



Tractor Hydraulic High Performance 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)
ASTM COLOUR (D1500)	2.0	2.0	2.0
DENSITY @ 15°C (D4052), (kg/L)	0.86	0.86	0.85
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	59.4 9.5	46.4 9.5	38.8 7.5
VISCOSITY INDEX (D2270)	141	196	165
POUR POINT (D97), (°C)	-42	-64	-50
FLASH POINT (D93), (°C)	212	201	185
KRL SHEAR TEST after 20 hrs VISCOSITY cSt @ 100°C (D445)	8.8	7.8	7.0
BROOKFIELD VISCOSITY, (D2983) cP @ -20°C @ -35°C @ -40°C	3,820 28,850 71,600	1,365 - 18,500	- - 16,800
FOAM TEST (D892) (Tendency mL / Stability mL)			
Sequence I	0/0	0/0	0/0
Sequence II	10/0	30/0	30/0
Sequence III	0/0	0/0	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 US Gal	F0060850	F0015550	-
1000 L / 264 US Gal	F0060860	F0020460	-
1000L / 264 US Gal Bulk Tote	F0108301	F0109101	-
BULK	B0060801	B0020401	B0060001

Irving Tractor Hydraulic Fluids are Universal Tractor Transmission Oils (UTTO) that are formulated for use in transmissions, final drives, power take-off, wet brakes, hydraulics, clutches, and power steering systems. 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 recommend for summer operation, but also suitable for year round use where temperatures are above -25°C.
- **THF Premium** is full synthetic and a true "all season" fluid that is suitable in both hot and cold temperatures.
- **THF (W)** 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 Fluid's 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.



www.irvingoil.com/lubricants
1.800.574.5823

Always consult your owner's manual for verification of fluid type and grade!
Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals.

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

This data sheet replaces previous versions prior to July 5, 2022.

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Tractor Hydraulic High Performance Fluid



Specifications

✓ Meets Requirements

Specifications	THF	THF Premium	THF (W)
AGCO 821XL	✓	✓	-
Allison C2, C3 & C4	✓	✓	-
API GL-4	✓	✓	✓
Caterpillar TO-2	✓	✓	✓
CNH MAT 3505	✓	✓	-
CNH MAT 3510	✓	✓	-
CNH MAT 3525	✓	✓	-
Dennison HF-0, HF-1, HF-2 (except demulsibility)	✓	✓	-
Deutz-Allis Power Fluid 821XL, 25741, 25743, 246634, 272843	✓	✓	-
Dresser	✓	✓	-
Fiat Heston AF-87	✓	✓	-
Ford FNHA-2-C-200 & 201	✓	✓	-
Ford ESN-M2C-41, 41A & B, & 43	✓	✓	-
Ford ESN-M2C-48 B & C	✓	✓	-
Ford ESN-M2C53 A & B	✓	✓	-
Ford ESN-M2C-77A, 78A, 79A	✓	✓	-
Ford ESN-M2C-86 A-C	✓	✓	-
Ford ESN-M2C-92A	✓	✓	-
Ford ESN-M2C134A-D (NH-410B)	✓	✓	-
Ford ESN-M2C-142A & 143	✓	✓	-
Ford ESN-M2C-159 A-C	✓	✓	-
Ford M2CA-C	✓	✓	-
Ford New Holland M4864A & B	✓	✓	-
Industry of Machinery and Tractors (IMT)	✓	✓	-
International Harvester Hy-Tran B-6	✓	✓	-
Japanese Construction Mechanization Association (JCMAS), HK P-041 & P-042	✓	✓	-
J.I. Case Case-O-Matic Type A	✓	✓	-
J.I. Case MS-143, 144, 145 International Famall (TCH Fluid)	✓	✓	-
J.I. Case MS-185 (TFD Fluid)	✓	✓	-
J.I. Case MS-1204-1205 (Powergard PFT)	✓	✓	-
J.I. Case MS-1206 (Powergard PFT)	✓	✓	-
J.I. Case MS-1207	✓	✓	-
J.I. Case MS-1209 (HyTran Ultra or MultiTran)	✓	✓	-
J.I. Case MS-1210	✓	✓	✓
J.I. Case MS-1216	✓	✓	-
J.I. Case MS-1230 (Poclairn Equipment)	✓	✓	-
J.I. Case MS-1317	✓	✓	-

Specifications	THF	THF Premium	THF (W)
John Deere J20A, J20B, J20C, J14A-C & J21A	✓	✓	-
John Deere J20D	-	✓	✓
Kioti	✓	✓	-
Komatsu KES 07.866, AXO80	✓	✓	-
Komatsu-Dresser B06.0002	✓	✓	-
Kubota UDT	✓	✓	-
Kubota Super UDT & UDT2	-	✓	-
Landini	✓	✓	-
MF M1103A & B	✓	✓	-
MF 1127, 1127 A&B	✓	✓	-
MF M1110	✓	✓	-
MF M1129, M1129A (Permatran)	✓	✓	-
MF M1135 (Permatran III)	✓	✓	-
MF M1138	✓	✓	-
MF M1139 (UTTO Only)	✓	✓	-
MF M1141	-	✓	-
MF M1143	✓	✓	-
MF M1144 (UTTO Only)	✓	✓	-
MF M1145	✓	✓	-
Parker (Denison UTTO) HF-0, HF-1 & HF-2	✓	✓	-
Quatrol	✓	✓	-
Renk-Doromat 87.3 & 874A/B	✓	✓	-
Sauer Sunstrand/Danfoss & Hydro Static Trans Fluid	✓	✓	-
Sperry Vickers/Eaton I-286S Industrial Hydraulics	✓	✓	-
Sperry Vickers/Eaton M2950S Mobil Hydraulics	✓	✓	-
Steiger HTF (SEMS 17001)	✓	✓	-
Valmet	✓	✓	-
Valtractores	✓	✓	-
Valtra G2-08 & G2-B10	✓	✓	-
Versatile Gear & HydrTrans Fluid	✓	✓	-
Vickers 35VQ25	✓	✓	✓
Volvo WB101 (VCE97303), except for motor grader rear axle	✓	✓	-
Volvo VCE 1273.03	✓	✓	-
Wet brake applications	✓	✓	-
White/Minneapolis-Moline/Oliver/ New Idea 55, 5J, Q-1705, Q-1722, Q-1766, Q-1766B, Q-1802, Q-1826	✓	✓	-
Yanmar	✓	✓	-
23M & 24M	✓	✓	-

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