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## EnviroLogic<sup>®</sup> 146

### Biodegradable Hydraulic Fluid

EnviroLogic<sup>®</sup> 146 Hydraulic Fluid is a readily biodegradable and non-hazardous ISO 46 grade hydraulic oil for use in general purpose hydraulic systems. EnviroLogic<sup>®</sup> 146 is based on natural ester technology and is a direct replacement for petroleum oil based hydraulic fluids. EnviroLogic<sup>®</sup> 146 exceeds the requirements of petroleum oil based hydraulic fluids and has excellent antiwear characteristics. EnviroLogic<sup>®</sup> 146 demonstrates outstanding low temperature viscometric properties.

#### **Typical Properties**

Flash Point, °F	ASTM D-92	>400
Specific Gravity, 60°F	ASTM D-1122	0.92
Viscosity @ 40°C, cst.	ASTM D-445	46.0
Viscosity @ 100°C, cst.	ASTM D-445	7.5
Viscosity Index	ASTM D-2270	200
Pour Point	ASTM D-97	-36°C
Brookfield viscosity @ -30°C, cPs	ASTM D-2983	5100

# EnviroLogic® 146

## Summary of Performance

### Biodegradability and Ecotoxicity Testing

Grass exposure test

Result Zero after 2 weeks

Biodegradability

CEC-L-33-T-82 94%

Modified Sturm, OECD 301 B 61%

Ecotoxicity

Fathead minnow, 96h LL50, ppm >10,000

Daphnia magna, 48h, EC50, ppm EL >10,000 WAF 10 - 100

Sludge respiration inhibition, EC50, ppm >10,000 ppm 1000

Algae EL 50 100 - 1000

### Pump Performance

#### Vickers 35VQ25 Pump

(3000 psi, 2400 rpm 93.3° C)

Total Ring & Vane Weight Loss (mg)

First 50h Test 8.0

Second 50h Test 11.0

Third 50h Test 8.0

#### Vickers V-104C Pump

(2000 psi, 1200 rpm 79.4° C)

Total Ring & Vane Weight Loss (mg)

100 hours 4.0

#### Denison T-5D Vane

Total weight loss Pass

(2000 psi, 93.3° C, 100h)

Call (800) 661-3558 for more information