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KLONDIKE Long Life Turbine Oils: ISO 32, 46, 68, 100, 150

PRODUCT DESCRIPTION

KLONDIKE Long Life Turbine Oils are advanced, specialized fluids designed to provide exceptional lubrication and cooling benefits for industrial turbine systems where the highest quality rust and oxidation inhibited lubricants are required. These fluids provide excellent operating and maintenance benefits across a broad temperature range for increased efficiency, performance, and equipment protection.

APPLICATIONS

KLONDIKE Long Life Turbine Oils are designed and recommended for use in turbine systems operating on steam or gas as well as a high temperature bearing lubricant and coolant. These oils are formulated to meet the demands of non-geared steam, hydro-electric, and gas turbine and bearing lubrication. They are also ideal for reduction gear assemblies in certain marine applications.

KLONDIKE Long Life Turbine Oils are excellent lubricants for many other industrial applications such as air-line lubricators, industrial gear cases, and air compressor applications where R&O oils are recommended by the OEM.





FEATURES AND BENEFITS

KLONDIKE Long Life Turbine Oils are manufactured with the highest quality, ultra-pure paraffinic base oils and high performance additives. These advanced base oils have been chosen to ensure exceptional performance and provide long term, trouble free service. Special inhibitor technology enhances these products by improving resistance to oxidation breakdown and inhibiting the formation of deposits on critical machinery surfaces, delivering reliable and consistent performance in industrial circulation systems that are subject to wide ambient and system operating temperatures. This special technology also includes advanced foam and air release control as well as improved low temperature operation capability improved by cold flow improvers.

KLONDIKE Long Life Turbine Oils have increased discharge flow rates and decreased internal pump leakage rates resulting in increased pumping efficiency, and less fluid leakage and waste.

KLONDIKE Long Life Turbine Oils protect vital equipment parts from rust and corrosion both during operational service and when the equipment is idle making these fluids extremely versatile. In addition, these products pass the ASTM-D-943 Turbine Oil Stability Test by more than 10,000 hours indicating the ability to provide extremely long service life.

KLONDIKE Long Life Turbine Oils deliver value through the following benefits:

- **High viscosity index** minimal viscosity change across wide temperature range delivers consistent, reliable performance.
- Superior thermal stability resists heat induced oil thickening and deposit formation in high temperature service applications.
- Foam control fast air release prevents sump overflow and maximizes oil flow for high system efficiency.
- **Smooth operation** excellent fluid stability and water separation characteristics ensure outstanding corrosion protection even in the presence of water.
- Optimal oil service life high oxidation stability maximizes fluid life for reduced oil changes and improved fluid economy.

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SPECIFICATIONS AND APPROVALS

KLONDIKE Long Life Turbine Oils are recommended for use where the following specifications are required (in the appropriate viscosity grade):

- General Electric GEK 28143A, GEK 32568F, GEK 46506D,
 ALSTOM (ABB) HTGD 90117 GEK 27070, GEK 107395
 ASTM – D4304 type I
- **ABB** K 110 812101
- British Standard 489
- Westinghouse 1500 00 20
- Solar Turbines ES 9 224
- **Cooper** SE 1144
- Siemens TLV 901304, 901305
- Siemens Westinghouse M-55125Z3

- DIN 51515 Part 1, Part 2, 51524 Part I
- Cincinnati Machine P-38, P-54,P-55
- MIL-L-17672C/D
- AFNOR E 48600 HL
- US Steel 126
- Denison HF-1.

Always use fluid viscosity recommended by OEM for any particular application.

TYPICAL TECHNICAL PROPERTIES							
PROPERTY	TEST METHOD	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	
Oxidation hours, min	ASTM D943	10,000+	10,000+	10,000+	5000+	5000+	
Viscosity @ 40°C (cSt)	ASTM D445	32.0	46.0	66.4	98.0	150.0	
Viscosity @ 100°C (cSt)	ASTM D445	5.5	7.18	9.16	11.2	15.0	
Viscosity Index	ASTM D2270	112	115	115	102	100	
Flash Point °C	ASTM D92	200	212	224	228	230	
Pour Point °C	ASTM D5950	-38	-34	-32	-30	-26	
Specific Gravity @ 60°F	ASTM D4052	0.86	0.86	0.852	0.85	0.87	
AGMA grade			1	2	3	4	
Distilled Water		Pass	Pass	Pass	Pass	Pass	
Rust Test	ASTM D665	Pass	Pass	Pass	Pass	Pass	
Copper Corrosion (3hr@100°C)	ASTM D130	1.0	1.0	1.0	1.0	1.0	

All stated physical properties are typical of standard production and may vary.

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HEALTH AND SAFETY

This product is not expected to have adverse health implications when used for its intended application. For detailed information on safe handling of this product, refer to its Material Safety Data Sheet (MSDS). To obtain an MSDS on this or any other KLONDIKE product, please visit www.klondikelubricants.com or call 1-877-293-4691. When disposing of used product, be responsible to the environment.

DISCLAIMER

Always follow OEM recommendations for fluid viscosity and API service category. KLONDIKE takes no responsibility for product misuse or misapplication.

PRODUCT NUMBERS					
ISO 32 LONG LIFE TURBINE OIL	Pail: 18.9 L / 5 GAL	KL-HF6680			
	Drum: 208 L / 55 GAL	KL-HF6690			
	Bulk	KL-HF6699			
ISO 46 LONG LIFE TURBINE OIL	Pail: 18.9 L / 5 GAL	KL-HF6880			
	Drum: 208 L / 55 GAL	KL-HF6890			
	Bulk	KL-HF6899			
ISO 68 LONG LIFE TURBINE OIL	Pail: 18.9 L / 5 GAL	KL-HF7080			
	Drum: 208 L / 55 GAL	KL-HF7090			
	Bulk	KL-HF7099			
ISO 100 LONG LIFE TURBINE OIL	Pail: 18.9 L / 5 GAL	KL-HF7280			
	Drum: 208 L / 55 GAL	KL-HF7290			
	Bulk	KL-HF7299			
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ISO 150 LONG LIFE TURBINE OIL	Pail: 18.9 L / 5 GAL	KL-HF7480			
	Drum: 208 L / 55 GAL	KL-HF7490			
	Bulk	KL-HF7499			

BRAVING THE FORCE OF MOVEMENT

KLONDIKE stands for robust, reliable, high quality products tailored to suit the requirements of the on- and off-road heavy duty, automotive and industrial markets. Our solutions span from trend-setting retail lubricants through small-batch custom formulations to large bulk orders ready for immediate delivery.

The extensive KLONDIKE product range includes premium oils, lubricants, greases, chemicals and specialty fluids formulated with virgin base oils and protective inhibitors. Designed to handle the most extreme climates and operating conditions, the KLONDIKE products protect and extend the life of your equipment, optimize performance and improve productivity while meeting and exceeding industry standards and specifications.

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