



LUBRICANTS



# Product Data Sheet

## EcoHarmony Fleet Hydraulic Fluid

### *Biobased Hydraulic Fluid for Environmentally Sensitive Areas*

Biodegradable formula that directly replaces mineral oil based hydraulic fluids. These biobased non-foaming hydraulic fluids are formulated to perform in fleet, marine, and industrial hydraulic systems that require anti-wear (AW), anti-rust, anti-oxidation, and anti-foaming properties. These Environmentally Acceptable Lubricants (EAL's) meet the performance requirements of most major hydraulic pump manufacturers and are recommended for use in modern high-pressure, high-speed hydraulic pumps. EcoHarmony Fleet Hydraulic Fluid is compatible with the same seals, filters, materials, and components that are designed to operate on petroleum oil-based formulations.

### Features and Benefits

- USDA Biobased Tested
- EPA EAL VGP Compliant
- US Steel (126,136,127)
- Non-toxic to fish and aquatic species
- Meets Vickers 35VQ-25 and V104C (ASTM D2882)
- Exceeds DIN 51524 Part 2, 3 (HLP/HVLP) Load stage 10

### Applications

- Direct replacement for petroleum hydraulic fluids
- Compressors bearing lubrication and oil circulation systems
- For construction, forestry, marine, and hydro-electric engineering



1-800-566-4853



East Greenbush, NY



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## Typical Properties

ISO Viscosity Code	Test Method	ISO 22	ISO 32	ISO 46	ISO 68
Product ID		<b>320010</b>	<b>320012</b>	<b>320014</b>	<b>320016</b>
Specific Gravity @ 15.6°C	ASTM D287	0.88	0.88	0.88	0.88
Viscosity cSt @ 40°C	ASTM D445	22.5	30.5	43.1	62.8
Viscosity cSt @ 100°C	ASTM D445	5.3	6.7	8.8	11.9
Viscosity Index	ASTM D2270	182	186	190	189
Brookfield Viscosity @ -25°C	ASTM D2983	1,000cP	1,400cP	3,400cP	4,700cP
Foam Sequence I, II, III (10 min)	ASTM D892	0 Foam	0 Foam	0 Foam	0 Foam
Water Separability, minutes to pass @ 130°F	ASTM D1401	40/40/0 <10 minutes	40/40/0 <10 minutes	40/40/0 <10 minutes	40/40/0 <10 minutes
Flash Point, COC	ASTM D92	457°F	457°F	469°F	483°F
FZG, pass load, ISO 14635-1	Din 51354	11	11	11	11
Pour Point	ASTM D97	-38°F (-39°C)	-38°F (-39°C)	-38°F (-39°C)	-38°F (-39°C)
Copper Corrosion 3hr, 100°C	ASTM D130	1A	1A	1A	1A
Four Ball Wear, 40Kg	ASTM D4172	0.5	0.5	0.5	0.5
Rust Test A&B	ASTM D665	Pass	Pass	Pass	Pass
RPVOT, (minutes)	ASTM D2272	270	272	270	260
Biodegradation Classification	ASTM D5864	Ultimate PW1	Ultimate PW1	Ultimate PW1	Ultimate PW1
	OCED 301B	Readily	Readily	Readily	Readily
Environmentally Friendly	ISO 15380	Yes	Yes	Yes	Yes
USDA Biobased Tested	New Carbon	Yes	Yes	Yes	Yes

*These properties are typical of current production, minor variations are to be expected in normal manufacturing.*

EcoHarmony Fleet Hydraulic Fluids meet the Environmental Protection Agency (EPA) 2013 Vessel General Permit (VGP) guidelines for Environmentally Acceptable Lubricants (EALs) and should be used in hydraulic systems where LOW TOXICITY, BIODEGRADABILITY and NON-BIOACCUMULATION properties are required. They exceed the acute toxicity (LC-50 / EC-50 >1000 ppm) criteria adopted by the US Fish and Wildlife Service and the US EPA.

Rev. 01/23



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