



Super S® Premium Universal J20D Synthetic Tractor Hydraulic

Super S® Premium Universal J20D Synthetic Tractor Hydraulic & Transmission Fluid is a premium, low viscosity multi-functional hydraulic medium specially formulated for use in agricultural and off-road equipment requiring a single lubricant for the transmission, final drive, PTO, wet brakes, and hydraulic system. It meets or exceeds the performance requirements of most original equipment manufacturers. The full synthetic, low viscosity formula is especially for use where John Deere J20D or J21A hydrostatic fluid is required.

Premium Universal J20D's full synthetic formula combines a PAO base oil with a specially selected polymeric viscosity index improver with excellent cold flow properties to provide excellent cold temperature operation down to -50°F. This also provides the fluid a much higher viscosity index than most competing fluids. Viscosity index is a measure of how much temperature causes a fluid to thin when heated or thicken when cooled. The high VI keeps the fluid from thinning too quickly to ensure adequate film protection is maintained as operating temperatures rise.

Premium Universal J20D Synthetic Hydraulic Fluid is formulated to meet the same stringent performance specifications as Super S Premium Universal Tractor Hydraulic. It can be used as a service-fill or top-off where J20D is recommended, and can be substituted for J20C in colder climates or where improved operating efficiency is desired. Premium Universal J20D is formulated to provide excellent oxidation resistance, wear protection, protection against rust and corrosion, and resistance to foaming. It has carefully balanced frictional properties to ensure proper operation of wet brakes and transmission clutches. Universal tractor hydraulic fluids are formulated to maximize brake capacity while minimizing chatter. Premium Universal J20D can provide up-to 24-percent better brake-chatter control than other competitive brands¹.

Premium Universal J20D Tractor Hydraulic & Transmission Fluid contains special friction modifiers that can improve wet-clutch performance by up-to 15% in well maintained systems². Smooth clutch performance provides longer clutch life effectively reducing maintenance costs. The specialized friction modifiers allow the perfect amount of slippage.

Too little clutch slippage results in rough, jerky engagement, while too much slippage can cause clutch surfaces to burn or glaze. Anti-wear and extreme pressure additives play a vital role in keeping gear and bearing wear to a minimum. Oil without the proper additives lacks the qualities to properly lubricate transmission parts which can lead to expensive, catastrophic failures.

FEATURES

- Performance tested both in the lab and in the field, to meet the increased demands for performance and protection of transmissions and hydraulic systems
- Displays superior wet-clutch performance smoothing clutch operation
- Reduces wet-brake chatter and ensures high braking capacity
- Lubricates the transmission, differential and final drive gears in tractors
- High tolerance to water prevents sludge formation that causes filters to plug
- Protects against rust, corrosion, foaming and oxidation
- Compatibility with all types of seals and elastomer
- Antioxidant provides extended service operations and allows the oil to work effectively at high temperatures, helping keep transmissions and hydraulic system parts cool and clean
- Utilizes a polymeric viscosity index improver to expand the usable operating temperature range and make it a multi-grade oil for year-round use
- Compatible with JDM J21A Hydrostatic fluid and can be added to systems which contain hydrostatic fluid
- Prevents the formation of deposits on internal components
- Robust film strength which reduces wear of heavily loaded gears and bearings

¹As per results of the Wet Brake test against a standard reference oil

²Test oil showed 15% better performance against standard reference oil in the JDM Wet Clutch Test



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Typical Characteristics

Super S® Premium Universal J20D Synthetic Tractor		
Properties	Test Method ASTM D-	Data
SAE Grade		5W-20
Flash Point °C/°F,	92	195/383
Pour Point °C/°F,	97	-51/-60
Color	1500	4.0 max
Viscosity		
cSt @ 40°C	445	34
cSt @ 100°C		7.5
Viscosity Index	2270	195
Brookfield @ -20°C	2983	1,500
@ -40°C		18,000
Foaming Characteristics Tendency/Stability		
Sequence I	892	0/0
Sequence II		10/0
Sequence III		0/0

Typical test data are average values only.
Minor variations which do not affect product performance are to be expected during normal manufacturing.

Applications

Super S® Premium Universal J20D Synthetic Tractor Hydraulic Fluid has been field-tested and displays acceptable performance when the following fluids are recommended:

AGCO- Massey-Ferguson	M1110C (obsolete), M1127 A&B, M-1129A M-1135 (obsolete), M-1141 (obsolete), M-1143, M-1145	Kubota	UDT, Super UDT
Caterpillar	TO-2	Oliver	Type 55, 5J, Q1802
Case-New Holland	MS-1207, MS-1209 (Hy-Tran Plus)/MAT 3505, MS-1210/MAT 3506, Hy-Tran (obsolete)	Vickers	35VQ25
Denison	(Pump only) HF-(0 thru 2)	White	Q-1766, Q-1766B (UTHF), Q-1802, Q-1705, Q-1722
Ford-New Holland	M2C134 - (A thru D), M2C41B (obsolete), M2C48C (obsolete)	ZF	TE-ML-03E, TE-ML-05F, TE-ML-17E, TE-ML-21F
I.H.C.	B-6 Hytran		
John Deere	J14(A,B,C,JDT303), J20(A,B,C,D, Hy-Gard), J21A, & J27(10W30)		