

# KLONDIKE Bio HEES Hydraulic Oils



## PRODUCT DESCRIPTION

KLONDIKE Bio HEES Hydraulic Oils are full synthetic, readily 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 HEES 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 HEES Hydraulic Oils are designed for use in hydraulic systems utilizing vane, piston, and gear-type pumps including (but not limited to) systems referencing ISO 15380, HEPR in mobile and stationary use.

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



## FEATURES AND BENEFITS

KLONDIKE Bio HEES Hydraulic Oils are readily biodegradable, non-toxic, and non-bio accumulative. The exclusive use of premium ester synthetic 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 HEES Hydraulic Oils are designed to give maximum 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. High VI synthetic formulations allow operation over a wide ambient and operating temperature range and ensure outstanding operating system efficiency.

KLONDIKE Bio HEES Hydraulic Oils are designed to 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 natural environment.

KLONDIKE Bio HEES Hydraulic Oils provides value through the following benefits:

- **Environmentally acceptable** – fluid chemistry meets the requirements of the EPA Vessel General Permit (VGP) for biodegradation, toxicity, bioaccumulation.
- **Advanced performance** – Ashless formulation provides outstanding protection for hydraulic pumps and systems for high operating efficiency.
- **Long oil life** – ester synthetic base is highly resistant to oxidation at high temperatures for maximum service life (relative to vegetable-based fluid technologies).
- **Extreme temperature performance** – High viscosity index and very low pour point ensures good low temperature fluidity and pumpability.
- **Zinc-free** – Suited for applications involving yellow metals found in some hydraulic pumps.



# KLONDIKE Bio HEES Hydraulic Oils

## TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	BIO HEES 32	BIO HEES 46
ISO Grade		32	46
Viscosity cSt. @ 40°C	ASTM D445	33.6	45.86
Viscosity cSt. @ 100°C	ASTM D445	8.0	10.96
Viscosity Index	ASTM D2270	223	241
Pour Point	ASTM D97	-58	-54
Biodegradability, 28 Days	OECD 301B	>76%	> 76%
Biodegradable status	OECD 301B	Readily	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 HEES 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

Toll-free 1-877-293-4691

[info@klondikelubricants.com](mailto:info@klondikelubricants.com)  
[www.klondikelubricants.com](http://www.klondikelubricants.com)

