



Product Bulletin

BRAD PENN[®] TRACTOR FLUIDS

BRAD PENN[®] Universal Tractor Fluid (UTF) #7352 is a premium multi-viscosity hydraulic /common sump fluid designed with high-quality paraffinic base oil and a performance proven additive system. It is formulated to meet /exceed the requirements of agricultural, construction and forest products equipment such as:

John Deere, Case IH, Massey-Ferguson, Ford New Holland, Kubota, Duetz-Allis, Versatile, Hesston Fiat, Oliver, White Farms, Steiger, Landini, International Harvester, McCormick Farmall, Minneapolis-Moline, New Idea, Allis Chalmers, Volvo CE, Caterpillar (TO-2), Dresser Construction, API GL-4, Arvin Meritor, Belarus, Buhler, Clark, Claas, MAT 3505, David Brown, Denison HF-0, HF-1 & HF-2, Type A, Suffix A (tractor), Grove Manufacturing Hydraulic Fluid, Eaton Hydraulics, Fendt, Ford ESN-M2C86-B and ESN-M2C86-C, Gleaner, Ingersoll Rand,

International Hough (Dresser), JCB, JI Case, Kioto, Komatsu and Komatsu/Dresser, Kubota, Leyland, Link Belt, Mahindra, Mitsubishi Poclain, Renk, Rockwell Transmissions, Sauer Sundstrand, Steiger, Sundstrand Hydraulics (Plessey), Taylor, Universal, Ursus, Valmet, Vickers Hydraulics, Volvo, Yanmar, Zetor and others where a single fluid is used to lubricate hydrostatic drives, mechanical (manual) transmissions, wet brakes, gear drives and axles, power take-offs (PTO) and power steering mechanisms.

BRAD PENN[®] Universal Tractor Fluid (UTF) #7352 is a universal lubricant for today's modern tractors, as well as yesterday's workhorses. It will provide all year protection, showing both outstanding low temperature performance as well as excellent resistance to oxidation breakdown caused by heat. **BRAD PENN[®] Universal Tractor Fluid (UTF)** will prevent brake chatter with controlled frictional properties and provide exceptional anti-wear protection. It provides excellent rust and corrosion protection as well as outstanding system cleanliness. **BRAD PENN[®] Universal Tractor Fluid (UTF)** is not suitable for use in applications requiring STOU (Super Tractor Oil Universal) oils.

BRAD PENN[®] Low Temperature Tractor Hydraulic / Transmission Fluid #7351 is a premium multi-viscosity hydraulic oil formulated with high-quality paraffinic base oils and the same premium performance package as **BRAD PENN[®] Universal Tractor Fluid**. However, this product is specifically recommended for equipment having a lower viscosity specification and for extreme cold climate service in the same applications as BRAD PENN[®] Universal Tractor Fluid. **BRAD PENN[®] Low Temperature Tractor Hydraulic / Transmission Fluid** meets the performance requirements of major farm tractor manufacturers and provides excellent gear life and wet brake noise suppression in extreme cold climates. It is formulated with high viscosity index (HVI) base oils to ensure excellent fluidity and cold temperature viscometrics.

The **BRAD PENN[®] Tractor Fluids** provide excellent rust and corrosion protection and prevent oxidation for sludge control. If consolidation of lubricants is necessary and/or desired, The **BRAD PENN[®] Tractor Fluids** can be used in most antiwear hydraulic oil applications when a fluid of ISO VG 46 to ISO VG 68 viscosity is recommended. In addition, the **BRAD PENN[®] Tractor Fluids** meet the requirements of an API GL-4 gear lubricant.



AMERICAN REFINING GROUP, INC.

77 North Kendall Avenue • Bradford, Pennsylvania • 16701
Phone: 814.368.1200 • Fax 814.368.1219 • www.amref.com • ISO 9001:2008

May 2012

BRAD PENN[®] Tractor Fluids – Typical Properties

SAE Grade		10W-20	5W-20
Product Code	Test Method	7352	7351
API Service		GL-4	GL-4
Gravity, API	ASTM D-4052	30.1	33.0
Density, lbs/gal (g/L)	Calculated	7.29 (875)	7.16 (858)
Viscosity, cSt @ 40°C	ASTM D-445	58.2	32.7
Viscosity, cSt @ 100°C	ASTM D-445	9.3	7.6
Viscosity Index	ASTM D-2270	141	208
Brookfield Viscosity, cP @ -18 °C	ASTM D-2983	2,900	800
Brookfield Viscosity	ASTM D-2983	cP @ -34.4°C 60,000	cP @ -40°C 13,000
Pour Point, °F (°C)	ASTM D-5949	-38.2 (-39)	-54.4 (-48)
Flash Point, COC, °F (°C)	ASTM D-92	400 (204)	375 (191)
Color	ASTM D-1500	2.5	1.5
KF Moisture, ppm (Max.)	ASTM D-6304	200	200

Always refer to the equipment owners/operators manual or OEM equipment lubrication recommendations for specific fluid type and viscosity.

BRAD PENN[®] Tractor Fluids are fit for use in the following:

TRACTOR OEMs

AGCO:

AGCO-Allis

Power Fluid 821XL

ACGO-Chalmers

Power Fluid 821

Deutz-Allis

272843, 257541, 246634

Massey-Ferguson

M-1135, M-1141, M-1145,

M-1143, M-1129A, M-1110,

M-1127A, M-1127B

White Farm

Q-1826

Minneapolis-Moline

Q-1766, Q-1722, Q-1766B

Oliver

Q-1705

New Idea

Q-1802, Type 55

ZF

TE-ML 03E, TE-ML 03F,

TE-ML 05F, 05E, TE-ML 06K

CNH Global N.V.:

Case International

MS-1206, MS 1207 (Hy-Tran Plus)

CNH MS-1209*

Case-IH

MS-1210 / JIC 145 (TCH)

JI Case

JIC 143 / 144

International Farmall

MS-1204, JIC 185

International Harvester

B-5, B-6

Steiger

SEMS 17001

New Holland (Fiat)

Ford and New Holland

MAT 3525, FNHA-2-C-201

MAT 3526

FNHA-2-C-200

FNHA-2-C-200A

ESN-M2C41-B, M2C43,

M2C48-A, M2C48-B,

M2C53-A, M2C53-B, M2C92-A,

M2C134-A, B, C, D (Current)

35VQ25, M-2952-S (Vickers)

Kubota

UDT

Sperry-Vickers

I-286-S (Vickers)

M-2950-S (Vickers)

Versatile

Specification 23M or 24M

Hesston-Fiat (tractors only):

AF-87, Multi-F, Multi-G

Volvo CE

WB 101

John Deere

JDM J20C (Hygard)

JDM J20D (#7351 only)

JDM J20A, J20B, J14B, J14C,

JDM J21A, JDT 303, Quatrol

Komatsu Dresser

B-06-0001, B-06-0002

Renk Doromat

873, 874 A, 874 B

TRANSMISSION OEMs:

Caterpillar TO-2

Allison C-2, C-3

*Consult Tech Services