RSC ENVIROLOGIC

READILY BIODEGRADABLE ISO 68 HYDRAULIC FLUID

Description:

RSC *EnviroLogic*[®] HF 68 hydraulic fluid is a readily biodegradable, biobased ISO 68 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. RSC *EnviroLogic*[®] HF 68 exceeds the requirements of petroleum based hydraulic fluids. It is intended for use in applications with temperature requirements ranging from -20°F to 200°F and pressure requirements up to 5000 psi. It 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		61.2 – 74.8	68
At 100°C, cSt		7.8 min	14.5
Viscosity Index	D2270	140 min	224
Density (60ºF), lbs/gal	D4052	Report	7.66
API Gravity (60ºF)	D1298	Report	22.3
Pour Point, °C	D97	-18 max	-36
Flash Point (COC), ºC	D92	185 min	230
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-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

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



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D2619 D4172		0.09 0.09 1B
D4172		0.09 1B
D4172		1B
D4172		
D4172		
		0.37
35VQ25		Pass
D5182	10 min	11
ISO 20763		
	120 max	1.9
	30 max	4.8
T6H20C		
	300 max	186.7
	15 max	1.4
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
Biodegradable Competitor stored @ 100°F		Pass
Biodegradable Competitor stored @ -5°F		Pass
Petroleum Hydraulic Fluid stored @ 100°F		Pass
Petroleum Hydraulic Fluid stored @ -5°F		Pass
	D5182 ISO 20763 T6H20C D7373 OECD 203 OECD 202 OECD 201 D471 D471 D471 D471 DIN 1817 00°F 5°F 00°F	D5182 10 min ISO 20763 120 max 30 max T6H20C 300 max 15 max D7373 >60 OECD 203 >100 OECD 202 OECD 203 >100 OECD 201 OECD 201 >100 D471 D471 Pass DIN 1817 Pass 00°F Pass 00°F Pass 00°F Pass 00°F Pass 00°F Pass

*CFR40 Part435B

**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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