

# KLONDIKE BIO HFDU Hydraulic Oils



## PRODUCT DESCRIPTION

KLONDIKE BIO HFDU Hydraulic Oils are fully biodegradable, non-toxic, high performance hydraulic oils that meet industry requirements for environmentally acceptable lubricants (EAL). These advanced fluids are designed to give maximum protection and performance in hydraulic equipment used in environmentally sensitive areas.

## APPLICATIONS

KLONDIKE BIO HFDU Hydraulic Oils are designed for maximum performance and system protection in industrial and mobile hydraulic equipment. Typical industries where this advanced technology is ideal for use include construction, mining, dredging, marine, agriculture, exploration, oil and gas, and production plant operations.

KLONDIKE BIO HFDU Hydraulic Oils are designed for use in hydraulic systems operating in environments where fire hazard is at high risk such as (but not limited to); steel mills, foundries, die/continuous casting plants, ovens, incineration plants, welding operations, tunnel boring machines, public works equipment.

KLONDIKE BIO HFDU Hydraulic Oils are chemically compatible with most mineral based and polyolester based hydraulic fluids. Do not mix with water/glycol type fire resistant hydraulic fluids.

For optimum performance, always follow the viscosity grade recommendation of the system manufacturer.



## FEATURES AND BENEFITS

KLONDIKE BIO HFDU Hydraulic Oils are readily biodegradable, non-toxic, and non-bio accumulative. The exclusive use of premium synthesized ester base stocks and ashless, zinc free additive technology ensures that, in the event of a spill, the product will degrade in excess of 60% within 28 days, minimizing any potential impact to the environment. This standard is outlined in OECD 301B for a product to qualify for readily biodegradable status. KLONDIKE BIO HYDU Hydraulic Oils are designed to offer outstanding anti-wear and extreme pressure protection in hydraulic equipment used in both mobile and stationary hydraulic pumps in high-performance industrial applications. Technically advanced chemistry provides exceptional oxidation stability, water separability, foam suppression, and protection against wear, rust, and corrosion. Naturally high viscosity index allows operation over a wide ambient and operating temperature range and ensure outstanding operating system efficiency.

KLONDIKE BIO HFDU Hydraulic Oils exceed the performance expectations of conventional, antiwear hydraulic oils, while ensuring the highest level of environmental protection in case of leakage or accidental discharge into the environment. BIO HFDU type hydraulic oils are formulated in compliance with FM - Factory Mutual Approval Standard 6930, ISO 12922, and ISO 15380 specifications.

KLONDIKE BIO HFDU Hydraulic Oils provides value through the following benefits:

- **Fire Resistant** – high flash point and ignition temperature minimizes spontaneous combustion risk.
- **Advanced performance** – Ashless formulation provides outstanding protection for hydraulic pumps and systems for high operating efficiency.
- **Long oil life** – highly resistant to oxidation at high temperatures for long service life.



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## TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	BIO HFDU 46
ISO Grade		46
Viscosity cSt. @ 40°C	ASTM D445	46.0
Viscosity cSt. @ 100°C	ASTM D445	9.2
Viscosity Index	ASTM D2270	202
Pour Point, °C	ASTM D97	-27
Flash Point, °C	ASTM D92	320
Fire Point, °C	ASTM D92	370
FZG Load Stage Protection	DIN 51354-2	>12
Corrosion Protection	ASTM D665A	Pass
Biodegradability, 28 Days	OECD 301B	>70%
Biodegradable status	OECD 301B	Readily

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

### 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.

### PRODUCT NUMBERS

BIO HFDU Hydraulic Oils	Pail: 18.9 L / 5 GAL	KL-BL3380
	Drum: 208 L / 55 GAL	KL-BL3390

### 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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