

TRIAX AGRA UTTO SUPREME



FULL SYNTHETIC TRACTOR HYDRAULIC & TRANSMISSION

TRIAX AGRA UTTO Supreme represents the peak of multi-functional tractor fluid technology in all respects. This is a true-multi-functional UTTO Type fluid (Universal Tractor Transmission Oil) all season ultra-high performance fluid designed for agricultural and construction equipment requiring a multi-application fluid for transmissions, wet brakes and hydraulic systems. AGRA UTTO Supreme features an exceptionally high Viscosity index and flows in temperatures down to - 47 C or -52 F while providing outstanding thermal transfer and lubrication in hot ambient temperatures. Full synthetic formulation assures continuous operation and stability in high load, high torque applications.

APPLICATIONS

TRIAX AGRA UTTO Supreme is recommended for an extremely wide range of agricultural and heavy duty off-road transmission and hydraulic applications, for use in a majority of farm tractors, combines, construction equipment and severe service hydraulic systems, including late generation Fendt Variable Transmissions (Fendt VARIO).

TRIAX AGRA UTTO Supreme meets or exceeds the performance requirements set by virtually all tractor OEM's, especially high performance requirements of John Deere, CASE, CLAAS, New Holland, Massey Ferguson for hydraulic and transmission applications.

TRIAX AGRA UTTO Supreme is recommended for agricultural and construction equipment combinations of transmissions, hydraulic systems, final drives, power take-off systems and wet brakes, operating in "all-weather" hot and cold temperatures, including, but not limited to John Deere (all tractors), Case, VOLVO, Caterpillar, Kubota, Komatsu, Ford, New Holland, Fendt, Deutz Fahr, Massey Ferguson, CLAAS, JCB and many others

This product is recommended as a direct replacement for John Deere Hy-Gard™ and Hy-Gard Low Vis Tractor Hydraulic Transmission Oil, Ambra™ MULTI G for API GL-4 and MAT 3525 UTTO, AKCELA™ HY-TRAN Ultra for and AKCELA Nexplore UTTO fluids.

PERFORMANCE HIGHLIGHTS

- Excellent viscosity stability and cold flow properties
- Lowers transmission and hydraulic system operating temperature
- Outstanding clutch patch frictional characteristics, eliminating noise, chatter and slippage.
- Exceptional high load, low speed performance for severe service applications
- Protects gears and synchronizers against corrosion and wear far better than most other fluids
- Superior viscosity stability prevents overheating and hydraulic pump / hose failure
- Ensures flawless shifting, hydraulic response and long component life
- Excellent gear protection for a wide range of gear systems, including helical, spiral bevel, spur, etc.
- Exceptionally balanced frictional properties ensures excellent clutch hold and optimal torque transfer
- Substantially improved sludge control and gear scuffing compared to ordinary tractor fluids
- 3 X the life of regular HTF fluids
- Meets warranty requirements for most major OEMs tractor fluid applications
- Virtually zero foaming and features extremely rapid air release

CHEMICAL PROPERTIES

TEST CRITERIA	Result	TEST CRITERIA	Result
SPECIFIC GRAVITY @ 15°C DIN 51 757	0.87	John Deere Q23 Approval Foaming Sequence	
Viscosity @ 40°C, cSt, ASTM D445	52	Sequence 1	0
Viscosity @ 100°C, cSt, ASTM D445	10.7	Sequence 2	0
Viscosity Index, ASTM D2270	182	Sequence 3	0
Flash Point, °C, ASTM D92	226	Copper Corrosion Test (3H 100 C)	1A
Pour Point, °C, ASTM D97	-50 (-60)	NF M07-015 Copper Corrosion Test	1A
COLOR	RED		

Small deviations from these results are expected during the manufacturing process and do not affect product performance.

THE TRIAX DIFFERENCE FIELD TEST PERFORMANCE DATA

Proven field tests performance on 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.

42% less sludge and deposits than OEM specification for Oxidation Resistance in 4L60E Oxidation Field Test
33.7% less slippage in Powershift Transmission tests vs Allison C-4 OEM requirements
22.7% more Mid-point Friction Coefficient retention vs OEM requirements

MASSEY-FERGUSON M1141 TRANSMISSION / CLUTCH TEST

37% less wet brake chatter vs OEM specs of Massey Ferguson and John Deere (according to 250,000 hours of field testing)
43.6% more input torque to the fly wheel than Permatran III reference oil for M1141 field test

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

53% BETTER performance than OEM requirements for JDQ95 Spiral Bevel & Final Drive, JDQ96 Brake Torque Variation and Friction Retention, JDQ94 PST Clutch Performance, JDQ84 Hydraulic Pump Performance

FORD NEW HOLLAND

10% BETTER performance than OEM requirements for NEW HOLLAND FNHA-2-C-201.00 TESTS - Ford 3000 Gear Wear, Ford 7710 IPTO Engine Stall Time, Ford 4610 IPTO Engine Stall Time, Ford 6610 Brake Test, Brake Capacity SAE J1041 Brake Safety Test.

SPECIFICATIONS

AGCO / Fend /Allis Chalmers Powerfluid 821XL, Q-1722, Q-1766, Q-1826 (White-farm) Fend White Q-1826, Fendt (Non Vario, Fendt (Vario)

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

CASE NEW HOLLAND MAT 3505 (1209), 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, Ford ESN-M2C 134-A,B,C,D

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, J14B, J14C, J21A, 303, J20D (Agra UTTO Supreme)

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

Deutz-Fahr

HTF 272843, 257541, 246634

Massey Ferguson CMS M1135, CMS M1141, CMS M1143, CMS M1145, M-1100, M-1127,

M-1129, CMS M1135, M1141, CMS M1143, M1145 - Approved

Renk Doromat 874 A and 874 B

International Harvester B6

Kubota UDT, UTD2 and Super UTD (Triax Agra UTTO Supreme)

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

Sundstrand, Versatile Specification 23M or 24M, Vickers Pumps

VOLVO VCE, VME, WB 101 and WB 102

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

Allison C-3, C-4

API GL-4

JIC 143, 144, 145, 185

B-5, B-6, SEMS 17001

Vickers I-266-S, Viscckers M - 2950-S, Vickers 35VQ25 and M-2952-S

Versatile Specification 23M or 24M

Power Fluid PF-821XL, Power Fluid 821

272843 Hydr Trans Fluid, 257541 Hydr Trans Fluid, 246634 Hydr Trans Fluid

M-1135, M-1138, M-1143, M-1110, M-1127A and B M-1192A Permatran

White Q-1766, 1722, 1766B, 1705, 1802, Type 55

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