

252 Primrose Plus

Universal Tractor Transmission Oil Universal Torque Converter Fluid

DESCRIPTION:

Primrose's Universal Tractor Transmission Oil (UTTO) is a superior universal tractor transmission oil (UTTO) to meet the requirements of the widest range of power equipment. UTTO No. 252, also known as Universal Torque Converter (UTC) fluid, is utilizable in virtually all tractor manufacturer's applications, including performance requirements for gears, pumps, differentials, final drives, bearings, wet brakes, and power takeoff (PTO) clutches. However, UTTO fluid is not just for use on the farm. It provides superior performance in power-driven off-highway equipment, construction machinery and industrial equipment. It is a superior multi-specification hydraulic/transmission fluid in the market.

COMPOSITION:

UTTO contains extreme pressure protection for maximum gear life and special friction modifiers for wet brakes and PTO clutches. It is also formulated to give superior water tolerance filterability. Its exceptionally high viscosity index gives it an extremely wide operating temperature range. Special seal conditioners maintain seals to minimize leakage. Also included for peak efficiency are:

- Pour Point Depressants
- Foam Suppressants
- Anti-Wear Additives
- Oxidation Inhibitors
- Corrosion Inhibitors
- Rust Inhibitors
- Detergent/Dispersant Additives
- Adhesive/Cohesive Additive

PERFORMANCE CHARACTERISTICS:

Primrose Plus No. 252 UTTO exceeds many equipment manufacturer's standards for wear, chatter, brake capacity, PTO and gear performance, and enhanced filterability as measured by the ASTM D8277 (wet filterability test). The following is a look at the various areas of performance in which this fluid excels:

Agricultural Performance: Primrose Plus No. 252 UTTO provides superior gear wear protection in many performance tests. In the Ford 3000 test, acceptable lubricants allow 2-4" of pitting on critical gear surfaces. UTTO Fluid provides exceptional protection in this test. It also provides superior protection of spiral bevel and sun gears in the John Deere Spiral Bevel/Final Drive Gear Wear Test. Brake chatter can mean greater difficulty in braking and premature failure. UTTO Fluid suppresses chatter without robbing brakes of needed capacity. Stopping distances are reduced by as much as 20%. When a tractor PTO-driven implement hits any large object in a field, the PTO should stall quickly enough to prevent the clutches from slipping and burning up. The test for PTO performance requires less than a 3 second stall time. UTTO Fluid provides a stall time of less than 1 second which reduces clutch wear and prolongs life.

Powershift Transmission Performance: As a multipurpose power transmission fluid, UTTO Fluid exceeds requirements for powershift transmissions and industrial torque converters in off-highway equipment. In addition, based on Caterpillar TO-2 friction test results, it exceeds the requirements for use in Caterpillar Powershift TO-2 transmissions.

Industrial Hydraulic Pump Performance: UTTO Fluid can also be used in industrial and mobile as well as agricultural equipment hydraulic systems. It meets and exceeds the requirements of many major hydraulic pump manufacturers. This remarkable product works exceptionally well in most any temperature for better startups and hydraulic response. It shows excellent anti-corrosion characteristics even in the presence of water and guards against hardening and shrinking or overswelling of seals. Exceptional anti-wear characteristics result in extended pump life and allow consistent hydraulic performance.



PRIMROSE PLUS

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Primrose Plus Universal Tractor Transmission Oil, Universal Torque Converter Fluid

USES:

Primrose Plus No. 252 Universal Tractor Transmission Oil is recommended for many equipment (agricultural, construction, industrial or mobile) requiring a hydraulic/transmission fluid. UTTO is recommended for John Deere Hydrostatic Drive components in agricultural equipment other than combines. No. 252 does not contain zinc. Store containers away from heat, sparks, open flame, low temperatures, oxidizing materials, etc. Grade 30 is recommended for temperature down to +5°F where Grade 10 may be used at temperatures as low as -22°F.

Suitable for use where the following active/obsolete application/fluid/specification is called for (meets, then exceeds):

Application/Fluid/Specification		
AGCO / Massey-Ferguson / White	Case / New Holland	Fiat-Hesston
POWERFLUID 821XL	J1C-143	Ford New Holland
M1127A & B	J1C-144	M2C53-B
M1129A	J1C-185	M2C77-A
M1135 (*1)	MS-1206	M2C78-A
M1139	MS-1207	M2C79-A
M1143	MAT3525	M2C134-D
Permatran III CMS1145	MAT3505/MS-1209/M2C159-B1/C1 MAT3540(*2)	John Deere
Q-1705	Caterpillar	J20C
Q-1766	TO-2	Kubota
Q-1802	Cincinatti Milacron	UDT
Q-1826	P-68	Minneapolis-Moline
Komatsu	Parker Denison	Plessy Sunstrand
KES 07.866	HF-0	Sperry Vickers
API	HF-1	I-286-S
GL-4	HF-2	M-2950-S
(*1) 10.5-11.6 cSt/100° C; "11" Filled Upon Request		Sundstrand Hydraulics
(*2) Zinc free specification		

TYPICAL SPECIFICATIONS:

UTTO Grade 30

Viscosity, cSt/100 ° C (ASTM D445)	9.3 - 12.5
Viscosity Index (ASTM D2270)	140 +
Flash, COC, °C (ASTM D92)	200
Color	Brown
Pour, min. (°F) (ASTM D97)	-40
Copper Corrosion (ASTM D130)	1a
Rust Test	No Rust