



Agra UTTO XL

Synthetic Blend Universal Tractor Transmission Oil (UTTO)

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DESCRIPTION

TRIAX Agra UTTO XL is a synthetic blend Universal Tractor Transmission Oil (UTTO) engineered for the combined transmission, hydraulic, final drive, wet brake, differential, and PTO requirements of modern agricultural and off-road equipment operating from a single fluid reservoir. The formulation leverages a balanced friction-modifier and EP/anti-wear additive system to deliver smooth PTO clutch engagement, anti-chatter wet-brake performance, and high-load gear protection under severe-service operating conditions. Designed for year-round all-weather operation across a wide ambient temperature range, the advanced chemistry handles sludge formation and gear scuffing, prevents hydraulic pump and hose failure from viscosity loss, and maintains stable friction properties over extended drain intervals — verified across more than 250,000 hours of field testing.

PERFORMANCE HIGHLIGHTS

- 2× the service life of conventional UTTO tractor fluids, validated across more than 250,000 hours of cumulative field testing
- **42% less** sludge and deposits in oxidation field testing, **33.7% less** powershift transmission slippage vs Allison C-4 OEM requirements, and **22.7% more** mid-point friction coefficient retention vs OEM requirements*
- **53% better** than OEM across JDQ95 Spiral Bevel & Final Drive, JDQ96 Brake Torque Variation & Friction Retention, JDQ94 PST Clutch Performance, and JDQ84 Hydraulic Pump Performance tests for John Deere J20C/J20D**
- **37% less** wet-brake chatter and **43.6% more** input torque to the flywheel vs Permatran III reference oil in Massey-Ferguson M1141 transmission and clutch testing**
- **10% better** than OEM requirements across the Ford New Holland FNHA-2-C-201.00 test suite (Ford 3000 Gear Wear, 4610 and 7710 IPTO Engine Stall, 6610 Brake Test, SAE J1041 Brake Safety)**
- Exceptionally balanced friction modifier and EP/anti-wear additive system eliminates PTO clutch slippage, wet-brake chatter, and gear noise
- Virtually zero foaming with rapid air release; superior viscosity stability prevents hydraulic pump and hose failure across temperature extremes
- Direct replacement for John Deere Hy-Gard™, Ambra™ MULTI G (MAT 3525 / API GL-4), AKCELA™ HY-TRAN Ultra, and AKCELA Nexlore UTTO fluids

*Per 4L60E Oxidation Field Test and Allison C-4 Powershift Transmission test results. **Per Massey-Ferguson M1141, John Deere JDQ-series (J20C/D), and Ford New Holland FNHA-2-C-201.00 field test programs; cumulative 250,000+ hours across 250 pieces of equipment.

SPECIFICATIONS & APPLICATIONS

TRIAX Agra UTTO XL is purpose-built to be a suitable replacement for any and all UTTO, STOU, and tractor hydraulic-transmission fluids, including those from John Deere, CASE/IH, New Holland, AGCO/Fendt, Massey Ferguson, Kubota, Caterpillar, Komatsu, Deutz-Fahr, and Volvo. Suitable for year-round all-weather service, including late-generation Fendt VARIO continuously variable transmissions.

Meets or exceeds the following OEM and industry specifications:

- John Deere JDM J20C, J20D, J14B, J14C, J21A, 303 (Hy-Gard™ equivalent)
- New Holland MAT 3505 / 3506 / 3509 / 3525 / 3526 / 3540; FNHA-2-C-201.00 / 200.00
- CASE / IH JIC-143, 144, 145, 185; MS 1204–1207, 1210, 1230, 1317
- Ford ESN M2C 134 A/B/C/D, M2C53, M2C48, M2C43, M2C86-B/C, M2C92-A
- Massey Ferguson M-1100, M-1127, M-1129, M-1135, M-1141, M-1143, M-1145 (Permatran)
- AGCO / Fendt Powerfluid 821XL; Q-1722, Q-1766, Q-1826 (Vario and Non-Vario)
- Caterpillar TO-2; Allison C-3, C-4
- Kubota UDT, Super UDT (Ambra™ MULTI-G equivalent)
- Deutz-Fahr HTF 272843, 257541, 246634; ZF TE-ML 03E / 03F / 05F / 06E / 06F / 06K / 17E / 21F
- API GL-4; Volvo WB-101 / WB-102; Denison HF-0, HF-1, HF-2; Vickers I-266-S, M-2950-S, M-2952-S, 35VQ25

TYPICAL PROPERTIES

Parameter (Test Method)	Typical Value
Viscosity, Kinematic @ 40 °C, cSt (ASTM D445)	55
Viscosity, Kinematic @ 100 °C, cSt (ASTM D445)	9.5
Viscosity Index (ASTM D2270)	157
Flash Point, °C (°F) (ASTM D92)	226 (439)
Pour Point, °C (°F) (ASTM D97)	-35 (-31)
Specific Gravity @ 60 °F (ASTM D1298)	0.87
Foaming Tendency, Seq. I / II / III, mL (ASTM D892)	0 / 0 / 0
Copper Corrosion, 3 hr @ 100 °C (ASTM D130)	1A

These are typical values. There may be small differences in actual values which are a normal part of production and do not affect product performance.

FULL SPEC LIST

Comprehensive list of OEM approvals, equivalent fluids, and industry specifications met or exceeded by TRIAX Agra UTTO XL. Where multiple designations refer to the same approval, both are listed for cross-reference.

AGCO / Fendt / Allis Chalmers: Powerfluid 821XL, Powerfluid PF-821XL, Q-1722, Q-1766, Q-1766B, Q-1705, Q-1802, Q-1826 (White-farm), Fendt White Q-1826, Fendt (Non-Vario), Fendt (Vario), Type 55

Case Corporation: JIC-143, JIC-144, JIC-145, JIC-185

Case New Holland: MAT 3505 (MS1209), MS1204, MS1205, MS1206, MS1207, MAT 3506 (MS1210), MAT 3509 (MS1230), MAT 3525 (FNHA-201.00 = M2C 134D), MAT 3526 (FNHA 2-C-200.00), MAT 3510 (MS1317 = GL-4), MAT 3540

Caterpillar: TO-2

Ford ESN: M2CC53-B, M2C48-A, M2C86-C, M2C43, M2C41-B, M2C92-A 4141-B, M2C48-B, M2C53-C, M2C77-A, M2C86-B, M2C 86B and C, ESN-M2C 134-A, B, C, D

New Holland (additional): FNHA-2-C-201.00; ESN-M2C134 A, B, C, D; ESN-M2C53-A, B; ESN-M2C48-A, B; ESN-M2C43; ESN-M2C41-B; ESN-M2C92-A

Denison Hydraulics: HF-0, HF-1, HF-2

John Deere: JDM J20C, J20D, J14B, J14C, J21A, 303 (Hy-Gard™ equivalent)

Ambra: Multi-G, AF-87, Multi-F

Deutz-Fahr: HTF 272843, 257541, 246634 (Hydraulic Transmission Fluid)

Massey Ferguson (Permatran): CMS M1135, CMS M1141, CMS M1143, CMS M1145, M-1100, M-1110, M-1127, M-1127A and B, M-1129, M-1138, M-1143, M-1192A

Renk: Doromat 874 A, Doromat 874 B

International Harvester: B6

Kubota: UDT, Super UDT

Komatsu, Landini, Claas / Renault (Renault Transmissions), Stieger

Sundstrand: Specification 23M, 24M

Versatile: Specification 23M, 24M

Vickers: I-266-S, M-2950-S, M-2952-S, 35VQ25 (Vickers Pumps)

Volvo: VCE, VME, WB 101, WB 102

ZF TE-ML: 03E, 03F, 05F, 06E, 06F, 06K, 17E, 21F

Allison: C-3, C-4

API: GL-4

Industry: B-5, B-6, SEMS 17001

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