



NATIONAL™ TURBINE OILS | Industrial Fluids

For non-g geared gas, steam, and hydroelectric turbines

Product Description

NATIONAL TURBINE OILS are formulated to provide superior oxidation stability, rust and corrosion protection, minimum foam, fast air release, rapid water separation and excellent thermal stability. These oils are designed to meet the demands of gas, steam, and hydroelectric turbine bearing lubrication.

NATIONAL TURBINE OILS combine highly refined Group II base oils and the highest ashless additive technology (Zn-free) to provide dependable turbine lubrication with trouble free performance.

Industry and OEM Specifications¹

- DIN 51524-1
- DIN 51515-1
- DIN 51515-2
- Solar Turbine ES 9-224W
- ANSI/AGMA 9005-E02-RO
- ISO 8068 L-TSA and L-TGA
- FIVES (formally MAG) P-38, P-54
- GEK 32568J
- GEK 46506E

NATIONAL TURBINE OILS meet or exceed Mitsubishi-Hitachi MS04-MA-CL002, Siemens TVL 901304/901305, and Alstom HTGD 90117 (for non-g geared turbines).

Features

- Outstanding Rust and Oxidation protection
- Fast air release minimizes pump cavitation in systems with high circulation rates
- Use as hydraulic fluid for systems not exceeding 1000 psi
- Ashless (Zn-free)
- Excellent thermal and oxidation stability that reduces the formation of deposits in reservoirs, high temperature bearings and other hot areas of the turbine
- Excellent water separation (demulsibility) that facilitates water removal

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.



Technical Data

(typical values)

ISO GRADE	ASTM	32	46	68
Product Number		07-506032	07-506046	07-506068
SDS Number		S125	S012	S012
Viscosity @ 40°C, cSt	D445	29.8	44.78	67.98
Viscosity @ 100°C, cSt	D445	5.3	6.88	8.91
Viscosity Index	D2770	111	109	105
Specific Gravity @ 60°F	D4052	0.861	0.866	0.8714
Pour Point, °C	D5950	-45	-39	-36
Flash Point, °C	D92	205	212	225
Color ASTM	D1500	L0.5	L0.5	L0.5
Demulsibility	D2711	41-39-0 (10')	40-40-0 (15')	40-38-2 (10')
Foam characteristics, Seq. I	D892	20/0	0/0	0/0
Seq. II		0/0	0/0	0/0
Seq. III		0/0	0/0	0/0
Oxidation Stability	D943	10,000	10,000	>8,700
Total Acid Number, mg KOH/g	D664	0.05	0.1	0.1
Air Release, 50°C (mins)	D3427	0:45	1:41	3:48
Rust Prevention	D665B	Pass	Pass	Pass
RPVOT (mins)	D2272	2510	2008	1161

- 1) Consult your owner's manual regarding its suitability for use in equipment from other OEMs. These hydraulics perform in most equipment without concern for fluid-related harm.

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.

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