



# Tractor Hydraulic Fluid

## High-performance transmission hydraulic fluid

### Features & benefits

- Superior load-carrying and wear protection
- Excellent foam resistant properties
- Exceptional yellow-metal protection
- Shear stable
- Excellent frictional characteristics
- Superior fluidity at low temperatures
- Three formulations to suit your equipment's needs



### Typical results

Test Method	THF	THF Premium	THF (W)
<b>VISCOSITY</b> (D445) cSt @ 40°C cSt @ 100°C	59.4 9.5	46.4 9.5	38.8 7.5
<b>VISCOSITY INDEX</b> (D2270)	141	196	165
<b>ASTM COLOUR</b> (D1500)	2.0	2.0	2.0
<b>DENSITY @ 15°C</b> (D4052), kg/L	0.86	0.86	0.85
<b>POUR POINT</b> (D97), °C	-42	-64	-50
<b>FLASH POINT</b> (D93), °C	212	201	185
<b>KRL SHEAR</b> after 20 hrs viscosity @ 100 °C (D445), cSt	8.8	7.8	7.0
<b>BROOKFIELD</b> (D2983) cP @ -20°C cP @ -35°C cP @ -40°C	3,820 28,850 71,600	1,365 - 18,500	- - 16,800
<b>FOAM</b> (D892) (Tendency mL / Stability mL) SEQUENCE I (mL/mL) SEQUENCE II (mL/mL) SEQUENCE III (mL/mL)	0/0 10/0 0/0	0/0 30/0 0/0	0/0 30/0 0/0

### Sizes & order codes

Size	THF	THF Premium	THF (W)
3.78 L (1 US Gal)	-	F0020426	-
18.9 L (5 US gal)	F0079440	F0086140	F0079340
205 L (54.2 US gal)	F0060850	F0015550	-
1000 L (264 US gal)	F0060860	F0020460	-
1000 L (264 US gal) Bulk Tote	F0108301	F0109101	-
Bulk	B0060801	B0020401	B0060001

**Irving Tractor Hydraulic Fluids** are Universal Tractor Transmission Oils (UTTO) formulated for transmissions, final drives, power take-off, wet brakes, hydraulics, clutches, and power steering systems and designed for use in agricultural, construction, and mining equipment that uses a common fluid reservoir.

**Irving Tractor Hydraulic Fluid** is available in three different grades:

- **THF** is made with high-quality group II base oils and is recommended for summer operation, but also suitable for year-round use where temperatures are above -25°C.
- **THF Premium** is fully synthetic and a genuine "all-season" fluid suitable in hot and cold temperatures.
- **THF (W) Winter** is made with high-quality group II/II+ base oils and formulated for extra protection in the cold winter months. Meeting the requirements of J20D.

**Irving Tractor Hydraulic Fluids** act as a universal hydraulic oil that protects against wear and prevents bronze transfer in piston pumps to prevent loss of efficiency.

**Irving Tractor Hydraulic Fluids'** frictional characteristics prevent stick/slip problems and reduce brake noise/chatter. They also have superior fluidity at low temperatures with pour points as low as -42°C (THF), -64°C (THF Premium) and -50°C (THF W).

**Irving Tractor Hydraulic Fluids** are not to be used in STOU engine applications.

Please use the following two pages for current and older specifications.

**Always consult your owner's manual for verification of fluid type and grade!**

Supporting data available to demonstrate acceptable performance. Check with Sales Associate for the latest product approvals.

Please note these are typical performance indicators and can change without notice.

This data sheet replaces previous versions prior to January 7, 2025.

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### Specifications

✓ Meets requirements ■ Suitable for use

Specifications	THF	THF Premium	THF (W)
23M & 24M	✓	✓	-
AGCO 821XL	✓	✓	-
API GL-4	✓	✓	✓
CNH MAT 3505, 3525	✓	✓	-
CHN MAT 3540 <sup>1</sup>	■	■	-
Deutz-Allis Power Fluid 821XL, 272843	✓	✓	-
Dresser	✓	✓	-
Fiat Hesston AF-87	✓	✓	-
Ford ESN-M2C134-D, Ford ESN-M2C143-A	✓	✓	-
Industry of Machinery and Tractors (IMT)	✓	✓	-
International Harvester Hy-Tran B-6	✓	✓	-
Japanese Construction Mechanization Association (JCMAS), HK P-041	-	■	■
JI Case MS-145 (TFD Fluid)	✓	✓	-
JI Case MS-1209 (HyTran Ultra or MultiTran) <sup>1</sup>	■	■	-
JI Case MS-1210	■	■	✓
JI Case MS-1216	■	■	■
JI Case MS-1230 (Poclain Equipment)	-	■	-
John Deere J20C	✓	✓	-
John Deere J20D	-	✓	✓
Kioti	✓	✓	-
Komatsu KES 07.866, AXO80, Komatsu-Dresser B06.0002	✓	✓	-
Kubota UDT	✓	✓	-
Kubota Super UDT & UDT2	-	✓	-
Landini	✓	✓	-
MF M1141, M1143, M1145 (UTTO Only)	✓	✓	-
Parker (Denison UTTO) HF-0, HF-1 & HF-2 (except demulsibility)	✓	✓	-
Quatrol	✓	✓	-
Renk-Doromat 87.3 & 874A/B	✓	✓	-
Sauer Sunstrand/Danfoss & Hydrostatic Transmission Fluid	✓	✓	-
Steiger HTF (SEMS 17001)	✓	✓	-
Valmet	✓	✓	-
Valtra G2-08	✓	✓	-
Valtra G2-B10	-	✓	-
Versatile Gear & Hyd-Trans Fluid	✓	✓	-
Vickers 35VQ25	✓	✓	✓
Volvo WB101 (97303), except for motor grader rear axle (VCE 1273.03)	✓	✓	-
Wet brake applications	✓	✓	✓
White Farm (Oliver) Q-1826	✓	✓	-
Yanmar	✓	✓	-

<sup>1</sup> THF and THF Premium are zinc-based chemistry, unlike the zinc-free CHN MAT 3540 and JI Case MS-1209. Irving Blending & Packaging has field trial demonstrations and datasets that demonstrate acceptable performance for both THF and THF Premium in these applications. Do not mix with zinc-free fluids, a complete flush and change should be completed when switching fluids.

**Always consult your owner's manual for verification of fluid type and grade!**

Supporting data available to demonstrate acceptable performance. Check with Sales Associate for the latest product approvals.

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## Older Specifications (Obsolete)

✓ Meets requirements

Specifications	THF	THF Premium	THF (W)
Allison C-2, C-3 and C-4	✓	✓	-
Caterpillar TO-2	✓	✓	✓
Deutz-Allis Power Fluid 25741, 25743, 246634	✓	✓	-
Ford FNHA-2-C-200 & 201	✓	✓	-
Ford ESN-M2C-41, 41A & B, & 43	✓	✓	-
Ford ESN-M2C48-B & C	✓	✓	-
Ford ESN-M2C53-A & B	✓	✓	-
Ford ESN-M2C77-A, 78A, 79A	✓	✓	-
Ford ESN-M2C86 A-C	✓	✓	-
Ford ESN-M2C92-A	✓	✓	-
Ford ESN-M2C134-A-C	✓	✓	-
Ford ESN-M2C142-A	✓	✓	-
Ford New Holland M4864-A & B	✓	✓	-
JI Case Case-O-Matic Type A	✓	✓	-
JI Case MS-143, 144 (TFD Fluid)	✓	✓	-
JI Case MS-185 (TFD Fluid)	✓	✓	-
JI Case MS-1204-1205 (Powergard PFT)	✓	✓	-
JI Case MS-1206 (Powergard PFT)	✓	✓	-
JI Case MS-1207	✓	✓	-
John Deere J20A, J20B, J14A-C & J21A	✓	✓	-
MF 1127, 1127 A&B	✓	✓	-
MF M1110	✓	✓	-
MF M1129, M1129A (Permatran)	✓	✓	-
MF M1135 (Permatran III) (UTTO Only)	✓	✓	-
MF M1138 (UTTO Only)	✓	✓	-
MF M1139 (UTTO Only)	✓	✓	-
Sperry Vickers/Eaton I-286S Industrial Hydraulics	✓	✓	-
Sperry Vickers/Eaton M2950S Mobil Hydraulics	✓	✓	-
White Farm (Oliver) 55, Q-1705, Q-1722, Q-1766, Q-1766B, Q-1802	✓	✓	-

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