

# HIGH PERFORMANCE, READILY BIODEGRADABLE HYDRAULIC FLUID

## Description:

EnviroLogic® 3015 hydraulic fluid is a high performance, readily biodegradable synthetic ISO 15 grade hydraulic fluid. It is intended for severe service, extreme high temperature (250°F / 121°C), low temperature (-40°F / -40°C), and high pressure (5000+psi) applications. It exhibits enhanced wear protection, cleanliness, and longer life than conventional petroleum hydraulic oils. EnviroLogic® 3015 can directly replace petroleum oil based hydraulic fluids of the same viscosity, yet has reduced environmental impact in the event of a leak or spill, as it is readily biodegradable and non-sheening.

EnviroLogic® 3015 series is certified as an Environmentally Acceptable Lubricant (EAL) compliant with 2013 US EPA Vessel General Permit (VGP).

Meets the ISO classification Hydraulic Environmental Polyalphaolefin and related hydrocarbon products (HEPR) per ISO 6743-4.

Property	Method	Requirements	Result
Kinematic Viscosity			
At 40°C, cSt	D445	13.5-16.5	15
At 100°C, cSt	D445		4.4
Viscosity Index	D2270	90 min	220
Density(60°F), kg/m <sup>3</sup>	D4052	report	845
Pour Point, °C	D97	-15 max	<-66
Flash Point (COC), °C	D92		185
Acid Number, mg KOH/g	D664	Report	0.30
Steel Pin Corrosion (4 hours, 60°C)	D665	Pass	
Deionized Water			Pass
Synthetic Salt Water			Pass
Foam Properties (after 10 minutes)	D892		
Sequence I, mL	Tendency/Stability	150-0 max	0-0
Sequence II, mL	Tendency/Stability	75-0 max	5-0
Sequence III, mL	Tendency/Stability	150-0 max	0-0
Copper Corrosion	D130		
3hrs @ 100 °C		2 max	1a
Oxidation	D2272		
Min. to 25psi loss			400-500

Property	Method	Requirements	Result
Demulse Properties (54°C)	D1401		
Oil / Water / Emulsion		40/37/3	40 / 40 / 0
Minutes		30	10
Biodegradability, %	D7373	60% min	>60
Ecotoxicity			
Fathead minnow, 96h LC50, ppm	OECD 201	>100	>10,000
Daphnia magna, 48h EC50, ppm	OECD 202	>100	>120
Algae, 72h EC50, ppm	OECD 203	>100	>10,000
Elastomer Compatibility			
NBR (100°C/168 hours)	D471		Pass
HNBR (100°C/168 hours)	D471		Pass
PU (100°C/168 hours)	DIN 1817		Pass
FKM (150°C/168 hours)	DIN 1817		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

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