

# KLONDIKE Full Synthetic Circulating Compressor Turbine Oils



## PRODUCT DESCRIPTION

KLONDIKE Full Synthetic Circulating Compressor Turbine Oils are advanced, multi-functional fluids designed to provide exceptional lubrication and performance in industrial systems where the highest quality 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 Full Synthetic Circulating Compressor Turbine Oils are formulated to meet the needs and requirements of single use and/or multi-functional systems.

When used as an industrial circulating oil, these fluids are formulated to extend the service life of machinery by resisting oxidation, sludge, and varnish formation and are applicable for use in circulation systems lubricating bearings and other system components.

When used as compressor oil, these fluids are designed to provide exceptional EP and antiwear properties when used in rotary screw, rotary vane, reciprocating, and other heavy-duty compressors. These fluids are compatible with PAO, ester, and conventional based fluids. Do not mix with PAG, silicone, or other specific fluid types.

When used as premium turbine oil, these fluids are 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-g geared steam, hydro-electric, and gas turbine and bearing lubrication. They are also ideal for reduction gear assemblies in certain marine applications.

Other applications include vacuum pumps, blowers, and oil lubricated vibrating mechanisms on compactors and other heavy equipment.

Most industrial circulating systems, compressors, and R+O turbine type applications are viscosity grade specific. Always take care to use the correct viscosity grade for your application



## FEATURES AND BENEFITS

KLONDIKE Full Synthetic Circulating Compressor Turbine Oils are blended with the highest quality, ultra-pure synthetic base oils and high performance additive combinations. Specific, advanced base oils have been chosen to ensure exceptional performance and provide long term, trouble free service. Special ashless 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 applications that are subject to wide ambient and system operating temperatures. Advanced additive technology also includes foam and air release control as well as improved low temperature operation capability.

KLONDIKE Full Synthetic Circulating Compressor 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 Full Synthetic Circulating Compressor 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.
- **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 Full Synthetic Circulating Compressor Turbine Oils meet the specifications of, and are recommended for use in applications where the following specifications are required (in the appropriate viscosity grade):

- **Cincinnati Milacron** – P-38 (ISO 32), P-54 (ISO 46), P-57 (ISO 68)
- **General Electric** – GEK 32568, GEK 46506, GEK 107395
- **ABB** – K 110 812101
- **British Standard** – 489
- **Westinghouse** – 1500 00 20
- **Solar Turbines** – ES9 224
- **Cooper** – SE 1144
- **Siemens** – TLV 9013 04, 9013 05
- **Siemens Westinghouse** – M-55125Z3
- **ALSTOM (ABB)** – HTGD 90117
- **ASTM** – D4304 type I
- **DIN** – 51515 Part 1, Part 2, 51524 Part I
- **MIL-L-17672C/D**
- **AFNOR** – E 48600 HL
- **US Steel** – 126
- **Parker Denison HF-0**

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

## TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	ISO 32	ISO 220	ISO 460	ISO 680
Oxidation hours, min	ASTM D943	10,000 +	10,000 +	10,000 +	10,000 +
Viscosity @ 40°C (cSt)	ASTM D445	32	220	460	680
Viscosity @ 100°C (cSt)	ASTM D445	6.25	26.5	46.6	64.5
Viscosity Index	ASTM D2270	150	150	160	166
Flash Point °C	ASTM D92	260	260	260	260
Pour Point °C	ASTM D5950	-40	-34	-30	-30
Distilled Water		Pass	Pass	Pass	Pass
Rust Test	ASTM D665	Pass	Pass	Pass	Pass
Copper Corrosion (3hr@121°C)	ASTM D130	1.0B	1.0B	1.0B	1.0B

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](http://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 CIRCULATING COMPRESSOR TURBINE OIL	Tote: 1040 L / 275 GAL	KL-HF8795
ISO 220 CIRCULATING COMPRESSOR TURBINE OIL	Pail: 18.9 L / 5 GAL	KL-HF9280
	Bulk	KL-HF9299
ISO 460 CIRCULATING COMPRESSOR TURBINE OIL	Tote: 1040 L / 275 GAL	KL-HF9495
	Bulk	KL-HF9499
ISO 680 CIRCULATING COMPRESSOR TURBINE OIL	Drum: 208 L / 55 GAL	KL-HF9690

## 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.

### KLONDIKE Lubricants Corporation

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