

NORDIC TURBINE OIL VG 46

High performance turbine oil ISO VG 46

NORDIC TURBINE OIL VG 46 is a supreme performance turbine oil specially designed for use in geared and non-geared steam turbines, gas turbines and combined cycle gas turbines (CCGT) including the gas turbines operating at high temperatures.

NORDIC TURBINE OIL VG 46 is based on high quality base oil in combination with an unique additive package to ensure the following properties:

- Outstanding thermal and oxidation stability.
- Prevents sludge formation, controls deposits and minimizes oil degradation.
- Superior anti-wear property and load carrying capability provide excellent protection for geared turbines
- Excellent water separation capability resists formation of emulsion and leads to easy removal of excess water from the lubrication system
- Effective rust and corrosion inhibitors provide long term protection to critical system components
- Good air release properties and foam control.

NORDIC TURBINE OIL VG 46 exceeds the following performance criteria:

ASTM D4304 Type I
ALSTOM HTGD 90117 Z
Solar ES 9-224
GB 11120-2011 L-TGA
BS 489:1999

DIN 51515-1 (TD)
GEK 107395A/27070/28143A/32568J/46506E
Siemens TLV 9013 05 (EP)
ISO 8068:2006(E) L-TSA

DIN 51515-2 (TG)
GB 11120-2011 L-TSA
ISO 8068:2006(E) L-TGA

Typical Analysis

| Properties | Unit | Method | Typical Value |
|---------------------------|--------------------|-------------|---------------|
| ISO VG Grade | | ISO 3448 | 46 |
| Density @15°C | kg/m ³ | D4052 | 864 |
| Kin. Viscosity @40°C | mm ² /s | ASTM D7042 | 46 |
| Kin. Viscosity @100°C | mm ² /s | ASTM D7042 | 6.8 |
| Viscosity Index | | D2270 | 104 |
| Flash Point COC | °C | D92 | >213 |
| Pour Point | °C | D97 | -27 |
| Total Acid Number | mgKOH/g | D664 | 0.2 |
| Copper Corrosion | | D130 | 1b |
| Air Release Value @50°C | Minutes | D3427 | Pass |
| Water separability @54°C | | D1401 | Pass |
| FZG, Fail Load Stage | | DIN 51534-2 | 10 |
| Oil Stability Test (TOST) | Hrs | D943 | >10.000 |

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| Date Issued: 06-05-2021 | Supersedes: | Revision Nr.: 1 |
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