the lubrication of plain and rolling bearings and parallel shaft gearing. They have also been used successfully in rotary air compressor applications and reciprocating natural gas compressors as well as vacuum pumps. Their reputation is based on many decades of successful service and satisfied users.

APPLICATION

- Land-based and marine steam turbine, hydro turbine and some gas turbine circulation systems, including pumps, valves and other ancillary equipment
- Continuous service in plain and roller bearings and parallel shaft gearing
- Turbines with oil supplied by splash, bath, ring oiling or other mechanical means
- Moderate severity hydraulic pumps
- Compressors and vacuum pumps handling air, natural gas, and inert gases, and with discharge temperatures not exceeding 150C

Features and Benefits

They enjoy an excellent reputation in the lubrication of the circulation systems of steam turbines and hydro turbines, including geared turbines, plus a wide variety of ancillary equipment. As designs change and increase in severity, it is the challenge of our formulation scientists to understand the effect of these changed on the lubricant and to formulate these products for the broad versatility they are recognized for.

Features	Advantage and Potential Benefits
Very high level of chemical and thermal stability and resistance to sludge formation	<ul style="list-style-type: none"> Long oil charge life in circulation systems and reduce oil replacement cost Less unplanned down time and reduce maintenance cost
Perfect water release properties	<ul style="list-style-type: none"> Improve operating efficiency
Very good anti-wear protection	<ul style="list-style-type: none"> Long equipment life, reduce maintenance and down time
Long term protection against rust and cross ion	<ul style="list-style-type: none"> Long equipment life, reduce maintenance and down time
High quality against foam properties and air release	<ul style="list-style-type: none"> Avoid pump cavitation, noisy and erratic operation.
Highly versatile multiple applications	<ul style="list-style-type: none"> Rationalized inventory, reduce inventory cost

Performance

DIN 51524: Part 1

DIN 51515: Part 1 (L-TD)

DIN 51515: Part 2 (L-TG)

MIL-L17672 D

Specifications

Test Parameter	Units	Test Limits				Test Method
ISO Grade		32	46	68	100	
Appearance	-	C&B	C&B	C&B	C&B	Visual
Density @ 15°C	g/cm ³	0.866	0.870	0.875	0.880	ASTM D-4052
Viscosity @ 40°C	cSt	28.8-35.2	41.4-50.6	61.2-74.8	90-110	ASTM D-445
Viscosity @ 100°C	cSt	5.5	6.8	8.6	10.6	ASTM D-445
Viscosity Index, min.	-	98	98	96	95	ASTM D- 2270
Flash Point (COC), min.	°C	218	224	228	232	ASTM D-92
Pour Point, max.	°C	-9	-9	-9	-9	ASTM D-97
Foam characterization						
- SEQ I		0/0	0/0	0/0	0/0	ASTM D 892
- SEQII	ml	0/0	0/0	0/0	0/0	
- SEQIII		0/0	0/0	0/0	0/0	
Air Release	Min.	3	4	5	5	ASTM D-3427
Water Seperability @ 54 °C to 0 ml emulsion	min.	15	20	25	30	ASTM D 1401
CODE		806/1	806/2	806/3	806/4	-

- These specifications are typical of current production. Whilst future production will confirm to Petro S specifications. Variations on these specifications may be occurring.