



Turbine Oil XD

Turbine Oil XD is a premium quality, rust and oxidation (R&O)-inhibited circulating oil developed for use in industrial gas turbines and steam turbines, and in many other industrial applications. It is specially formulated to provide a very high level of oxidation resistance for long service life.

Turbine Oil XD is formulated to provide excellent protection against rust, corrosion and deposit formation. It has excellent oxidation resistance and thermal stability at high temperatures to minimize sludge and varnish formation, and provide long service life. It protects system components against rust and corrosion. It has excellent water-separating properties to minimize the formation of emulsions, and is resistant to excessive foam buildup that can interfere with proper lubrication.

Applications

- Gas, steam and hydroelectric turbines
- Air tools and other pneumatic equipment lubricated through air line lubricators
- Centrifugal and rotary air compressors
- Closed heat transfer systems
- Lightly loaded plain and rolling-element bearings, such as those in electric motors and blowers
- Vacuum pumps, deep-well water pumps and machine tools

Turbine Oil XD meets the requirements of the following industry and OEM specifications:

- ABB G12106
- AGMA Grade 0 (non-EP)
- Alstom Power HTGD 90 117 for non-geared turbines
- ASTM D4304 Type I Turbine Oil
- British Standard 489
- Denison Hydraulics HF-1
- DIN 51524 Part 1, Hydraulic Oils, Type HL
- General Electric GEK 32568F, GEK-46506D, GEK-27070 (obsolete), GEK-28143A (obsolete)
- Siemens Power Generation TLV 9013 04
- U.S. Military MIL-L-17672D
- U.S. Steel 126

Features/Benefits

- Excellent oxidation resistance and thermal stability for long service life

**Premium Rust &
Oxidation-Inhibited
Circulating Oil**

Contact Information

**U.S. Customer
Service:
1-800-822-6457**

**Technical Hot Line:
1-800-766-0050**

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Customer Service:
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- Protects against sludge and varnish formation
- Protects against rust and corrosion
- Excellent water-separating properties
- Low carbon-forming tendency for use in air compressors
- Good foam resistance
- Compatible with electrostatic oil cleaners⁽¹⁾

⁽¹⁾ **Caution:** When used in turbines equipped with electrostatic oil cleaners, please consult with the respective manufacturers for proper filter selection.

Turbine Oil XD

Typical Properties

ISO Grade	32
AGMA Grade	0
Specific Gravity @ 60°F	0.859
Density, lbs/gal @ 60°F	7.16
Color, ASTM D1500	L 0.5
Flash Point (COC), °C (°F)	210 (410)
Pour Point, °C (°F)	-40 (-40)
Viscosity,	
cSt @ 40°C	31.8
cSt @ 100°C	5.4
SUS @ 100°F	164
SUS @ 210°F	44.4
Viscosity Index	102
Acid Number, ASTM D974, mg KOH/g	0.08
Copper Corrosion, ASTM D130	1a
Demulsibility, ASTM D1401, minutes to pass	20
Foam Test, ASTM D892	Pass
Oxidation Stability,	
TOST, ASTM D943-04a (modified), hours	12,500
RPVOT, ASTM D2272, minutes	1,200
Rust Test, ASTM D665 A&B	Pass

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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