

READILY BIODEGRADABLE HYDRAULIC FLUID

Description:

EnviroLogic® 122 hydraulic fluid is a readily biodegradable, biobased high dielectric ISO 22 viscosity grade hydraulic oil for use in general purpose hydraulic systems. EnviroLogic® 122 is based on unique base oil technology and is a direct replacement for petroleum oil based hydraulic fluids of the same viscosity. EnviroLogic® 122 is formulated for high anti-wear performance, excellent water separation, low foaming and air release characteristics, excellent corrosion and rust protection, and high oxidative stability for long fluid use. It also has a high viscosity index and will permit fluid operation over an extremely broad temperature range. EnviroLogic® 122 is non-conductive and designed for use in equipment which is near high voltage, therefore protecting the equipment operator. EnviroLogic® 122 has reduced environmental impact in the event of a leak or spill, as it is readily biodegradable and non-sheening.

EnviroLogic® 122 is self certified as an Environmentally Acceptable Lubricant (EAL) compliant with 2013 US EPA Vessel General Permit (VGP).

EnviroLogic® 122 is approved and / or meets specifications of:

- USDA BioPreferred*
- Altec Industries
- Terex Utilities
- Versalift
- TSE International
- Utility Crane & Equipment
- North American Equipment Upfitters
- Posi-Plus
- Stamm Manufacturing
- O.G. Hughes & Sons
- Sauer Danfoss
- Allan Fyfe Equipment Ltd.

Property	Method	Requirements	Result
Kinematic Viscosity	D445		
At 40°C, cSt		19.8 – 24.2	22
At 100°C, cSt			5.5
Viscosity Index	D2270	90 min	206
Density (60°F), kg/m ³	D4052	Report	877
Density (60°F), lbs/gal	D4052	Report	7.30
API Gravity (60°F)	D1298	Report	29.9
Pour Point, °C	D97	-12 max	-42
Flash Point (COC), °C	D92		180
Acid Number, mgKOH/g	D664	Report	0.30

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Property	Method	Requirements	Result
Steel Pin Corrosion (24 hours, 100°C)	D665		
Deionized Water		Pass	Pass
Synthetic Salt Water		Pass	Pass
Copper Corrosion (3 hours, 100°C)	D130	2 max	1B
Foam Properties (after 10 minutes)	D892		
Sequence I, mL	Tendency-Stability	50-0 max	50-0
Sequence II, mL	Tendency-Stability	50-0 max	50-0
Sequence III, mL	Tendency-Stability	50-0 max	50-0
Demulse Properties (54°C)	D1401		
Oil / Water / Emulsion		40 / 37 / 3	40 / 40 / 0
Minutes		30 max	30
Hydrolytic Stability	D2619		
Copper Weight Loss, mg/cm ³			0.09
Change in Acid Number, mgKOH/g			0.09
Appearance of Copper Panel			1B
Four Ball Wear	D4172		
75°C/1200 rpm/ 40 kg/ 1 Hr.			0.53
Biodegradability, % in 28 Days	D7373	> 60	> 60
Ecotoxicity			
Fathead minnow, 96h LC50, ppm	OECD 203	> 100	> 10,000
Daphnia magna, 48h EC50, ppm	OECD 202	> 100	> 100
Algae, 72h EC50, ppm	OECD 201	> 100	> 100
Elastomer SRE-NBR-1 (100°C 168 hours)	D471	Pass	Pass
Elastomer HNBR (100°C 168 hours)	D471	Pass	Pass
Elastomer FKM (100°C 168 hours)	DIN 1817	Pass	Pass
Compatibility with Select Hydraulic Fluids			
Biodegradable Competitor stored @ 100°F		Pass	Pass
Biodegradable Competitor stored @ -5°F		Pass	Pass
Petroleum Hydraulic Fluid stored @ 100°F		Pass	Pass
Petroleum Hydraulic Fluid stored @ -5°F		Pass	Pass

*based on actual/component data

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9609 Jackson Street
Mentor, Ohio 44060
800-661-3558
rscbio.com

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