



35585 Curtis Boulevard • Eastlake, Ohio 44095 • (440) 951-8633 • (440) 951-4341 FAX

EnviroLogic[®] 3046

High Performance Biodegradable Hydraulic Fluid

Description

EnviroLogic[®] 3046 Hydraulic Fluid is a high performance, semi-synthetic, readily biodegradable, non-hazardous ISO 46 grade hydraulic fluid. It is intended for severe service, extreme high temperature (400°F), low temperature (-40°F) and high pressure applications. It exhibits enhanced wear protection, cleanliness and longer life than conventional petroleum hydraulic oils. EnviroLogic[®] 3046 can directly replace petroleum oil based hydraulic fluids -- yet has reduced environmental impact in the event of a leak or spill.

Typical Properties

Flash Point, °F	ASTM D-92	430
Specific Gravity, 60° F	ASTM D-1122	0.860
ISO Viscosity Grade	ISO	46
Viscosity @ 40° C, cSt	ASTM D-445	49.0
Viscosity @ 100° C, cSt	ASTM D-445	10.0
Viscosity Index	ASTM D-2270	185
Pour Point, °C	ASTM D-97	
-40		

Performance Properties

Biodegradability

OECD 301 B Method	>66%
CEC L-33-T-82 Method	>90%

Aquatic Toxicity

EPA/60/4-90/0275 Fathead minnow	24Hr.	LC ₅₀ >
10,000 ppm		
	48 Hr.	LC ₅₀ > 10,000 ppm

Oxidative Stability (D 2272 @ 150°C / RBOT)

Minutes
300



"Solutions for a Greener World"

Static Oxidation Test

168 hrs. @ 150°C
condition of beaker

clean



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Four Ball Wear Test, ASTM 2266

1 hr., scar mm, 40 kg,, 302°F, 1800 RPM 0.40

Vickers Pump (35VQ25)

200°F, 300 psi, mg. Wear Pass

Hydraulic Pump Test, ASTM D-2282

Ring and vanes Pass

Timken Wear, ASTM D-2782

OK Load, lbs. 50

Foam , ASTM D-892

Sequence I, II, III Pass

Hydrolytic stability, ASTM D-2619

Copper loss / appearance/ NNA 0.00 / 1B / 0.00

Rust, ASTM D665B

Synthetic seawater Pass

Copper Corrosion, ASTM D-130

3 hours @ 100°C 1a