

READILY BIODEGRADABLE HYDRAULIC FLUID

Description:

EnviroLogic® 115 hydraulic fluid is a readily biodegradable and safer high dielectric ISO 15 viscosity grade hydraulic oil designed with Utility general purpose hydraulic systems in mind. EnviroLogic® 115 is based on unique base oil technology and is a direct replacement for petroleum oil based hydraulic fluids of the same viscosity. EnviroLogic® 115 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® 115 is non-conductive and designed for use in equipment which may be near high voltage, therefore protecting the equipment operator. EnviroLogic® 115 has reduced environmental impact in the event of a leak or spill, as it is readily biodegradable and non-sheening.

EnviroLogic® 115 is self certified as an Environmentally Acceptable Lubricant (EAL) compliant with 2013 US EPA Vessel General Permit (VGP).

EnviroLogic® 115 is approved and / or meets specifications:

- Eaton 2520 VQ
- MIL-PRF-32073A Grade I

Property	Method	Requirements	Result
Kinematic Viscosity	D445		
At 40°C, cSt		13.5 – 16.5	15.8
At 100°C, cSt			4.1
Viscosity Index	D2270	90 min	172
Density (60°F), kg/m ³	D4052	Report	844
Density (60°F), lbs/gal	D4052	Report	7.01
API Gravity (60°F)	D1298	Report	35.0
Pour Point, °C	D97	-12 max	-63
Flash Point (COC), °C	D92		172
Acid Number, mgKOH/g	D664	Report	0.30
Steel Pin Corrosion (24 hours, 100°C)	D665		
Deionized Water		Pass	Pass
Synthetic Salt Water		Pass	Pass

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Property	Method	Requirements	Result
Copper Corrosion (3 hours 100°C)	D130	2 max	1B
Foam Properties	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., mm			0.51
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 (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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