

# **AGRA UTTO SUPREME** Full Synthetic Extreme Performance Tractor Hydraulic, Transmission and Wet Brake Fluid

### **REPLACES OF ALL AGRICULTURAL OEM FLUIDS**

### DESCRIPTION

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.

WET BRAKE PROTECTION - excellent film integrity assures smooth brake operation, without vibration and chatter.

### **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 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 Ferugson, 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.** 



69% LESS BRAKE WEAR than JDQ 94

wet brake specification requirements.

97% LESS LESS SLUDGE than conve-

netional HTF fluids.

PROTECTION LIKE NOTHING ELSE™

#### 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

- Outstanding thermal and oxidative stability
- Corret and flawless multi-disc clutch operation in severe service
- Outstanding seal protection dramatically improves hose flexibility, life, positive seal seating, reduces oil leaking if any compatible with all seal materials. Patented seal protection for all types of natural or synthetic seals found in modern construction and farm equipment.
- Exceptional copper component protection
- Exceptional detergency
- Excellent rust protection, filterability
- Virtually zero foaming
- Facilitates flawless hydraulic response and brake operation in nearly ALL operating conditions
- 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.
- Exceptiona anti-wear protection in all load conditions for a wide range of equipment.



# **AGRA UTTO SUPREME** Full Synthetic Extreme Performance Tractor Hydraulic, Transmission and Wet Brake Fluid

### **PRODUCT SPECIFICATIONS**

AGCO/Allis Chalmers Powerfluid 821XL AGC0 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, J20D, 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) Stieger 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 Supreme covers the following tractor, transmission and hydraulic systems manufacturers

Argo S.p.A Arvin Meritor Belarus Buhler Clark Class Dave Brown (part of CNH) Dexron and Type A, Suffix A (Tractor) Eaton Hydraulics Ebru Fendt (non-Vario) Fendt (Vario) Fort and Pegoraro (Part of Argo S.p.A) Gleaner (part of AGCO) Hurlimann Ingersoll Rand IMT International Hough (Dresser) JCB John Deere JI Case KH Duetz Kinto Komatsu and Komatsu/Dresser Kubota Lamborghini

Landini S.p.A (part of S.p.A). Laverda (part of Argo S.p.A) Leyland Link Belt Mahindra Massev Ferguson McCormick (part of Argo S.p.A.) Mitsubishi Pociain Renk **Rockwell Transmissions** Same Deutz-Fahr Sauer Sundstrand Schluter Steiger Stevr Daimier Sundstand Hydraulics (Piessey) Tavlor Universal Ursus Valmet Valpandana (part of S.p.A.) Vaitractores Versatile Vickers Hydraulics Volvo Yanmar 7etor

PROTECTION LIKE NOTHING ELSE™

TRIAX AGRA UTTO Supreme 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

### YOUR NUMBER ONE CHOICE FOR AGRICULTURAL LUBRICANTS



# **AGRA UTTO SUPREME** Full Synthetic Extreme Performance Tractor Hydraulic, Transmission and Wet Brake Fluid

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

Criteria Information	Test Method	Typical Value
Gravity, °API	ASTM D4052	35.50
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.846
Viscosity @ 40°C cSt	ASTM D445	53.5
Viscosity @ 100°C cSt	ASTM D445	9.4
Pour Point °C (°F)	ASTM D5950	-47°C (-52°F)
Flash Point °C (°F)	ASTM D92	215
Viscosity Index	ASTM D2270	176
Color	ASTM D1500	RED
Zinc, wt. %	ASTM D5185	1071
Sulfur	ppm	1520
Phosphorous	ppm	2646
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

### YOUR NUMBER ONE CHOICE FOR AGRICULTURAL LUBRICANTS

PROTECTION LIKE NOTHING

ELSE™



# **AGRA UTTO SUPREME** -ull Synthetic Extreme Performance Tractor

Full Synthetic Extreme Performance Tractor Hydraulic, Transmission and Wet Brake Fluid

### Sludge from regular HTF after 500 hours







## TRIAX Agra UTTO Supreme after 2000 hours





PROTECTION LIKE NOTHING

ELSE™

90% less sludge

# Gear scoring from regular tractor fluids on pinion and ring





### TRIAX Agra UTTO Supreme after 2000 hours 80% less gear wear



## YOUR NUMBER ONE CHOICE FOR AGRICULTURAL LUBRICANTS