

# KLONDIKE AW Advanced Formula Hydraulic Fluids: ISO 22, 32, 46, 68, 100



## PRODUCT DESCRIPTION

KLONDIKE Anti-Wear (AW) Advanced Formula Hydraulic Fluids are designed for high performance hydraulic systems. These fluids provide excellent operating and maintenance benefits for increased productivity.

## APPLICATIONS

KLONDIKE Anti-Wear Advanced Formula Hydraulic Fluids are recommended for vane, piston, or gear-type hydraulic pumps in heavy duty and industrial service.

Check your owner's manual for correct fluid viscosity



## SPECIFICATIONS AND APPROVALS

KLONDIKE AW Advanced Formula Hydraulic Fluids are recommended for use where the following specifications are listed. Some specifications are viscosity grade specific. Refer to equipment owner's manual for correct viscosity grade recommendations.

- ASTM D6158
- Cincinnati/MAG IAS P-68 (AW 32)
- Cincinnati/MAG IAS P-69 (AW 68)
- Cincinnati/MAG IAS P-70 (AW 46)
- Parker Denison HF-0, HF-1, HF-2
- Sperry Vickers/Eaton I-286-S, M-2950-S
- Eaton E-FDGN-TB002-E, 35VQ25A
- US Steel 127, 136
- DIN 51524 Part 1, 2, 3
- General Motors LS-2
- JCMAS HK
- Bosch Rexroth
- Racine

## FEATURES AND BENEFITS

KLONDIKE Anti-Wear Advanced Formula Hydraulic Fluids are manufactured with paraffinic base oils and high performance additives. They provide trouble free service in high output hydraulic systems at high temperature and pressure. This hydraulic fluid is designed to operate over a broad temperature range, resulting in lower maintenance cost and production down time. KLONDIKE Anti-Wear Advanced Formula Hydraulic Fluids have increased discharge flow rates and decreased internal pump leakage rates resulting in increased hydraulic system pumping efficiency, and therefore fewer fluid changes and less used fluid disposal. Premium base oils and advanced additive technology are highly resistant to oxidation and viscosity breakdown ensuring long service life in demanding applications. These hydraulic oils may also be used as general purpose lubricants where straight mineral oils and conventional rust and oxidation inhibited oils are recommended.

KLONDIKE Anti-Wear Advanced Formula Hydraulic Fluids deliver value through the following benefits:

- **Long equipment life** – anti-wear additives minimize wear by protecting surfaces even when heavy loads cause lubricant film breakdown.
- **Minimized downtime** – rust and oxidation inhibitor system helps prevent the production of rust formation as well as deposits, varnish, and sludge, which can damage metal surfaces and oil seals.
- **Smooth operation** – excellent fluid stability and water separation characteristics promote filterability even in the presence of water contamination. Anti-foam and air release properties help ensure smooth operation and high system efficiency.



# KLONDIKE AW Advanced Formula Hydraulic Fluids

## TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	KLONDIKE				
		AW 22	AW 32	AW 46	AW 68	AW 100
Gravity; °API	ASTM D287	33.5	32.44	31.5	30.7	30.2
Specific Gravity @ 15.6°C	ASTM D4052	0.857	0.863	0.868	0.872	0.875
Viscosity @ 40°C (cSt)	ASTM D445	22.0	32.0	46.0	68.0	100.0
Viscosity @ 100°C (cSt)	ASTM D445	4.5	5.55	7.02	9.05	11.5
Viscosity Index	ASTM D2270	114	112	112	110	105
Flash Point °C	ASTM D92	210	210	225	228	230
Pour Point °C	ASTM D5950	-44	-40	-36	-33	-30
Color	ASTM D1500	0.5	0.5	1.0	1.0	1.0
Zinc, wt %	ASTM D5185	0.04	0.04	0.04	0.04	0.04
Phosphorus, wt.%	ASTM D5185	0.03	0.03	0.03	0.03	0.03
Calcium wt. %	ASTM D5185	0.003	0.003	0.003	0.003	0.003
Oxidation hours	ASTM D943	8000 +	8000 +	8000 +	8000 +	5000 +

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

### PRODUCT NUMBERS

AW 22 ADVANCED FORMULA	Pail: 18.9 L / 5 GAL	KL-HF1080
	Drum: 208 L / 55 GAL	KL-HF1090
	Tote: 1040 L / 275 GAL	KL-HF1095
	Bulk	KL-HF1099

AW 32 ADVANCED FORMULA	Jug: 4.73 L / 1.25 GAL	KL-HF1260
	Jug: 9.46 L / 2.5 GAL	KL-HF1275
	Pail: 18.9 L / 5 GAL	KL-HF1280
	Drum: 208 L / 55 GAL	KL-HF1290
	Tote: 1040 L / 275 GAL	KL-HF1295
	Bulk	KL-HF1299

AW 46 ADVANCED FORMULA	Jug: 4.73 L / 1.25 GAL	KL-HF1460
	Pail: 18.9 L / 5 GAL	KL-HF1480
	Drum: 208 L / 55 GAL	KL-HF1490
	Tote: 1040 L / 275 GAL	KL-HF1495
	Bulk	KL-HF1499

AW 68 ADVANCED FORMULA	Pail: 18.9 L / 5 GAL	KL-HF1680
	Drum: 208 L / 55 GAL	KL-HF1690
	Tote: 1040 L / 275 GAL	KL-HF1695
	Bulk	KL-HF1699

AW 100 ADVANCED FORMULA	Pail: 18.9 L / 5 GAL	KL-HF1880
	Drum: 208 L / 55 GAL	KL-HF1890
	Bulk	KL-HF1899



## KLONDIKE AW Hydraulic Fluids Advanced Formula

### 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.

### 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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