



AGRA UTTO SUPREME

Full-Synthetic Tractor Hydraulic & Transmission Fluid (UTTO)

Rev: Feb 12, 2026

DESCRIPTION

AGRA UTTO Supreme represents the peak of multi-functional tractor fluid technology. It is a true multi-functional UTTO-type fluid (Universal Tractor Transmission Oil) — an all-season, ultra-high-performance fluid for agricultural and construction equipment that requires a single fluid to serve transmissions, wet brakes, and hydraulic systems. Cold flow extends to -40°C while thermal transfer and lubrication hold up in high ambient heat, and the full-synthetic formulation sustains continuous operation and stability in high-load, high-torque service.

AGRA UTTO Supreme is recommended across an extremely wide range of agricultural and heavy-duty off-road transmission and hydraulic applications — the majority of farm tractors, combines, construction equipment, and severe-service hydraulic systems. It meets the performance requirements of the major tractor OEMs for hydraulic and transmission service, including John Deere, Case, CLAAS, New Holland, Massey Ferguson, and Kubota.

It is recommended as a direct replacement for John Deere Hy-Gard™, Ambra™ MULTI G (API GL-4 and MAT 3525 UTTO), AKCELA™ HY-TRAN Ultra, and AKCELA Nexlore UTTO fluids.

PERFORMANCE HIGHLIGHTS

- **Outstanding clutch-plate friction control** — balanced frictional characteristics eliminate noise, chatter, and slippage while holding torque transfer
- **Exceptional cold flow** — pours to -40°C with excellent viscosity stability across the season
- **High-load, low-speed capability** — maintains film strength in severe-service duty cycles
- **Gear and synchronizer protection** — guards against corrosion and wear across helical, spiral bevel, and spur gear systems
- **Superior viscosity stability** — helps prevent overheating and hydraulic pump or hose failure
- **Consistent hydraulic response** — supports precise shifting, predictable hydraulics, and long component life
- **Improved sludge and scuffing control** — substantially better deposit and gear-scuffing resistance than ordinary tractor fluids
- **Extended service life** — up to 3× the life of conventional hydraulic tractor fluids
- **Outstanding foam control** — near-zero foaming with extremely rapid air release

APPLICATIONS

For combinations of transmissions, hydraulic systems, final drives, power take-off systems, and wet brakes in agricultural and construction equipment operating in all-weather hot and cold conditions — including but not limited to John Deere (all tractors), Case, Volvo, Caterpillar, Kubota, Komatsu, Ford, New Holland, Fendt, Deutz-Fahr, Massey Ferguson, CLAAS, and JCB.

SPECIFICATIONS

Suitable for use wherever the following OEM standards, approvals, or specifications are called for:

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| ■ John Deere J20C, J20D (winter grade), J14A/B/C, JDT303, J20A/B, J12A | ■ Caterpillar TO-2 |
| ■ Massey Ferguson M-1141 (Permatran® 821 XL, formerly Permatran® III), M-1110, M-1127A/B, M-1129A, M-1135, M-1138, M-1139, M-1143, M-1145 | ■ Deutz-Allis 25743, 272843 |
| ■ Ford ESN M2C86B, M2C86C, Fiat requiring M2C134D, FNHA-2-C-200.01 | ■ Deutz-Fahr all UTTO-type applications |
| ■ Kubota UDT/M80B, UDT2, Super UDT2 | ■ Fendt all non-Vario applications |
| ■ ZF TE-ML 03E, TE-ML 05F, TE-ML 06K, TE-ML 17E | ■ Fiat-Hesston AF-87 |
| ■ Volvo VCE 1273.03, WB101 | ■ Landini tractor hydraulic fluid |
| ■ Parker Denison HF-0, HF-1, HF-2 | ■ Steiger HTF (SEMS 17001) |
| ■ Sperry Vickers / Eaton I-286-S, M-2950-S | ■ Sauer Sundstrand / Danfoss hydrostatic transmission fluid |
| ■ Clark TA 12, TA 18, HR 500, HR 600 | ■ Dresser CED transmission / hydraulic fluid |
| | ■ Versatile Valmet, New Idea power units, Leyland Belarus, specs 23M & 24M |
| | ■ Komatsu |

TYPICAL PROPERTIES

Property	AGRA UTTO Supreme	Test Method
Specific Gravity @ 15 °C	0.87	DIN 51757
Kinematic Viscosity @ 40 °C, cSt	53.17	ASTM D445
Kinematic Viscosity @ 100 °C, cSt	9.80	ASTM D445
Viscosity Index	173	ASTM D2270
Flash Point, °C	226	ASTM D92
Pour Point, °C	-45	ASTM D97
Brookfield Viscosity @ -40 °C, cP	19,600	ASTM D2983
Colour	Red	Visual
John Deere JDQ23 Foaming — Sequence 1	0	JDQ23
Sequence 2	0	JDQ23
Sequence 3	0	JDQ23
Copper Strip Corrosion, 3 h @ 100 °C	1A	ASTM D130
Copper Strip Corrosion	1A	NF M07-015

Small deviations from these results are expected during the manufacturing process and do not affect product performance, and product formulations are subject to change without notice.

FIELD TEST PERFORMANCE DATA

Proven in field testing across 250 pieces of equipment over 250,000 hours of operation on John Deere, New Holland, Ford, J. I. Case, International Harvester, Massey Ferguson, and Kubota tractors.

MASSEY FERGUSON M-1141 TRANSMISSION / CLUTCH TEST

42%

less sludge and deposits than the OEM specification for oxidation resistance (4L60E oxidation field test)

33.7%

less slippage in powershift transmission testing versus Allison C-4 OEM requirements

22.7%

more mid-point friction coefficient retention versus OEM requirements

37%

less wet brake chatter versus Massey Ferguson and John Deere OEM specifications

43.6%

more input torque to the flywheel than the Permatran® III reference oil in M-1141 field testing

JOHN DEERE J20C / J20D HYDRAULIC, TRANSMISSION & FINAL DRIVE TEST

53%

better than OEM requirements for JDQ95 spiral bevel & final drive, JDQ96 brake torque variation and friction retention, JDQ94 PST clutch performance, and JDQ84 hydraulic pump performance

FORD / NEW HOLLAND FNHA-2-C-201.00

10%

better than OEM requirements across Ford 3000 gear wear, Ford 7710 and 4610 IPTO engine stall time, Ford 6610 brake test, and SAE J1041 brake capacity / safety testing

FIELD EVIDENCE — 2,000 HOUR TEARDOWN

Components pulled from equipment run on conventional hydraulic tractor fluid against equipment run on AGRA UTTO Supreme. The conventional-fluid parts were removed at 500 hours; the AGRA UTTO Supreme parts at 2,000 hours — four times the interval.

Sludge from regular HTF after 500 hours

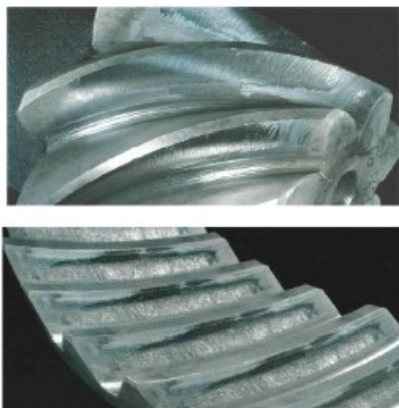


TRIAx Agra UTTO Supreme after 2000 hours



90% less sludge

Gear scoring from regular tractor fluids on pinion and ring



TRIAx Agra UTTO Supreme after 2000 hours 80% less gear wear



Photographs taken during field-test teardown. Sludge and gear-wear reductions are measured against conventional hydraulic tractor fluid under the same duty cycle; run hours differ as noted above. Component condition varies with equipment, maintenance history, and operating environment.