

INDUSTRIAL CIRCULATING OIL

ISO 32, 46, 68, 100

PRODUCT CODE: 35032, 35046, 35068, 35100

DESCRIPTION

49 NORTH® INDUSTRIAL CIRCULATING OILS are formulated with premium base oil technology designed to meet the critical demands of non-geared gas, steam, and hydroelectric turbine bearing lubrications, reduction gear lubrication in marine operations, as well as an excellent recommendation for many other industrial applications including air compression where R&O type oils are recommended.

QUALITIES

49 NORTH® INDUSTRIAL CIRCULATING OILS are formulated with premium base oil technology and an ashless, zinc-free formulation that provides exceptional oxidation stability, water separability, and protection against rust and corrosion. Higher temperatures in advanced gas and steam turbines require circulating system oil with exceptional high temperature stability.

Nonvolatile oxidation inhibition minimizes the evaporative loss of the inhibitors, a common problem with turbine oils where bearing temperatures are high and system capacities are limited. With retained oxidation resistance for long periods under high temperature conditions, 49 NORTH® INDUSTRIAL CIRCULATING OILS will promote long oil service life and help minimize turbine down time.

49 NORTH® INDUSTRIAL CIRCULATING OILS have excellent demulsibility characteristics which allow these oils to maintain a high film strength coating on critical wear points of bearings and gear reducers and assure fast removal of water contamination. The foam inhibition package helps prevent sump overflow and erratic governor operation.

APPLICATIONS

49 NORTH® INDUSTRIAL CIRCULATING OILS are formulated to meet the critical demands of non-geared gas, steam, and hydroelectric turbine bearing lubrication, and reduction gear lubrication in marine operations. They are an excellent recommendation for many other industrial applications including air compression where R&O type oils are recommended.

FEATURES & BENEFITS

Exceptional oxidation stability for long service life at elevated temperatures.

Rust and corrosion protection.

Antifoam inhibitors help prevent sump overflow or erratic governor operation.

Fast air release minimizes the possibility of pump cavitation in systems with high circulation rates.

Excellent air compressor lubricant when OEM recommends R&O type oil.

Exceptional thermal stability minimizes deposit formation.

CONTACT

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Leduc, Alberta
Canada T9E 7E3

TYPICAL PROPERTIES

ISO Grade	32	46	68	100
Product Code	35032	35046	35068	35100
AGMA Grade	-	1	2	3
API Gravity	32.7	32.0	31.7	31.4
Viscosity, Kinematic				
cSt @ 40°C	32.0	43.7	68.0	100.0
cSt @ 100°C	5.4	6.6	8.8	11.4
Viscosity, Saybolt				
SUS @ 100°F	165	225	352	520
SUS @ 210°F	44.4	48.2	55.9	65.4
Viscosity Index	102	101	102	100
Flash Point, °C (°F)	222 (432)	224 (435)	245 (473)	262 (504)
Pour Point, °C (°F)	-36 (-33)	-36 (-33)	-33 (-27)	-30 (-22)
Oxidation Stability				
ASTM D943	17,000	12,000	11,000	11,000
ASTM D2272	1700	1400	1400	1400

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

MEETS OR EXCEEDS INDUSTRY APPROVALS AND SPECIFICATIONS

	32	46	68	100
ASTM D4304	X	X	X	X
British Standard 489	X	X	X	X
DIN 51515	X	X	X	X
General Electric GEK-32568, GEK 28143A, GEK-46506D, GEK-27070	X			
Solar ES9, 224	X	X		
Cincinnati Machine P-38	X			
Cincinnati Machine P-54			X	
Cincinnati Machine P-55		X		
Alstom Power HTGD 90117 (non-g geared turbines only)	X	X		
Siemens TLV 901305	X	X		
Siemens Westinghouse M Spec 55125Z3	X			
Hydroelectric Turbines, Land & Marine Turbines, and Associated reduction gears where OEM recommends R&O Oil			X	X

HEALTH & SAFETY

A complete Safety Data Sheet (SDS) is available upon request.

PACKAGE SIZES

Available in Bulk, 1211L totes, 208L Drums, 20L Pails

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