



# Product Bulletin

## LOW TEMPERATURE TRACTOR HYDRAULIC / TRANSMISSION FLUID

**BRAD PENN<sup>®</sup> Low Temperature Tractor Hydraulic / Transmission Fluid** is a premium multi-viscosity hydraulic oil formulated with high-quality paraffinic base oils and the same premium performance package as BRAD PENN<sup>®</sup> Universal Tractor Fluid. However, this product is specifically designed to function in extreme low temperature conditions as a hydraulic/transmission oil in a wide variety of agricultural and industrial/construction equipment requiring a single lubricant for hydraulic systems, transmissions, final drives, wet brakes, and power-take-off (PTO) clutches.

**BRAD PENN<sup>®</sup> 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. This product also provides excellent rust and corrosion protection and prevents oxidation for sludge control. Due to its excellent antiwear and frictional characteristics, this product can be used in most hydraulic oil applications when a fluid of its viscosity is recommended.

**BRAD PENN<sup>®</sup> Low Temperature Tractor Hydraulic / Transmission Fluid** meets the requirements of an API GL-4 gear lubricant. It is recommended for equipment having a lower viscosity specification and for extreme cold climate service in the same applications as BRAD PENN<sup>®</sup> Universal Tractor Fluid. Specifically, this product can be recommended for the following performance applications:

### TRACTOR OEMs:

#### J.I. Case:

MS-1210/JIC 145 (TCH)

#### Ford New Holland:

M2C48C

M2C41B

#### Massey-Ferguson:

M-1129A

M-1127A/B

M-1110

#### John Deere:

J20D

J20B

J14C

J21A

### TRANSMISSION OEMs:

#### Caterpillar:

TO-2

#### Allison:

Allison C-4

Allison Type C-3 Fluid

### HYDRAULIC OEMs:

#### Denison:

HF-0, HF-1, HF-2

#### Vickers:

M-2950-S, I-286-S



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October 2011

**BRAD PENN<sup>®</sup>**  
**Low Temperature Tractor Hydraulic/Transmission Fluid Typical Properties**

API Service	<b>Test Method</b>	GL-4
Gravity, API	ASTM D-4052	33.0
Density, lbs/gal (g/L)	Calculated	7.16 (858)
Viscosity, cSt @ 40°C	ASTM D-445	32.7
Viscosity, cSt @ 100°C	ASTM D-445	7.6
Viscosity, SUS @ 100°F	ASTM D-2161	150
Viscosity, SUS @ 210°F	ASTM D-2161	51.1
Viscosity Index	ASTM D-2270	208
Brookfield Viscosity @ -18°C, cP	ASTM D-2983	800
Brookfield Viscosity @ -40°C, cP	ASTM D-2983	13,000
Pour Point, °F (°C)	ASTM D-5949	-54.4 (-48)
Flash Point, °F (°C)	ASTM D-92	375 (191)
Color	ASTM D-1500	1.5
<b>Product Code</b>		<b>7351</b>