

BIO-XPL Hydraulic Fluid

BIO-XPL Hydraulic Fluid offers unparalleled performance for an environmentally friendly hydraulic fluid. Made with renewable biosynthetic base oils and non-toxic additives, the readily biodegradable fluid has low aquatic toxicity and will not bioaccumulate, minimizing the environmental damage and cleanup expense for an accidental release. BIO-XPL Hydraulic Fluid is formulated for maximum wear protection and stability allowing for longer oil and filter change intervals and extended asset life. The ultra-high viscosity index delivers improved hydraulic efficiency and productivity.

BIO-XPL Hydraulic Fluid Meets or Exceeds:

Eaton E-FDGN-TB002-E	Parker Hannifin HF-0 (-1, -2)	ASTM D6158 HVHP	ISO 15380 HEPR
Bosch Rexroth RE 90220	Parker Hannifin HF-6 HEPR	DIN 51524-3 HVLP	
Danfoss 520L0463	EPA Vessel General Permit	ISO 11158 HV	

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES
ISO Grade	ASTM D2422	46
Fluid Temperature Operating Range, °F		-20 to 160
Density, g/ml @ 15.5°C	ASTM D1298	0.853
Density, lb/gal @ 60°F	ASTM D1298	7.123
Kinematic Viscosity, cSt @ 40°C	ASTM D445	46
Kinematic Viscosity, cSt @ 100°C	ASTM D445	9.3
Viscosity Index	ASTM D2270	192
Brookfield Viscosity, cP @ -20°C	ASTM D2983	1260
Brookfield Viscosity, cP @ -30°C	ASTM D2983	3120
Brookfield Viscosity, cP @ -40°C	ASTM D2983	9680
Pour Point, °F (°C)	ASTM D97	-60 (-51)
Flash Point, °F (°C)	ASTM D92	455 (235)
Fire Point, °F (°C)	ASTM D92	538 (281)
4-Ball Wear, scar diameter, mm	ASTM D2266	0.45
FZG Scuffing, A/8.3/90, Fail Stage	ASTM D5182	> 12
TOST Oxidation Stability, hrs	ASTM D943	> 8000
KRL Shear Stability, % viscosity loss after 20hr	CEC L-45-A-99	5.3
Copper Corrosion, 3 hr @ 121°C	ASTM D130	1B
Rust Test, Distilled Water	ASTM D665A	Pass
Rust Test, Syn. Sea Water	ASTM D665B	Pass
Water Separability, min @ 54°C	ASTM D1401	15
Foam, Blow/Settle ml/ml, Seq. I, II, III	ASTM D892	0/0, 0/0, 0/0
Air Release, min @ 50°C	ASTM D3427	< 7
Nitrile Elastomer Compatibility	ASTM D4289	SRE-NBR 1 @ 100°C for 168hr
- Volume Change, %		1.1
- Shore A Hardness Change, %		0
Viton Elastomer Compatibility	ASTM D4289	FKM 2 @ 100°C for 168hr
- Volume Change, %		3.8
- Shore A Hardness Change, %		0
Fluid Cleanliness	ISO 4406	16/14/11 or cleaner
Biodegradability, %	OECD 301B	> 60
Renewable Content, %	ASTM D6866	> 90

WARRANTY:

When properly stored and used in accordance with instructions, any material not satisfactory will be replaced with any product in our line on a dollar for dollar basis provided the account is paid in full when due and Hydrotex is notified in writing within 12 months of the date of the order by the customer.

Hydrotex® is a manufacturer and distributor of high performance lubricant and fuel improver solutions. As an employee owned company, we help our customers develop sustainable solutions designed to improve system reliability, save energy, limit pollution, extend fixed asset life, reduce maintenance costs and improve fuel efficiency. Our products and services leverage over 85 years of innovation resulting in superior lubrication solutions and high touch customer service.