



## Turbine Oil

Conoco Turbine Oil is a high-quality rust- and oxidation-inhibited turbine oil formulated with hydrocracked base stocks and proprietary additive chemistry to meet the requirements of steam and hydroelectric turbine service.

### **Applications**

Turbine Oil is recommended for use in steam and hydroelectric turbines.

Turbine Oil also can be used successfully in pumps, bearings, motors and a variety of other industrial applications where a premium rust- and oxidation-inhibited oil is recommended.

Turbine Oil is approved by Cincinnati Machine under specifications P-38 (ISO 32), P-55 (ISO 46) and P-54 (ISO 68).

Turbine Oil meets the performance requirements of:

- ABB
- ASTM D4304 Type I Turbine Oil
- DIN 51517 Part 1, Lubricating Oil, Type CL
- DIN 51524 Part 1, R&O Hydraulic Oil, Type HL
- General Electric GEK46506d
- Siemens/Westinghouse/Alston TLV 901304
- Solar ES9-224, Class II Turbine Oil
- Mitsubishi Heavy Industries, Type 2 Turbine Oil
- Toshiba
- U.S. Steel 126, R&O Inhibited Hydraulic Oil

### **Outstanding Features**

- Excellent oxidation control and thermal stability
- Long oil life and reduced operating and maintenance costs
- Reduction or elimination of harmful sludge and varnish deposits
- Resistance to foaming
- Rapid water separation
- Rapid air and gas separation
- Excellent low-temperature performance

**High-Quality  
Hydrocracked  
Turbine Oil**

**U.S. Technical  
Services Hot line:  
1-800-255-9556**

**U.S. Customer  
Service:  
1-800-640-1956**

**International:  
+1-832-486-3363**

**Asia-Pacific:  
tel: (65) 6536-0010  
fax: (65) 6536-0012**

**E-mail address:  
*conocolubricants@  
conocophilips.com***

***www.lubes.conoco.com***

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



**Turbine Oil  
Typical Properties**

<b>ISO Grade</b>	<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>
Viscosity,				
cSt @ 40°C	31.8	45	67	98
cSt @ 100°C	5.4	6.7	8.7	11.3
SUS @ 100°F	165	232	347	510
SUS @ 210°F	44	49	56	65
Viscosity Index	103	100	100	100
Pour Point,				
°F	-40	-40	-30	-20
°C	-40	-40	-34	-29
Flash Point (COC),				
°F	410	450	470	531
°C	210	232	243	277
ASTM Color	0.5	0.5	0.5	0.5
Density, lb/gal	7.18	7.22	7.26	7.28
Oxidation Stability, TOST, ASTM D943, hr	7,500	7,500	7,500	7,000
Oxidation Stability, RPVOT, ASTM D2272, min	850	850	850	825
Demulsibility, ASTM D1401, min to pass	10	10	15	10
Zinc, ppm	5 max	5 max	5 max	5 max
Total Acid Number (TAN), ASTM D974	0.08	0.08	0.08	0.08
Copper Corrosion, ASTM D130	1a	1a	1a	1a
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass

Due to continual product research and development, the information contained herein is subject to change without notification.

© 2004 ConocoPhillips Company. Conoco logo is registered trademark of ConocoPhillips Company or its subsidiaries.