



“The First in Synthetics”

*Formulated for Improved
Heavy Duty Performance in Farm
And Industrial Equipment*

SYNTHETIC TRACTOR HYDRAULIC/TRANSMISSION OIL

ISO 46, SAE 30

PRODUCT DESCRIPTION

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil is the modern lubricant for modern farm and industrial equipment. Engineered specifically to meet the tough applications of heavy-duty, hydraulic-powered operations, AMSOIL Hydraulic/Transmission Oil exceeds the performance requirements of virtually every piece of modern machinery. With its unique blend of synthetic base stocks and advanced additive package, AMSOIL Hydraulic/Transmission Oil provides exceptional lubrication to reduce wear, resist heat, protect against rust and extend fluid and equipment service life.

Remains Stable at Temperature Extremes

AMSOIL Hydraulic/Transmission Oil operates over a wide range of temperatures. AMSOIL Hydraulic/Transmission Oil has a low volatility and high viscosity index to maintain its lubricity at high operating temperatures, and it flows at temperatures as low as -40°F (-40°C) for improved equipment operation and wear protection.

Provides Controlled Seal Swell

AMSOIL Hydraulic/Transmission Oil contains seal swell agents to maintain sealing integrity. It provides a slight seal swell to maintain a secure, tight fit.

Inhibits Rust and Corrosion

AMSOIL Hydraulic/Transmission Oil contains special rust and corrosion inhibitors to protect tractor components against rust and corrosion.

Inhibits Foaming

AMSOIL Hydraulic/Transmission Oil inhibits foaming. Foaming reduces hydraulic oil pressure and diminishes the lubricating protection provided by the oil. AMSOIL Hydraulic/Transmission Oil continues to resist foaming even when the reservoir level is low.

Suppresses Wet Brake Chatter

AMSOIL Hydraulic/Transmission Oil has friction modifier additives that effectively suppress wet brake

chatter. When the friction modifier additives are depleted in a conventional hydraulic/transmission oil, an imbalance of pressure occurs in the tractor's brake system and vibrating in the tractor can become uncontrollable. AMSOIL Hydraulic/Transmission Oil remains serviceable for up to three times longer than do conventional oils, and its friction additives remain intact for smooth, continuous tractor operation.

APPLICATION

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil exceeds the hydraulic and transmission fluid performance specifications of the following farm machinery.

Tractors

- Case International - MS-1207, HYTRAN
- Caterpillar - TO-2, TO-3
- Deutz-Allis - All
- Ford - M2C41-B, M2C134-D, M2C86-B
- Hesston/Fiat - All
- John Deere - Quatrol®, J20C, J20D, J14C
- Kubota, UDT - All
- Landini - All
- Massey-Ferguson - M1127-B, M1129-A, M1135 and M1141 (also known as Permatran III®)
- Steiger - All
- Versatile - All

Transmissions

- Detroit Diesel Allison Division - C-4 Hydraulic Systems
 - ABEX/Denison - HF-0, HF-1, HF-1A, HF-2, HF-2A
 - Cincinnati Milacron - P-70
 - Sundstrand - HMS-103
 - Sperry New Holland - 767166, 287530
 - Sundstrand Hydraulics, HMS-103
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TYPICAL TECHNICAL PROPERTIES

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil (ATH)

ISO Grade	46	Flash Point, °C (°F) (ASTM D-92)	230 (446)
SAE Viscosity	30	Fire Point, °C (°F) (ASTM D-92)	242 (468)
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	9.3	Pour Point, °C (°F) (ASTM D-92)	-40 (-40)
Kinematic Viscosity @ 40 C, cSt (ASTM D-445)	50.1	Four Ball Wear Test (ASTM D-4172/B)	
Viscosity Index (ASTM D-2270)	171	Scar, mm	0.35

PERFORMANCE DATA

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil exceeds the following rigorous performance requirements.

- Caterpillar Friction Retention Test - Pass
- Denison Pump Test (T5D Vane Pump, 46 Series Piston Pump) - Pass
- Deutz-Allis Friction Retention Test - Pass, Deutz-Allis Turbo Hydra-Matic Oxidation Test - Pass, Deutz-Allis Power Steering Pump Test - Pass
- Ford 7710 IPTO Stall Test - Pass, Ford 7710 Brake Capacity - Pass, Ford 7710 Brake Chatter Test - Pass
- John Deere JDQ-42 PTO Clutch (2000) Cycles - Pass, John Deere JDQ-40 Brake Capacity Test - Pass, John Deere JDQ-40 Brake Torque Variation (Chatter) - Pass, John Deere JDQ-73 Cold Soak @ -35°C - Pass, John Deere JDQ-74 Slow Cool @ -30°C - Pass, John Deere JDQ-74 Slow Cool @ -35°C - Pass
- Massey Ferguson MF-285 PTO Clutch - Pass, Massey Ferguson MF-285 Wet Brake Chatter and Torque Characteristics - Pass
- Plessey-Sundstrand Gear Pump Test - Pass

- Sundstrand Model 22-2132 Variable Displacement, Piston Pump - Pass
- Vickers 35VQ-25, Pump Test - Pass

INSTALLATION

AMSOIL Hydraulic/Transmission Oil is fully compatible with conventional hydraulic/transmission oils. To install AMSOIL Hydraulic/Transmission Oil in a hydraulic system, drain the existing hydraulic/transmission oil, change filters and install AMSOIL Hydraulic/Transmission Oil.

PRODUCT WARRANTY

AMSOIL INC. warrants that the use of its lubricants will not cause mechanical damage to any mechanically sound equipment when AMSOIL INC. products are used in full compliance with the company's recommendations.

AMSOIL products and Dealership Information are Available from:

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