



PRODUCT DATA SHEET

Havens Turbine Oil Series

DESCRIPTION

Havens Turbine Oil is for use in modern steam and medium duty gas turbines. It has been designed to enable the higher oxidation performance required by modern turbine oil specifications including RPVOT and TOST requirements.

PROPERTIES

- Enhanced oxidation resistance
- Outstanding demulsibility
- Excellent filtration performance even in the presence of water and calcium contamination
- Outstanding rust and non-ferrous corrosion protection

APPLICATIONS

Turbine oils for gas and steam turbines, also with gearboxes and as a control fluid for turbine plants and turbo-compressors.

PERFORMANCE LEVELS

- Meets and exceeds:
- L-TD and L-TG turbine oils acc. to DIN 51 515-1 and -2.
 - ASTM D-4304 Type I & Type III
 - Alstom HTGD 90017
 - British Standard BS 489
 - DIN 51515 Part 1 & Part 2
 - DIN 51524 Part 1
 - General Electric GEK-32568F
 - ISO 8068 TGB TGSB & ISO 8068 TSA TGA
 - ISO 11158 HH & HL
 - Siemens AG TLV 9013 05 High Thermal Stability
 - Siemens AG TLV 9013 04 Standard Thermal Stability



TYPICAL PROPERTIES

| PARAMETERS | TEST METHOD | UNIT | Havens Turbine Oil Series | | |
|---|-------------|------------------------|---------------------------|-----|-----|
| | | | 32 | 46 | 68 |
| Product Name | - | - | 32 | 46 | 68 |
| Density at 15 °C, kg/m ³ | - | kg/m ³ | 842 | 846 | 851 |
| Flash point Cleveland, °C | - | °C | 220 | 238 | 248 |
| Kinematic viscosity at 40 °C, mm ² /s | - | °C, mm ² /s | 32 | 46 | 68 |
| Kinematic viscosity at 100 °C, mm ² /s | - | °C, mm ² /s | 5,8 | 7,6 | 9,9 |
| Viscosity Index | ASTM D2270 | - | 125 | 131 | 128 |
| Pour Point, °C | ASTM D92 | °C | -25 | -25 | -25 |

The values shown above are typical values at the date of publication. Havens Lubricants reserves the right to change these typical values without prior notice.

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.havenslubricants.com.