PRODUCT DATA SHEET

Premium Quality Lubricants



NATIONAL™ PREMIUM R&O TURBINE OILS

Premium General Purpose turbine quality R&O oils

PRODUCT DESCRIPTION

NATIONALTM Premium R&O turbine oils are formulated to provide superior oxidation stability, rust & 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, and lubrication of reduction gears in marine operations. These oils meet the following requirements:

INDUSTRY AND OEM SPECIFICATIONS

- ◆ General Electric GEK 32568E
- ◆ Denison HF-O, HF-1
- ◆ Cincinnati Machine (appropriate viscosity grades) P38, P54 and P57
- ♦ Solar Turbines ES 9-224U

APPLICATIONS

NATIONAL™ Premium R&O turbine oils provide dependable turbine lubrication with trouble free performance. These oils meet the requirements of major turbine builders including GE, Siemens, Westinghouse, ABB Alsthom, Elliot and Demag Delaval steam turbines. General recommendations for the various kinds of turbine are:

Туре			Viscosity (cSt)@40C				ISO Grade				
Steam Turbines											
Direct Drive-ring oiled w/water cooling			54-75				68				
Direct Drive – forced feed			30-38					32			
Gear Drive – forced feed			54-75					68			
Hydraulic Turbines											
Large Vertical Machines			54-75					68			
Small Vertical Machines			30-38					32			
Horizontal Machines			30-38					32			
TYPICAL PROPERTIES											
ISO GRADE	TEST	32	46	68	100	150	220	320	460		
Viscosity @100°C	D445	5.55	6.75	8.72	12.0	14.5	18.5	22.8	29.3		
Viscosity @40°C	D445	32	46	68	100	150	220	320	460		
Viscosity Index	D2770	108	100	100	100	95	93	93	93		
Oxidation Stability,hrs	D943	4000-	1000+4000+3000+ 3000+ NA N				NA	NA	NA		
Color	D1500	0.5	0.5	1.0	1.5	2.5	3.5	4.0	4.5	PN2009MAR	

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