

**APPROVALS / RECOMMENDATIONS CLAIMABLE FOR HI-TEC UNIVERSAL TRANS**

<b>Equipment Manufacturer</b>	<b>Current Specification</b>	<b>Effective Date</b>	<b>Previous Specification</b>	<b>Effective Date</b>			
John Deere	JDM J20C	High Viscosity	Nov. 1991	<b>M</b>	JDM J20A	High Vis	Aug 1982
	JDM J20D	Low Viscosity	Nov. 1991	<b>M</b>	JDM J20B	Low Vis	Aug 1982
					JDM J14C	Low Vis	May 1974
					JDM J14B	High Vis.	May 1974
					JD 303 Fluid JDM J21A		
New Holland Ford (New Holland Group) d.b.a. CNH	ESN-M2C134-D (Hydraulic Oil 134) (FNHA-2-C-201.00)		May 1989	<b>M</b>	ESN-M2C134-C	Oil, Lubricating - Driveline - Wet Brakes - Hydraulic Tractor - VI Improved	Oct. 1983
					ESN-M2C134-B	Oil, Driveline - Wet Brakes - Hydraulic, Tractor	Dec. 1980
	FNHA-2-C-200.00* (Super All Season Driveline and Hydraulic Fluid –F200-A”)		May 1995	<b>M</b>	ESN-M2C134-A	Lubricant - Gear - Wet Brake and Hydraulic	July 1973
	<b>(*Winter grade)</b>				ESN-M2C86-B	Oil, Mild E.P.- Gear - Wet Brake - Hydraulic	Oct. 1980
					ESN-M2C53-A	Differential and Wet Brake Lubricant	May 1964
					ESN-M2C41-B	Oil, Tractor - Hydraulic, Transmission, Power Steering	Oct. 1980
					ESN-M2C48-C	Oil, Hydraulic - Industrial Tractors Service	Dec. 1985
Massey-Ferguson	M-1141	Extreme Pressure Transmission Fluid (North America) (Permatran®III)	June 1986	<b>M</b>	M-1129 A -	Permatran® Extreme Pressure Transmission Fluid	
	M-1135	Transmission - Hydraulic Oil (Europe)	June 1986	<b>M</b>	M-1127-B	Transmission - Hydraulic - Wet Brake Fluid Low Temp. Grade	
	M-1143	Transmission and Hydraulic Oil (Europe)	June 1994	<b>M</b>	M-1127-A	Transmission - Hydraulic - Wet Brake Fluid High Temp. Grade	
					M-1110	Automatic Transmission Fluid - Type A/Suffix A, DEXRON® or DEXRON®-II, C-3	

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Case Corp. (J.I. Case and International Harvester) d.b.a. CNH	MS-1209	HY-TRAN ULTRA®	Oct. 1999	<b>R</b>	B-6 (HY-TRAN®) Combination Hydraulic and Transmission Fluid	Oct 1979
	MS-1207	(HY-TRAN® Plus)	Nov 1986	<b>R</b>	MS-1206 (PTF) Power Transmission Fluid	Apr 1982
	MS-1210/ MS-1230	TCH Fluid (JIC145 ) (Poclairn Equip.) Hydraulic Fluid for High Pressure Systems		<b>R</b>	MS-1205 (TFD-II) Transmission Final Drive Fluid MS-1204/ JIC-185  JIC-144 JIC-143 B-5	Oct 1978
<b>HY-TRAN and HY-TRAN Plus and HY-TRAN ULTRA are a Registered Trademarks of Case International</b>						

**M = Meets the requirements**

**R = Recommended**

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<b>Equipment Manufacturer</b>	<b>Current Specification</b>	<b>Previous Specification</b>
Kubota	UDT Hydraulic Fluid Universal Transdraulic Fluid <b>M</b>	---
White Farm (Oliver)	Q-1826, Hydraulic Transmission Fluid (HTF) <b>M</b>	Q-1802 (Type 55 Fluid) Q-1766B (Universal HTF) Q-1766 (Universal HTF) Q-1722 (White MP Tractor Oil) Q-1705 (Universal HTF)
AGCO/Duetz-Allis/Allis-Chalmers	Power Fluid 821XL 272843 <b>M</b>	257541 246634
Steiger	Hydraulic/Transmission Fluid SEMS 17001 <b>R</b>	---
Versatile	- ESN-M2C134-D (FNHA-2-C-201.00)-- <b>M</b>	Hydraulic/Gear Fluid Spec 24M Spec 23M
Landini	Tractor II Hydraulic Fluid <b>R</b>	---
Hesston Fiat	Oilofiat Tutela Multi-F <b>R</b>	AF-87
Oliver	--- <b>R</b>	Q-1802 (Type 55 Fluid)
Sauer/Danfoss (Sundstrand)	Hydrostatic Transmission Fluid <b>R</b>	---
Allison	Type C-4 Fluid <b>M</b>	C-3, C-2 Fluid
Caterpillar	--- <b>M</b>	TO-2
Komatsu Dresser Construction Equipment Division	KES 07.866 Transmission/Hydraulic Fluid <b>R</b>	
ABEX/Dennison	Hydraulic Fluid HF-0 All pumps, HF-2, HF-1 <b>M</b>	
Sperry Vickers	M-2950-S Mobil Hyd. I-286-S Ind. Hyd. <b>M</b>	---
Volvo (VCE)	VME WB101 <b>Approved</b>	---
Clark	Lift Truck Transmission Fluid TA 12, TA 18, HR 500, HR 600	---
ZF	TE-ML-03E Torque Converter Transmission Off-Highway & Industrial <b>Approved</b>  TE-ML-05F Off-Road Axles, exception of hypoid gears <b>Approved</b>	---
<b>Recommended for use in Valmet, Yanmar, New Idea Power Units, Leyland, Belarus, Fiat</b>		

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<b>HYDRAULIC PUMPS UNIVERSALITY</b>				
<b>Manufacturer</b>	<b>Performance Test</b>	<b>Requirement</b>	<b>Result</b>	
Denison	Pump Test			
	<ul style="list-style-type: none"> <li>• T5D Vane Pump HF-O</li> <li>• 46 Series Piston Pump HF-O</li> </ul>	Pass Pass	HF-O Pass and Approval HF-O Pass and Approval	
Vickers	35VQ-25 Pump Test		<u>ISO 46 Grade</u>	
	Ring and Vane Weight Loss, Mg.		<b><u>Test #1</u></b>	<b><u>Test #2</u></b>
	• First 50 Hour Test (Cartridge 1)	90 Max	45	39
	• Second 50 Hour Test (Cartridge 2)	90 Max	53	24
• Third 50 Hour Test (Cartridge 3)	90 Max	64	34	
Sundstrand	Model 22-2132 Variable Displacement Piston Pump	10 Max		0.6
	<ul style="list-style-type: none"> <li>• Flow Degradation, % with 1% Water</li> </ul>			
Plessey-Sundstrand	Gear Pump Test	5.0 Max		0.0
	<ul style="list-style-type: none"> <li>• Flow Degradation % 1000 Hour Test</li> </ul>			