



HICKS oils  
845 N. Hickory  
DuQuoin, IL 62832

Sales: (314) 525-2568  
Operations: (618) 542-5431



## Universal Tractor Hydraulic Fluid (UTHF)

FORMULA 500® Universal Tractor Hydraulic Fluid fulfills the torque transfer, hydraulic, and power transmission requirements of farm tractors and implements. Specifically, it has been tailored to:

- Lubricate the transmission, differential and final drive gears
- Act as a power steering, power brake, power take-off, hydraulic, and implement drive fluid
- Provide a medium with the correct friction stability and heat transfer properties for proper operation of the tractor wet brakes and power take-off units.

FORMULA 500® Universal Tractor Hydraulic Fluid is an outstanding product for tractor lubrication. Its superior extreme pressure and anti-wear performance protects tractor transmissions, axles, and hydraulic pumps. The frictional characteristics of the fluid minimize “chatter” while enabling the proper operation of wet brakes. These characteristics provide smooth engagement of the power take-off clutch.

FORMULA 500® Universal Tractor Hydraulic Fluid provides excellent rust and corrosion protection and good oxidation stability for high temperature service. Universal Tractor Hydraulic Fluid is a SAE viscosity grade 10W-30 and meets API GL-4 gear oil specifications. FORMULA 500® Universal Tractor Hydraulic Fluid should not be used where a Caterpillar TO-4 fluid is required.

### Typical Properties:

Product: FORMULA 500® Universal Tractor Hydraulic Fluid	
SAE Viscosity Grade	10W-30
Product Code	1200
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	10.80
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	66.00
Viscosity Index (ASTM D-2270)	150
Ash, wt%	1.30



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FORMULA 500® Universal Tractor Hydraulic Fluid is recommended for use in most hydraulic fluid and transmission oil applications for tractors and implements including:

- AGCO: Massey Ferguson M-1145, M-1143, M-1141, M-1138, M-1135 Permatran III, White Q-1826
  - Massey Ferguson M-1110, 1127 (A&B), 1129A Permatran, 1139
  - Oliver: Type 55, 5J
  - New Idea Q1802
  - Minneapolis-Moline/White: Q-1705, 1722, 1766, 1766B (UTHF), 1802
  - Deutz: Hyd Trans Fluid; Deutz-Allis 25743, 272843; Allis-Chalmers PowerFluid PF-821 & PF821 XL, 25741, 246634 Hydr Trans Fluid
  - Landini Tractor Hydraulic Fluid
  - AGCO-Allis
- Allison C-4 (as part of JD20C)
  - Allison C-2, C-3
- API GL-4
- Case New Holland MAT 3505 , MAT 3506
  - JI Case MS-1204, 1205, 1206 (Powergard PFT), 1207 (HyTran Plus), 1209 (HyTran Ultra or Multi Tran)
  - JI Case MS-1210
  - IHC B-5 (International Harvester), B-6 HyTran
- Case New Holland MAT 3525 &3526, ESN M2C86B
  - FNHA-2-C-200, FNHA-2-C-201, JI Case MS-1216, MS-123-, MS-1317, MS-143, 144, 1145 (TCH Fluid), MS-185 (TFD Fluid), M2C (A-C), ESN-M2C134A, B, C, D; ESN-M2C-77A, ESN-M2C86-A&C, ESN-M2C-41B, ESN-M2C-43, ESN-M2C-48B&C, ESN-M2C53-A&B, ESN-142A, ESN-M2C143, ESN-M2C92A, ESN-M2C159 (A,B,C)
  - International Farmall JIC-143, 144, 145, JIC185
  - Versatile Gear & Hydraulic Transmission Fluid, 23 M &24M
  - Renk-Doromat 873 or 874 A/B Bus Automatic Transmission Fluid
  - Fiat-Hesston AF-87
  - Valcatores, Steiger HTF (SEMS 17001)
- Eaton Vickers
  - Sperry Vickers/Eaton I-286-S, M-2950-S
- JCMAS (Japanese Construction Mechanization Association) HK P-041 &P-042
- John Deere J-20C, J-20D
  - J14 (A,B,C), JDT303, J20A,B HyGard, J121A, Quatrol
- Komatsu
- Kubota UDT



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- M80B & Yanmar
- Parker (Dennison UTTO, HF-0,1,2)
- Volvo (VCE 1273.03, WB101)
  
- Other
  - Steiger Hydr Trans Fluid
  - Sauer Sunstrand/Danfoss Hydro Static Trans Fluid

Key:

- Active Specification
  - Obsolete specification superseded by corresponding active UTHF specification