



Universal Tractor Fluid Full Synthetic

STARFIRE Universal Tractor Fluid Full Synthetic 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 high performance fluid provides outstanding operating and maintenance benefits across a broad temperature range for increased operating efficiency, performance, and component protection.

Applications:

STARFIRE Universal Tractor Fluid Full Synthetic 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, 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 API GL-4 gear oil specifications, Allison C-4 off road transmission fluid specifications, and hydraulic pump manufacturer's requirements for anti-wear hydraulic fluid.

Features and Benefits:

STARFIRE Universal Tractor Fluid Full Synthetic is formulated with the highest quality, ultra-pure full synthetic base oils 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 high performance 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.

STARFIRE Full Synthetic Universal Tractor Fluid is specially formulated with STARFIRE's advanced Arctic Performance Technology to deliver outstanding protection and performance in extreme cold temperature operating conditions. Ultra-premium full synthetic base oils deliver maximum component protection and offer extended drain capability. Highly specialized additive technology ensures outstanding reliability and performance in low temperature applications ensuring equipment startup and minimized wear in these extreme conditions

STARFIRE Universal Tractor Fluid Full Synthetic 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.



Specifications and Approvals:

STARFIRE Universal Tractor Fluid Full Synthetic is recommended for use where the following OEM specifications are required:

- AGCO Brands: PowerFluid 821, 821 XL (Oeutz, 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),
- CAT: TO-2
- Clark Lift Truck: TA12, TA18, HR500, HR600
- CNH (Case New Holland): MAT 3525, MAT 3505,
- Oenison: UTTO, HF-0,1,2
- FNH (Ford New Holland): A-2-C-200/201, M2C41A/B, M2C48B, M2C53A, M2C86A/B, M2C134A/B/C/O (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 20D, J-20C, J-200, J20 A/B, J21A, J14C, JOT303,
- Komatsu: AXO 80
- Kubota: UDT, Super UDT, Super UDT-2
- Landini: Tractor Hydraulic Fluid
- Massey Ferguson: M-1110, M-1127, M-1127A/B, M-1129, M-1129A, M-1135, M-1141
- Oliver/White: Q1826, Q1802, Q1766, Q1766B, Q1722, Q1705, Type 55,
- Sauer/Oanfoss (Sunstrand): Hydrostatic Trans Fluid
- Steiger: Hyd-Trans Fluid (SEMS 17001)
- Versatile Gear & Hydraulic Transmission Fluid: 23M & 24M
- Vickers: I-286-S (Industrial hydraulics), M-2950-S (Mobile hydraulics), 35VQ25
- ZF - TE-ML 03E, 05F, 06K, 17E (except hypoid gear applications)
- Volvo: VCE 1273.03, VME, WB101, WB102

STARFIRE Universal Tractor Fluid Full Synthetics 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 Properties:

Typical Test Data	UTH SYN J20D WB102
Pour Pt °C	-50
Viscosity: cSt @40C	41.1
	cSt @ 100°C
Viscosity Index	173
BrookField D2983 (cP)	16,620 @ -40 °C
Density (lb/gal) @ 60F	7.301
Specific Gravity	0.876
Gravity, API	30.1
Color (max)	L 2