

BSXTH

BIO SYNXTRA TRANS HYDRAULIC UNIVERSAL TRACTOR FLUID

SICURO PER L'UOMO

PRODOTTO FACILMENTE BIODEGRADABILE

SICURO PER L'AMBIENTE

PRODOTTO DI ORIGINE
VEGETALE

"Lubrificanti provenienti da fonti rinnovabili che lavorano come Sintetici"

Bio-SynXtra™ Trans-Hydraulic è un fluido universale per trattori che incorpora la tecnologia additiva Stabilized* a base di vegetali biodegradabili. Questa formulazione contiene speciali modificatori di attrito per la progettazione delle attrezzature del freno di Wet ed è composto con un detergente, disperdente, anti-usura, anti-ruggine e anti-schiuma inibitori. Questo **Bio-SynXtra™ Trans-fluido** idraulico è Multi-grade lubrificante che può essere utilizzato in macchine agricole, industriali e da costruzione ed ha dimostrato ottime prestazioni sul campo. Soddisfa o supera i requisiti di Quatrol John Deere e Hygard (Specification J20-C); Allison C-3, Cat. A-2 e API GL-4, FZG/Low-Speed/High Torque. Passa: J20-C/M1139 High Torque Axle, Wet Brake Chatter/ Squawk, PTO della frizione e i requisiti di prestazione del Nord America per Oli di trasmissione universali del trattore (UTTOs). Soddisfa e supera fluido universale trattore (UTF) specifiche per gli OEM.

John Deere	J20C, J14A/B/C,**J20D
Ford, New Holland	M2C134-D, FNHA-2-201,M2C86-C, M2C86-C/B,**M2C41-B/A, M2C48-C/B, M2C92-A,M2C53-B/A, M2C134-C,B,A ,CNH MAT 3525
Massey-Ferguson	M1135, M1141, M1139, M1143,**M1110, M1127B/A, M1129A
Kubota	UDT , SUPER UDT
Steiger	SEMS 1700A
Versatile	28M, 24M
Case International	**JIC-145/MS-1210,JIC-185/MS-1204,MS-1205, MS-1206, MS-1207, MS-1209, MS1127, M1129-A
Agco, White Farm	Q-1826 Q-1705, Q-1766, Q-1802, Type 55
Agco, Deutz-Allis	821XL
Landini	
Fiat-Hesston	AF-87, Multi-F
TRANSMISSION OEM'S	**J20C spec for Allison C4 Caterpillar TO-2

Confezioni

1 Gallone USA	Lt. 3,78
5 galloni USA	Lt. 18,93
55 galloni USA	Lt. 208
330 galloni USA	Lt. 1248

 ENGINEER SUPPORT s.r.l.	Azienda Certificata UNI EN ISO 9001:2008 UNI EN ISO 14001:2004
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PRODOTTO PER USO PROFESSIONALE

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Test	Typical Results	Specification Limits
Viscosity @ 100°C ASTM D-445	9.72	9.10 min.
Viscosity @ 40°C ASTM D-445	46.38	Report
Viscosity Index ASTM D-2270	202	140
Shear Stability Orbahn ASTM D-6278		
Vis. @ 100°C (after shear)	9.6	9.10 min.
Brookfield Viscosity ASTM D-2983		
@-20°C 1,500 cP per J20D	1200 cP	5,500 max.
@-35°C	10,500cP	70,000 max.
Flash Point, °C (ASTM D-92)	252	200 min.
Stable Pour Point, °C (ASTM D-97)	-45	-36 max.
Rust Prevention A&B, (ASTM D-665)	Pass Clean	No Visible Rust
Acid Number, mg KOH / g (ASTM D-974)	0.56	Report
Dielectric Strength (ASTM D-877)	48 KV	35 KV (Minimum)
Four Ball Wear (ASTM D-4172)		
1 h, 65°C, 1500 rpm, 40 kg,	0.36	0.40 max.
Oxidation Stability JDQ 16		
Evaporation Loss	0.85 %	5.0 % max.
Viscosity Increase @ 100°C	3.0 %	10.0 % max.
Viscosity Increase @ 40°C	3.8 %	-----
Sludge Formation	None	None
Additive Separation	None	None
Rust Protection JDQ 22	>100	100 hrs. min.
Copper Corrosion JDQ 32	1A	1B max.
Foaming Characteristics JDQ 33		
Sequence I	0/0	25/0 ml. max.
Foam Breaktime	0	30 sec. max.
Sequence II	40/0	50/0 ml. max.
Foam Breaktime	0	30 sec. max.
Sequence III	0/0	25/0 max.
Foam Breaktime	0	30 sec. max.
Water Sensitivity JDQ 19		
Solids	0.0	0.1 %v max.
Additive Loss	0.0	15.0% wt. max.
Extreme Pressure Properties JDQ 34		
Timken Abrasion Mass Loss	0.5 mg.	1.5 mg. max
Timken OK Load	73 N	45 N min.
Rubber Compatibility JDQ 9		
Volume Change	+2	0 to +5%
Hardness Change	-1	0 to -5 pts.
Precipitation	None	Trace
Rubber Compatibility Reference 69X31111		
Volume Change	+3	0 to +5
Hardness Change	-1.5	0 to -5
Precipitation	None	None
Oil Compatibility JDQ 23		
Additive Separation	None	None
Oxidation Stability		
Evaporation Loss	1.6	5.0 % max.
Viscosity Increase @ 100°C	4.0	10.0 % max.
Viscosity Increase @ 40°C	7.9	-----
Sludge Formation	None	None
Additive Separation	None	None



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Test	Typical Results		Specification Limits	
Low Temperature Fluidity JDQ 73/74				
Cold Soak @ -35°C	27 secs.		30.0 sec. max.*	
Slow Cool @ -30°C	30 mm in 3 sec.		30.0 sec. max.*	
Slow Cool @ -35°C flow in 30 sec.	30 mm in 11 sec.		10.0 mm min.**	
*Must flow 30 mm in a maximum of 30 seconds to pass.				
JDQ 94 PST Clutch Friction				
total Cycles	2,000		2,000	
Initial Friction Coefficient	0.077		0.15 max.	
Final Friction Coefficient	0.105		0.08 min.	
Stall Time (sec.)	1.77		5.0 max.	
Disk #1 Wear (mm)	0.178		0.38 max.	
Disk #2 Wear (mm)	0.174		0.38 max.	
Disk #3 Wear (mm)	0.254		0.38 max.	
Disk #4 Wear (mm)	0.178		0.38 max.	
JDQ 102 Shear Stability				
Viscosity @ 100°C	9.8			
Viscosity @ 100°C (sheared)	9.4			
% Viscosity Loss	6.0%			
JDQ 95 Spiral Bevel/Final Drive Gear Wear				
Gear Surface Condition				
Pinion	None		No Scoring	
Ring	None		No Scoring	
Spiral Bevel Rating	9		Scale of 1-10, 10 = the best	
Sun Pinion Wear Left Side Average	<0.025		<0.025	
Right Side Average	<0.025		<0.025	
JDQ 84 Sundstrand Hydraulic Pump				
Flow Degradation	Better than reference		Equal to or better than reference which is -2.0%.	
JDQ 96 Brake Torque Variation and Friction				
	Computer Results	Torque	SwRI	
Cycles	Relative Capacity	Variation	Variation	
1,000	293,131	44,470	559,780	
10,000	308,090	36,730	424,130	
20,000	310,651	36,220	421,620	
30,000	312,768	42,380	506,220	
Total	1,224,640	159,800	1,911,750	
Allison C-4 Oxidation Test (J20C Spec.)				
Tan Increase	5.0		7.0 max.	
Carbonyl Absorbance	0.9		0.9 max.	
Front Pump Seal	Moderate to Heavy Hardening		Moderate to Heavy Hardening	
	Light Sludge		Light to Medium Sludge	
Allison C-4 Wear Test				
Total weight loss	1.4 mg		15.0 max.	
Allison C-4 Paper Clutch Friction test	<=5,000 >5,000		<=5,000 >5,000	
	Cycles		Cycles	
Slip Time, max.	0.70	0.55	0.72	0.61
Mid-Point Friction Coeff. min.	0.076	0.095	0.068	0.088
Allison C-4 Graphite Clutch Friction Test	1,500		5,500	
	Cycles			
Slip Time, max.	0.70	0.74	0.71 max.	
Mid-Point Friction Coeff. min.	0.101	0.097	0.104 min.	



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