

# KLONDIKE Universal Tractor Fluid



## PRODUCT DESCRIPTION

KLONDIKE Universal Tractor Fluid is a specialized, advanced formulation designed to fulfill the torque transfer, hydraulic, and power transmission requirements of farm tractors and other mobile off-road equipment. This multi-functional fluid provides outstanding operating and maintenance benefits across a broad temperature range for increased operating efficiency, performance, and component protection.

## APPLICATIONS

KLONDIKE Universal Tractor Fluid is designed and recommended for use in all kinds of agricultural equipment, off-highway machinery, and industrial tractors. This premium, multi-functional formulation is a single fluid that may be used to lubricate all conventional points on an agricultural or industrial tractor or piece of mobile equipment that has a common sump supplying oil to the transmission, final drive, power take-off, wet brakes, power steering, hydrostatic, and hydraulic systems. This fluid is suitable for use in all major brand OEM equipment where such a fluid is specified.

This multi-functional fluid also meets the requirements of API GL-4 gear oil, Allison C-4 off road transmission specifications, and hydraulic pump manufacturer's requirements for anti-wear hydraulic fluid.



## FEATURES AND BENEFITS

KLONDIKE Universal Tractor Fluid is formulated with the highest quality, ultra-pure paraffinic components and high performance additives. These advanced base oils have been chosen to maximize performance and provide long term, trouble free service in high-torque, high-output applications operating under heavy loads and severe stress. This multi-functional fluid will deliver smooth power transfer and reliable, consistent performance in modern, heavy duty equipment operating in conditions subject to wide ambient and system operating temperatures.

KLONDIKE Universal Tractor Fluid delivers value through the following benefits:

- **Friction material compatibility** – balanced frictional characteristics and high shear stability ensure precise clutch and wet brake operation with unsurpassed chatter suppression.
- **High oxidation stability** – extra resistance to thermal degradation provides superior protection against oxidation and deposit formation.
- **Outstanding anti-wear** – exceptional protection against wear from microscopic contaminants at high operating temperatures and pressures ensures long equipment life.
- **Increased efficiency** – the right fluid maximizes equipment reliability and minimizes maintenance costs.
- **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 Universal Tractor Fluid is recommended for use where the following OEM specifications are required:

- AGCO Brands: PowerFluid 821, 821 XL (Deutz, Allis-Chalmers)
- Allison: C-4, C-3, C-2 (agriculture applications)
- API: GL-4
- Case: JIC 144, 145(TCH Fluid), MS-1204, MS-1207 (HyTran Plus), MS-1209 (HyTran Ultra/Multi Tran), MS-1210 (TCH), MS-1230 (Poclairn Hydraulic)
- CAT: TO-2
- CNH (Case New Holland): MAT 3525, MAT 3505,
- ABEX/Denison: UTTO, HF-0,1,2
- FNH (Ford New Holland): A-2-C-200/201, M2C41A/B, M2C48B, M2C53A, M2C86A/B, M2C134A/B/C/D (NH-410B)
- Grove Manufacturing: Hydraulic Fluid
- Hesston- Fiat: AF-87 (Multi-F), Oilofiat Tutela
- IHC (International Harvester): B-5, B-6 (HyTran)
- JCMAS (Japanese Construction Mechanization Association): HK P-041, P-042
- John Deere: J-20C, J20 A/B, J21A, J14C, JDT303,
- Komatsu AX080
- Kubota: UDT
- Landini: Tractor Hydraulic Fluid
- Massey Ferguson: M-1110, M-1127, M-1127A/B, M-1129, M-1129A, M-1135, M-1141 , M-1143, M-1145
- Clark Lift Truck: Trans Fluid TA12, TA18, HR500, HR600
- Volvo: WB101
- ZF TE-ML-03E, TE-ML-05F
- Oliver/White: Q1826, Q1802, Q1766, Q1766B, Q1722, Q1705, Type 55,
- Sauer/Danfoss (Sunstrand): Hydrostatic Trans Fluid
- Steiger: Hyd-Trans Fluid (SEMS 17001)
- Versatile Gear & Hydraulic Transmission Fluid: 23 M & 24M
- Vickers: I-286-S, M-2950-S, 35VQ25

KLONDIKE Universal Tractor Fluids are also recommended for use in (but not limited to) the following equipment applications: Belarus, David Brown, Dresser CED, Fendt (Non-Vario), IMT, Kioti, Landini, Leyland, McCormick Farmall, Mitsubishi, New Idea, Renault, Universal, Versatile, Valmet, and others.

## TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	UNIVERSAL
Gravity; °API	ASTM D4052	32.5
Specific Gravity @ 15.6°C	ASTM D4052	0.863
Viscosity @ 40°C (cSt)	ASTM D445	55.15
Viscosity @ 100°C (cSt)	ASTM D445	9.5
Viscosity Index	ASTM D2270	152
Flash Point °C	ASTM D92	225
Pour Point °C	ASTM D5950	-42
Zinc, wt %	ASTM D4927	0.139
Phosphorus, wt. %	ASTM D5185	0.13
Calcium wt. %	ASTM D5185	0.334
Boron wt. %	ASTM D5185	0.007
Nitrogen wt. %	ASTM D4629	0.035
Sulfur wt. %	ASTM D4951	0.073
Brookfield, Vis @ -20°C, cP	ASTM D2983	4,000
Brookfield, Vis @ -35°C, cP	ASTM D2983	22,000
Brookfield, Vis @ -40°C, cP	ASTM D2983	50,000
TBN, mgKOH/g	ASTM D2896	8.5
Foam Seq. I / II / III	ASTM D892	PASS

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.

## PRODUCT NUMBERS

UNIVERSAL TRACTOR FLUID	Jug: 4.73 L / 1.25 GAL	KL-HF8060
	Jug: 9.46 L / 2.5 GAL	KL-HF8075
	Pail: 18.9 L / 5 GAL	KL-HF8080
	Drum: 208 L / 55 GAL	KL-HF8090
	Tote: 1040 L / 275 GAL	KL-HF8095
	Bulk	KL-HF8099

## 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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