TECHNICAL PRODUCT INFORMATION

NEUTRON 946 T

Industrial Turbine Oil

NEUTRON 946 T is a high-quality rust- and oxidation (R&O)- inhibited circulating oil developed for use in industrial steam turbines and many other industrial applications. It is available in nine viscosity grades : ISO 22, 32, 46, 68, 100, 150, 220, 320, and 460.

NEUTRON 946 T is formulated with high-quality, synthetic base oils and fortified with additives that provide excellent oxidation resistance. It is inhibited to minimize the formation of harmful sludge and varnish deposits due to oxidation at high temperatures, resulting in long services life.

NEUTRON 946 T protects critical system components against rust and corrosion. It has excellent water-separating characteristics to minimize the formation of emulsions. A foam inhibitor prevents excessive foam buildup that can interfere with proper lubrication.

APPLICATIONS

- Steam and hydroelectric turbines
- Centrifugal air compressors
- Heat transfer medium in closed systems
- Hydraulic systems operating at less than 1,200 Psi that do not require anti-wear
- Vacuum pumps, deep well water pumps and machine tools
- Air-line lubricant for air tools and other pneumatic equipment where moisture content in the air is low
- Lightly loaded industrial gearbox that do not require an extreme-pressure gear lubricant
- Plain and rolling element bearings, including those in electric motors and blowers
- Mist lubrication systems
- General purpose lubrication

RECOMMENDED FOR

- AGMA R&O Grades 1 through 7 (non-EP)
- ASTM D4304 Type I turbine oil
- Cincinnati Machine P-38, P-45, P-54, P-55 and P-57 (ISO VG 32, 22, 68, 46 and 150)
- Denison HF-1 Hydraulic Fluid for axial piston pumps in severe duty applications
- DIN 51524 Part 1, R&O hydraulic oil
- General Electric GEK-46506D and obsolete GEK-27070, GEK-28143A
- U.S. Steel 126, R&O-inhibited hydraulic oil
- ABB G12106
- ALSTOM HTGD 90117 for non-geared turbines
- Mitsubishi Type 2 turbine oil
- Siemens Westinghouse TLV 9013 04
- Solar ES9-224, Class II turbine oil

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OUTSTANDING FEATURES

- Excellent oxidation resistance; minimizes sludge and varnish formation
- Excellent rust and corrosion protection
- Excellent water-separating characteristics; resists formation of emulsions
- Good foam resistance
- Low carbon-forming tendency
- Available in a wide range of viscosity grades

TECHNICAL INFORMATION

	ASTM TEST	RESULT		
Grade, ISO		32	46	68
Flash Point ^{o} C	D-92	226	236	258
Pour Point ^{o} C	D-97	-38	-32	-31
Viscosity				
@ 40 ^{o}C, cSt	D-445	32	46	68
@ 100 ^{o}C, cSt	D-445	25	37	52
Gravity, @ 15,4 ^{o}C	D-287	0.834	0.834	0.834
Viscosity Index	D-2270	132	131	129
Sulfated Ash, %Wt	D-482	0.001	0.001	0.001
Foaming Sequences		1.0	1.0	1.0
T.A.N., mg KOH/g	D-974	0.03	0.03	0.03