



AGRICULTURE & CONSTRUCTION EQUIPMENT

AUTOMATIC TRANSMISSION PRODUCTS

OEMs continue to evolve transmission and driveline designs are becoming more severe. One brand has evolved right alongside – Volotec. We know farmers and construction managers require reliable products. Only the most advanced lubricants meet the difficult challenges of effectively balancing performance, strength and durability.

POWERFUL ANTI-FRICTION, ANTI-WEAR CHEMISTRY

Volotec provides outstanding control of friction and wear. Advanced molecules bond together to create a wear-resistant shield that works to build barriers that reduce friction and wear.

WITHSTANDS THE MOST EXTREME CONDITIONS

Volotec Agriculture and Construction Lubricants provide unsurpassed protection even in the harshest conditions. We offer a wide range of lubrication products for most farming and construction operations.

TYPICAL PROPERTIES

Viscosity Grade		Universal Tractor Hyd	Hydrostatic 46	TO-4 SAE 10	TO-4 SAE 30	TO-4 SAE 50
Brookfield						
Viscosity at -35°C, cP	ASTM D2983	35,000	-	-	-	-
Calcium, wt. %	ASTM D5185	0.334	0.003	-	-	-
Color	ASTM D1500	2.5	0.5	2.0	5.0	8.0
Flash Point °C	ASTM D92	224	-	210	216	218
Flash Point °F	ASTM D92	435	-	410	420	425
Gravity, °API	ASTM D287	30.20	31.50	30.75	27.74	26.97
Phosphorus, wt. %	ASTM D5185	0.13	0.033	-	-	-
Pour Point °C (°F)	ASTM D5950	-39°C (-38°F)	-48°C (-54°F)	-	-	-
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8751	0.8681	0.8721	0.8886	0.8929
Viscosity @ 100°C cSt	ASTM D445	9.781	7.72	6.929	11.87	19.45
Viscosity @ 40°C cSt	ASTM D445	70.43	43.93	43.25	106.6	212.6
Viscosity Index	ASTM D2270	122	146	118	100	104
Zinc, wt. %	ASTM D5185	0.139	0.041	-	-	-
Oxidation Hours	ASTM D943	-	5000	-	-	-
Sulfur, wt. %	ASTM D4951	-	0.065	-	-	-

INDUSTRY/OEM APPROVALS

Title	Universal Tractor Hyd	Hydrostatic 46	TO-4 SAE 10	TO-4 SAE 30	TO-4 SAE 50
ABEX/Denison HF-0, HF-1, HF-2	Suitable for Use	-	-	-	-
AGCO 821XL	Suitable for Use	-	-	-	-
Allison C-4	Suitable for Use	-	Meets Requirements	Meets Requirements	Meets Requirements
Allison C-4, C-2	Suitable for Use	-	-	-	-
API GL-4	Suitable for Use	-	-	-	-
auer/Danfoss (Sundstrand) Hydrostatic Transmission Fluid	Suitable for Use	-	-	-	-
Case JIC 144, 145	Suitable for Use	-	-	-	-
Case MS-1209, 1210, 1207, 1204	Suitable for Use	-	-	-	-
CAT TO-2	Suitable for Use	-	Suitable for Use	Suitable for Use	Suitable for Use
Clark Lift Truck Transmission Fluid TA 12, TA 18, HR 500, HR 600	Suitable for Use	-	-	-	-
Deutz, Allis-Chalmers Power Fluid 821	Suitable for Use	-	-	-	-
Ford/NewHolland ESN-M2C134A-D (NH-410B), ESN-M2C86A, B, C, ESNM2C-41, 41A & B, 43, ESN-M2C-48B & C, ESN-M2C53A & B, ESN-M2C-77A, 78A, 79A, ESN-M2C-142A, ESN-M2C-143, ESN-M2C-92A, ESN-M2C-159A-C, M4864A & B	Suitable for Use	-	-	-	-
Hesston-Fiat AF-87, Oilofiat Tutela Multi-F	Suitable for Use	-	-	-	-
International Harvester Hy-Tran B-6	Suitable for Use	-	-	-	-
John Deere J20C, J20A, J14A-C, 303	Suitable for Use	-	-	-	-
Komatsu AX080 and prior, Dresser, Landini	Suitable for Use	-	-	-	-
Kubota UDT	Suitable for Use	-	-	-	-
Massey Ferguson					

M-1103A, M-1103B, M-1110, M-1127, M-1127A, M-1127B, M-1129, M-1129A, M-1135, M-1138, M-1141, M-1143, M-1145	Suitable for Use	-	-	-	-
MAT 3540, 3525, 3526, 3510, 3506, 3505	Suitable for Use	-	-	-	-
Oliver/White Q- 1826, Q1766, Q1722, Q1766B, Q1705, Q1802, Type 55	Suitable for Use	-	-	-	-
Sauer/Danfoss (Sundstrand) Hydrostatic Transmission Fluid	Suitable for Use	-	-	-	-
Steiger Hyd-Trans SEMS 17001	Suitable for Use	-	-	-	-
Valmet, Yanmar, New Idea Power Units, Leyland, Belarus & Fiat	Suitable for Use	-	-	-	-
Versatile ESN- M2C134D (FNHA-2- C-201.00)	Suitable for Use	-	-	-	-
Vickers/Eaton M- 2950-S, I-286-S	Suitable for Use	-	-	-	-
Volvo WB101, Volvo VCE 1273.03	Suitable for Use	-	-	-	-
ZF TE-ML-03E Torque Converter Transmission	Suitable for Use	-	-	-	-
ZF TE-ML-05F Off- Road Axles, exception of hypoid gears	Suitable for Use	-	-	-	-
Bosch Rexroth	-	Suitable for Use	-	-	-
Cincinnati/MAG IAS P-70	-	Suitable for Use	-	-	-
DIN 51524, Part 1,2,3	-	Suitable for Use	-	-	-
General Motors LS-2	-	Suitable for Use	-	-	-
JCMAS HK	-	Suitable for Use	-	-	-
Parker Denison HF-0, HF-1	-	Suitable for Use	-	-	-
Parker Denison HF-2	-	Suitable for Use	-	-	-
Sperry Vickers/Eaton I- 286-S, M-2950-S	-	Suitable for Use	-	-	-

US Steel 127, 136	-	Suitable for Use	-	-	-
CAT TDT0	-	-	Suitable for Use	Suitable for Use	Suitable for Use
CAT T0-4	-	-	Meets Requirements	Meets Requirements	Meets Requirements
Vickers	-	-	Meets Requirements	Meets Requirements	Meets Requirements
ZF TE-ML 03C	-	-	Meets Requirements	Meets Requirements	-

Information accurate as of October 10, 2024