



LUBRICANTS



# Product Data Sheet

## EcoHarmony Ultra Hydraulic Fluid

### *Synthetic Performance for Environmentally Sensitive Areas*

Biodegradable formula that directly replaces mineral oil based hydraulic fluids. These biobased non-foaming hydraulic fluids are formulated to provide superior performance in severe duty and high-load applications. These Environmentally Acceptable Lubricants (EAL's) meet the performance requirements of major hydraulic pump manufacturers and are recommended for use in modern high-pressure, high-speed hydraulic pumps. EcoHarmony Ultra is compatible with the same seals, filters, materials, and components that are designed to operate on petroleum oil-based formulations.

### Features and Benefits

- ASTM D-5864 Aerobic Aquatic Biodegradation
- OECD 301 (Readily)
- USDA Bio-preferred
- EPA EAL VGP Compliant
- Dennison (T-5D)
- US Steel (126,136,127)
- Synthetic Performance

### Applications

- For construction, forestry, marine, and hydro-electric engineering
- Compressors bearing lubrication and oil circulation systems
- Offshore rigs and dredges



1-800-566-4853



East Greenbush, NY



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## Typical Properties

ISO Viscosity Code	Test Method	ISO 32	ISO 46	ISO 68	ISO 100
Product ID		<b>320020</b>	<b>320022</b>	<b>320024</b>	<b>320026</b>
Viscosity cSt @ 40°C	ASTM D445	30.8	43.8	64.1	92.0
Viscosity cSt @ 100°C	ASTM D445	6.9	9.7	12.5	16.7
Viscosity Index	ASTM D2270	184	199	198	199
Brookfield Viscosity @ -25°C	ASTM D2983	1,200cP	3,000cP	4,500cP	5,400cP
Foam Sequence I, II, III (10 min)	ASTM D892	<30/0 Foam	<30/0 Foam	<30/0 Foam	<30/0 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	469°F	483°F	490°F
FZG, pass load, ISO 14635-1	Din 51354	12	12	12	12
Pour Point	ASTM D97	-40°F (-40°C)	-40°F (-40°C)	-38°F (-39°C)	-29°F (-34°C)
Four Ball Wear, 40Kg	ASTM D4172	<0.35	<0.35	<0.35	<0.35
Rust Test A&B	ASTM D665	Pass	Pass	Pass	Pass
RPVOT, (minutes)	ASTM D2272	>350	>350	>350	>350
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 Ultra 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.

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