RSC ENVIROLOGIC

READILY BIODEGRADABLE ISO 100 HYDRAULIC FLUID

Description

RSC *EnviroLogic*[®] HF 100 hydraulic fluid is a readily biodegradable, biobased ISO 100 grade hydraulic oil for use in general purpose hydraulic systems. It is based on natural ester technology and is a direct replacement for petroleum oil based hydraulic fluids of the same viscosity. The product demonstrates excellent low and high temperature viscosity performance and has superior anti-wear characteristics. RSC *EnviroLogic*[®] HF 100 has reduced environmental impact in the event of a leak or spill, as it is readily biodegradable and non-sheening*.

It is an Environmentally Acceptable Lubricant (EAL) compliant with 2013 US EPA Vessel General Permit (VGP).

Property	Method	Requirements	Result
Kinematic Viscosity	D445		
At 40°C, cSt		90.0 - 110.0	100
At 100ºC, cSt			18.1
Viscosity Index	D2270	90 min	201
Density (60°F), kg/m ³	D4052	Report	920
Density (60ºF), lbs/gal	D4052	Report	7.66
API Gravity (60ºF)	D1298	Report	22.3
Pour Point, ºC	D97	-15 max	-33
Flash Point (COC), ºC	D92	185 min	205
Acid Number, mgKOH/g	D664	Report	0.30
Steel Pin Corrosion (4 hours, 100°C)	D665	Pass	
Deionized Water			Pass
Synthetic Salt Water			Pass
Copper Corrosion (3 hours, 100°C)	D130	2 max	1B
Foam Properties (after 10 minutes)	D892		
Sequence I, mL	Tendency-	50-0 max	50-0
	Stability		
Sequence II, mL	Tendency-	50-0 max	50-0
	Stability		
Sequence III, mL	Tendency-	50-0 max	50-0
	Stability		

RSC *EnviroLogic*[®] HF series meets the requirements for various manufacturers. Visit our <u>website</u> or contact customer service for a full list of OEM approvals.



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Method	Requirements	Result
D1401		•
	40 / 37 / 3	40 / 40 / 0
	30 max	30
D2619		
		0.09
		0.09
		1B
D4172		
		0.67
35VQ25		Pass
		3.9
D5182	10	10
D7373	>60	>60
OECD 203	>100	>10,000
OECD 202	>100	>100
OECD 201	>100	>100
D471	Pass	Pass
D471	Pass	Pass
DIN 1817	Pass	Pass
6		
Biodegradable Competitor stored @ 100°F		Pass
Biodegradable Competitor stored @ -5°F		Pass
Petroleum Hydraulic Fluid stored @ 100°F		Pass
Petroleum Hydraulic Fluid stored @ -5ºF		Pass
	D1401 D2619 D4172 35VQ25 D5182 D7373 OECD 203 OECD 202 OECD 201 D471 D471 D471 DIN 1817 S 0 100°F 2-5°F 100°F	D1401 40 / 37 / 3 30 max D2619 D4172 35VQ25 D5182 10 D7373 >60 OECD 203 >100 OECD 202 >100 OECD 201 >100 OECD 201 >100 D471 Pass DIN 1817 Pass 9 100°F Pass 100°F Pass 100°F Pass 100°F Pass 100°F

*CFR40 Part 435B

**based on read across from RSC EnviroLogic® HF 46.

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For more information about RSC Bio Solutions, visit us at rscbio.com or call +1 704.684.6100.



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