



Castorine Tena Film TDH Fluid (Universal Tractor Multi-Purpose Fluid)

CASTORINE TENA-FILM TDH FLUID is formulated as a special transmission, differential and hydraulic oil for use in all late model tractors – farm and industrial. It is designed to reduce inventories and costs, and prevent misapplication of standard oils.

PROPERTIES:

CASTORINE TENA-FILM TDH FLUID is scientifically compounded to meet and exceed tractor manufacturers' requirements. It is highly fortified against oxidation and does not show any significant deterioration throughout its service life. It provides extreme pressure additives to give excellent load carrying ability and protection against wear under heavy duty and shock loads.

TDH FLUID is inhibited against foaming and provides rust protection to susceptible parts. It has an extremely low pour point (-45° F.) which provides mobility and prompt lubrication at low temperatures. It is also extremely stable under high operating temperatures (150°F. to 250° F.) and will satisfy those requirements which call for a low 10W-30 hydraulic oil.

TDH FLUID is compatible with common seal materials such as neoprene, Buna N & 5 rubber compounds, natural rubber, Butyl rubber, Silicone seal and Viton.

TDH FLUID meets all the requirements of John Deere spec J-148, commonly referred to as JDT-303 Fluid, or Hygard, and those of all weather Hydrostatic Fluid (JDM-21A). One fluid must meet the severe requirements of wet brakes, transmission, differential and hydraulic application. It meets or exceeds all of the following specifications.

TRACTOR	OIL SPECIFICATION & TRADE NAME
Allison	C-3
Allis Chalmers	Power Fluid 821 Power Fluid 322
John Deere	J-148, formerly 303 Fluid, Hygard J-20A, J-21A
J.I. Case	143 TFD 144 145 TCH 185 TFD MS-1205 TFD-11
Denison	HF – 2
Ford Tractor	ESN=M2C-41A-Automatic Trans. & Hydraulic ESN-M2C-48A – Hydraulic Oil Only

Baum's Castorine Co., Inc.
Manufacturing Chemists Since 1879

TRACTOR**OIL SPECIFICATION & TRADE NAME**

Ford Tractor (con't)	ESN-M2C-53A Differential and Wet Brake Lube ESN-m2C-77A ESN-M2C-78A ESN-M2C079A ESN-M2C085A ESN-M2C-86A ESN-M2C-92A ESN-M2C-134A – <i>New Spec. Replaces:</i> ESN0M2C053A, ESN-M2C-78A & ESN-M2C-79A
International	B-6 Hy Trans. Fluid
Massey-Ferguson	M-1127-Transmission & Hydraulic Fluid M-1129A M-1138
Oliver	S-3727-B
Steiger	Hydraulic-Transmission Fluid
White	Q-1722-Universal Hydraulic Transmission Fluid (Includes Minneapolis-Moline and Oliver Equip.) Q-1766 UHTF Type 55

TYPICAL PHYSICAL PROPERTIES

Viscosity SSU @ 100° F.	291.8
Viscosity SSU @ 210° F.	57.6
Viscosity CP@ 0° F. (Brookfield)	2600
Viscosity Index (ASTM D-2270)	143
Viscosity @210° F. after Shear Test	
(30 min.) SSU	51.05
Flash Point ° F.	405
Fire Point ° F.	435
Pour Point° F.	-45° F.
Timken OK Load, LB	40
Four Ball Weat (2hrs., 72°F., 700RPM, 40 kg.) Scar DIA., mm	0.33/0.35
Turbine Oil Rust Test (ASTM 0-6658)	PASS
Copper Strip Corrosion	
2 HRS @ 212° F.	PASS
3 HRS @ 300° F.	PASS
Foaming ASTM D-892	PASS
Falex Pin Corrosion	PASS
Oxidation Test (100 hrs., @ 300° F.)	
Evaporation Loss, %	1.5
VIS @ 210° F., in grease	1.3
Separation/Sludge	NONE
Vickers Pump Test (100 hrs. @ 175° F.)	
Ring wt. loss, mg.	22
Vane wt. loss, mg.	5
John Deere Brake Chatter	PASS
J.I. Case Four Square Gear Test	PASS
John Deere 1200 Hour Transmission Test	PASS