



The First in Synthetics®

Synthetic Tractor Hydraulic/Transmission Oil

SAE 5W-30

*Formulated for All-Weather Performance
in Farm and Commercial Equipment*

PRODUCT DESCRIPTION

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil (ATH) is an all-weather Universal Tractor Transmission Oil (UTTO) engineered to meet the tough demands of heavy-duty, hydraulic-powered farm and commercial equipment. Its unique formulation of synthetic base stocks and additives effectively reduces wear, resists heat, protects against rust and extends fluid and equipment service life. Synthetic Tractor Hydraulic/Transmission Oil is recommended for extended oil drains based on oil analysis.

Excellent Protection in Temperature Extremes

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil operates over a wide range of temperatures. It has a high viscosity index to maintain its lubricity at high operating temperatures, and it flows at temperatures as low as -51°F (-46°C) for improved equipment operation and wear protection at low temperatures. Synthetic Tractor Hydraulic/Transmission Oil exceeds the most demanding all-weather specifications of both Case New Holland 3525 and 3526 (formerly Ford New Holland FNHA-2-C-200 & 2-C-201) and John Deere J20C & J20D, eliminating the need for seasonal oil changes.

Smooth Brake Operation

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil is formulated with durable friction modifier additives that effectively suppress wet brake chatter. Unlike conventional oils that can break down and cause vibration, AMSOIL Synthetic Tractor Hydraulic/Transmission Oil provides continuous frictional stability for long-term smooth brake operation.



Feature: Multi-Viscosity

Benefits: Excellent cold and hot weather protection, no seasonal change outs

Feature: Universal Applications

Benefits: Inventory consolidation, no mis-applications

Feature: Stable Friction Modifier Additives

Benefits: Correct and decisive multi-disc/clutch operation, excellent control over brake chatter, smooth operation, extended oil and equipment life

Feature: Anti-Foam Additives

Benefits: Rapid air release, cooler operation, smooth brake operation, control over fade and spongy hydraulic response

Feature: Oxidation Inhibitors

Benefits: Excellent resistance to oil degradation at high temperatures, extended lubricant and equipment life

Feature: Seal and Hose Conditioners

Benefits: Compatible with all seal materials, seal and hose flexibility, positive seal seating, reduced oil leaking, extended seal and hose life, fewer blown hoses

Feature: Superior Anti-Wear Additives

Benefits: Scoring and gear wear protection under all load conditions, extended equipment life even in severe conditions, increased pump and valve life, may be used in final drives calling for a UTTO



TYPICAL TECHNICAL PROPERTIES

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil (ATH)

SAE Viscosity	5W-30
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	10.1
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	51.0
Viscosity Index (ASTM D-2270)	189
Flash Point °C (°F) (ASTM D-92)	244 (471)
Fire Point °C (°F) (ASTM D-92)	264 (507)
Pour Point °C (°F) (ASTM D-97)	-46 (-51)
Four-Ball Wear Test (ASTM D-4172: 40 kg, 75°C, 1200 rpm, 1 hr.), Scar, mm	0.35
Cold Crank Simulator -30°C (ASTM D-5293)	5,121
Brookfield Viscosity (ASTM D-2683) @ -40°C	17,500

APPLICATIONS

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil is recommended for 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, the following:

- **Farm tractors and equipment**
- **Fork lift trucks**
- **Pavement rollers**
- **Off road equipment:**
 - Loaders
 - Backhoes
 - Bulldozers
 - Tractors
 - Logging equipment
- **Ditchers**
- **Concrete formers**
- **Lawn tractor hydrostatic transmissions**
- **Golf course mower hydrostatic systems**
- **4x4 ATV models with wet brake differentials**

SPECIFICATIONS

AMSOIL Hydraulic/Transmission Oil is recommended for applications that require any of the listed specifications:

- **ABEX/Dennison** – Hyd. Fluid HF-0 All pumps, HF-2, HF-1
- **AGCO/Duetz-Allis/Allis-Chalmers** – Power Fluid 821 XL272843, 257541, 246634
- **AGCO White Farm (Oliver)** – Q-1826, Q-1802, Q-1766B, Q-1722, Q-1705, Type 55
- **Allison** – C-4, C-3, C-2
- **API GL-4**
- **Case New Holland (CNH)** – MAT 3505 (MS 1209), MS-1207 (Hy-Tran® Plus), 3506 (MS 1210) (TCH Fluid JIC145), 3509 (MS 1230, M2C48-C) Poclain Equip. high-pressure systems, 3525 (FNHA-2-C-201.00, M2C134D), 3526 (FNHA-2-C 200.00 winter grade), 3510 (MS-1317, GL-4), B-6, MS-1206 (PTF), MS-1205 (TFD-II), MS-1204 (TFD), JIC-185, JIC-144, JIC-143, B-5, M2C86-B & C, M2C53-A, M2C41-B
- **Caterpillar** – TO-2

- **Clark** – TA 12, TA 18, HR 500, HR 600
- **Dresser CED** – Trans/Hyd Fluid
- **Deutz Fahr**
- **Fendt** (Non-Vario)
- **Ford** – ESN M2C86B, M2C86C
- **Hesston Fiat** – Oilofiat Tutela Multi-F, AF-87
- **John Deere** – J20C, J20D (winter grade), J20A/B, J14B, JD 303, J21A
- **Komatsu**
- **Kubota** – UDT
- **Landini** – Tractor II Hyd. Fluid
- **Massey-Ferguson** – M-1141 (Permatran®III), M-1135, M1143, M1145, M1129-A, M-1127-A/B, M-1110
- **Renault** – Renault Transmissions
- **Steiger** – Hyd/Trans SEMS 17001
- **Sundstrand** – Hydrostatic Transmission Fluid
- **VCE** – WB-101
- **Versatile** – Recommended for use in Valmet, Yanmar, New idea Power Units, Leyland, Belarus, Fiat M2C134-D FNHA-2-C-201.00, Spec 24M, Spec 23M
- **ZF** – TE-ML 03E, 05F, 06K, 17E

INSTALLATION

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

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil is recommended for, but not limited to, the replacement of the following oils:

ARCO Tractor Fluid; BP Tractran UTH; Case Hytran; Chevron Torque Fluid; Chevron Tractor Hydraulic Fluid; Conoco Power-Tran III Fluid; Conoco Farm Master; Gulf Universal Tractor Fluid; John Deere Hy-Gard; Kendall HYKEN 052; Kubota UDT; Lubrication Engineers 7500; Lubriplate UTF C-4; New Holland, Ford M2C134-D & FNHA-2-C-200.00 & 201; Mobilfluid 300, 350 and 424; Pennzoil HYDRA-TRANS; Phillips HG Fluid; Royal Purple SYN-TRACTOR III WG; Shell Donax TD

AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

