



TRIAX AGRA UTTO XL

Synthetic Blend Premium Long-Life Tractor Hydraulic & Transmission Fluid - Zinc Free

REPLACES 99% OF ALL AGRICULTURAL OEM FLUIDS

DESCRIPTION

TRIAX Agra UTTO Tractor Hydraulic Fluid is an synthetic blend UTTO premium grade especially formulated for use in transmissions, final drives, wet brakes, differentials and hydraulic systems of farm tractors and construction equipment that use a common fluid reservoir that call for a combination lubricant and power transmission fluid (UTTO). TRIAX Agra meets the needs of all modern tractors for high performance combination lubricant. These fluids perform many functions such as lubrication of the transmission and final drive, as well as serving as hydraulic fluid for the operation of power steering units, brakes, implements, and equipment attachments. TRIAX Agra UTTO XL Tractor Hydraulic Fluid features exceptional extreme pressure (EP) and anti-wear performance, protects tractor transmissions, axles and hydraulic pumps. The frictional characteristics are designed to minimize or eliminate "chatter" while permitting the wet brakes to hold properly. Superior additive balance assures smooth engagement of the power take-off clutch.

APPLICATIONS

TRIAX AGRA UTTO XL 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 XL 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 XL 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 Nexpleore UTTO fluids.

PERFORMANCE

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 (tested by Lubrizol Corporation). Field tests included hydraulic OEM equipment requiring the following specifications: Sperry Vickers I-286-S (Industrial), M-2950-S (Mobile Equipment), Denison HF-0, HF-1, HF-2, Sundstrand Hydraulics, Cincinnati Milacron P-68, P-69, P-70.

42% less sludge and deposits than OEM specification for Oxidation Resistance in 4L60E Transmission 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

Up to 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

- Outstanding thermal and oxidative stability
- Exceptional copper component protection
- Exceptional detergency
- Excellent rust protection, filterability
- Virtually zero foaming
- Facilitates flawless hydraulic response in nearly all operating conditions
- Patented seal protection for all types of natural or synthetic seals found in modern construction and farm equipment.
- Exceptional load carrying characteristics
- Contains Nitrogen based cleaning system to prevent sludge and varnish formations, while protecting metal surfaces against scuffing and wear, providing continuous outstanding lubrication for spur, helical, and spiral, bevel final drive gears.



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Hydraulic & Transmission Fluid - Zinc Free

PRODUCT SPECIFICATIONS

AGCO/Allis Chalmers Powerfluid 821XL
 AGCO Q-1722, Q-1766, Q-1826 (Whitefarm)
 AGCO White Q-1826
 Case Corporation – JIC-143, JIC-144, JIC-145, JIC 185
 CASE NEW HOLLAND (CNH) MAT 3505 (1209), MS1204, MS1205, MS1206,
 MS1207, MAT 3506 (MS1210), CNH 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
 Denison Hydraulics HF-0, HF-1 & HF-2
 John Deere JDM J20C, J14B, J14C, J21A, 303
 Flat-Hesson tractors Multi-G, AF-87, Multi-F
 Deutz-Fahr
 Fendt (Non Vario, Fendt (Vario)
 HTF 272843, 257541, 246634
 Massey Ferguson CMS M1135, CMS M1141, CMS M1143, CMS M1145
 Oliver – Type 55
 Renk Doromat 874 A and 874 B
 International Harvester B6
 Kubota UDT
 Komatsu
 Landini
 Claas/Renault (Renault Transmissions)
 Same (Same Transmissions)
 Steiger
 Sundstrand
 Versatile Specification 23M or 24M
 Vickers
 VCE WB 101 and (WB 102**)
 Volvo VME, WB101
 ZF TE-ML, ZF TE-ML – 03E, 03F, 05F, 06E, 06F, 06K, 17E, 21F
 Allison C-3, C-4
 API GL-4
 Massey Ferguson M-1100, M-1127, M-1129, CMS M1135, M1141, CMS M1143,
 M1145 - Approved
 Case New Holland CNH MAT 3525 (Ford ESN-M2C 134-D , FNHA- 2- C - 201.00
 Case New Holland CNH MAT 3505 (MS 1209) back serviceable to MS 1207 and
 MS 1206
 MS – 1204, 1205, 1206, 1207, 1209, 1210, 1230, 1317, CNH MAT 3509,
 CNH MAT 3510,
 ESN-M2C134 – A, B, C, D, ESN –M2C53-A, B, ESN-M2C48 – A, B
 ESN-M2C43, ESN-M2C41-B, ESN-M2C92-A
 JIC 143, 144, 145, 185
 B-5, B-6, SEMS 17001
 Vickers I-266-S, Visckers 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

TRIAX AGRA UTTO XL Premium Tractor covers the following tractor, transmission and hydraulic systems manufacturers

Argo S.p.A	Landini S.p.A (part of S.p.A),
Arvin Meritor	Laverda (part of Argo S.p.A)
Belarus	Leyland
Buhler	Link Belt
Clark	Mahindra
Class	Massey Ferguson
Dave Brown (part of CNH)	McCormick (part of Argo S.p.A.)
Dexron and Type A, Suffix A (Tractor)	Mitsubishi Pociain
Eaton Hydraulics	Renk
Ebru	Rockwell Transmissions
Fendt (non-Vario)	Same Deutz-Fahr
Fendt (Vario)	Sauer Sundstrand
Fort and Pegoraro (Part of Argo S.p.A)	Schluter
Gleaner (part of AGCO)	Steiger
Hurlimann	Steyr Daimler
Ingersoll Rand	Sundstrand Hydraulics (Piessey)
IMT	Taylor
International Hough (Dresser)	Universal
JCB	Ursus
John Deere	Valmet
Ji Case	Valpandana (part of S.p.A.)
KH Duetz	Vaitractores
Kioto	Versatile
Komatsu and Komatsu/Dresser	Vickers Hydraulics
Kubota	Volvo
Lamborghini	Yanmar
	Zetor

TRIAX AGRA UTTO XL Premium Tractor formulations have been field tested against OEM grade products and found to match or surpass the following OEM performance requirements.

John Deere Tractors
 Case IH Tractors
 Massey Ferguson Tractors
 New Holland Tractors
 Zetor

**UNMATCHED RELIABILITY,
 ECONOMY AND PROTECTION
 FOR OEM RECOMMENDED
 APPLICATIONS**

**CAN BE USED IN ALL NEW
 EQUIPMENT STILL UNDER OEM
 WARRANTY WITHOUT VOIDING IT**

YOUR NUMBER ONE CHOICE FOR AGRICULTURAL LUBRICANTS



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Small variations which do not affect performance are expected in manufacturing tolerance limits

Criteria Information	Test Method	Typical Value
Gravity, °API	ASTM D4052	0.869
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8747
Viscosity @ 40°C cSt	ASTM D445	55
Viscosity @ 100°C cSt	ASTM D445	9.4
Pour Point °C (°F)	ASTM D5950	-35°C (-31°F)
Flash Point °C (°F)	ASTM D92	215
Viscosity Index	ASTM D2270	154
Color	ASTM D1500	RED
Zinc, wt. %	ASTM D5185	0.00
Sulfur	ppm	2297
Phosphorous	ppm	429
Nitrogen	ppm	352
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	8/0
John Deere Q23 Foaming Sequence Approval	Sequence I	0/0
	Sequence II	0/0
	Sequence III	0/0
NF T60-229 Foaming tendency / stability (ml / ml)	Sequence I (24 C)	0/0
	Sequence I (93 C)	10/0
	Sequence I (24 C) after seq I	0/0
NF T60-129 Foaming tendency / stability (ml / ml)	Sequence I (24 C)	0/0
	Sequence I (93 C)	10/0
	Sequence I (24 C) after seq I	0/0
ISO 2160 Copper Corrosion (3H 100C)	ISO 2160	1A
NF M07-015 Copper Corrosion	NF M07-015	1A

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