

APEX VISTA T 46 SERIES

High Quality Industrial Steam and Gas – Zinc Free Turbine Oils



Product Data Sheet

Product Description

APEX VISTA T 46 series are high performance zinc free turbine oils formulated with high quality hydro treated base stocks and advanced additive technology, to provide exceptional equipment protection and reliability in most non-geared steam turbine systems and low to moderate duty gas turbines. They are designed to demonstrate excellent oxidation stability, resistance to sludge & varnish formation, protection against rust & corrosion, low foaming and excellent demulsibility.

Features & Benefits

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

Specifications

APEX VISTA T 46 series meets or exceeds following International and Builder specifications:

- DIN 51515 Part-1 & Part-2
- GE GEK 28413B/27070/32568J/107395A/46506E
- MAN Turbo Quality Requirement for Lubricants
- British Standard BS489 & Solar ES9-224W
- Siemens (non-EP) - TLV 9013 04, TLV 9013 05
- Alstom Power Turbo HTGD 90-117 V0001X (non-EP)

Application

- APEX VISTA T 46 series are suitable for use in Non-geared industrial steam and gas turbines operating under low to medium severity conditions.
- Suitable for use in heavy duty industrial compressor applications lubricated by centralized systems.

Typical Characteristics

| APEX VISTA T | Test Method | Units | 32 | 46 | 68 |
|-----------------------------|-------------|-------|---------|---------|---------|
| ISO Viscosity Grade | ISO 3448 | - | 32 | 46 | 68 |
| Density @ 15 °C | ASTM D 4052 | gm/cc | 0.870 | 0.872 | 0.875 |
| Viscosity @ 40 °C | ASTM D 445 | cSt | 32.2 | 46.5 | 68.8 |
| Viscosity @ 100 °C | ASTM D 445 | cSt | 5.62 | 7.10 | 9.16 |
| Viscosity Index | ASTM D 2270 | - | 112 | 110 | 108 |
| Pour Point | ASTM D 97 | °C | -30 | -30 | -27 |
| Flash Point (COC) | ASTM D 92 | °C | 224 | 230 | 234 |
| TOST, Hours to 2 NN | ASTM D 943 | Hours | >10,000 | >10,000 | >10,000 |
| Copper Strip Corrosion | ASTM D 130 | - | 1A | 1A | 1A |
| Rust Characteristics Proc B | ASTM D 665 | - | Pass | Pass | Pass |
| Air Release , 50 °C | ASTM D 3427 | mins | 3 | 4 | 4 |
| Foam Seq I,II,III | ASTM D 892 | ml/ml | 0/0 | 0/0 | 10/0 |
| Demulsibility, 40/40/0 | ASTM D 1401 | min | 10 | 10 | 10 |

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