



Biodegradable Full Synthetic Hydraulic Oils

*5000 hour Premium Performance Fully Synthetic Hydraulic Fluid
Low Temperature and Shear Stable Properties
Used For Critical and Highly Precise Hydraulic Applications*

DESCRIPTION

BioGreen UltraGard Full Synthetic Hydraulic Oils are premium performance hydraulic fluids are shear-stable hydraulic oils with controlled low-temperature properties and maximized anti-wear protection. The products is designed with very high viscosity indexes contributing to their excellent low and high temperature performance.

BioGreen UltraGard Full Synthetic Hydraulic Oils provide excellent shear stability allowing their use in high-pressure, high-temperature operating environments for extended periods of time without the loss of critical lubrication characteristics. They were developed to meet major OEM requirements of hydraulic systems using high pressure, high output pumps as well as handling hydraulic system components such as close clearance servo-valves and the high accuracy numerically controlled machine tools.

BENEFITS

- ✓ Biodegradable;
- ✓ Compatible with petroleum oils - no flushing necessary;
- ✓ Readily recyclable;
- ✓ Long service life under severe conditions;
- ✓ Superior performance while protecting wildlife, vegetation and the environment;
- ✓ Inhibit rust, corrosion and foaming and aid in water tolerance;
- ✓ Contains zinc anti-wear additives for maximum protection to gears and rotors;
- ✓ Excellent low-temperature service, extends oil life;
- ✓ OEM approved additive system;
- ✓ ZERO foam – through 60 hours of testing and beyond;
- ✓ Anti-wear and anti-oxidant characteristic base stock aids outstanding thermal and oxidative stability;
- ✓ High flash point 413 F;
- ✓ Provides lubrication to seals to prevent leaks, helps soften hardened seals;
- ✓ Higher viscosity index and lower pour point;
- ✓ Protects servo-valves and tight tolerance equipment .



APPLICATION

- ✓ Hydraulic systems operating under high pressure and high heat;
- ✓ Overhead electrical service equipment where non-conductive oils are required;
- ✓ Farm tractors with separate, add-on hydraulic tanks for buckets, bale spikes, etc.;
- ✓ Construction equipment such as front end loaders and excavators where AW oils are recommended;
- ✓ Logging equipment such as skidders, feller bunchers , harvesters, loaders where AW oils are recommended;
- ✓ General commercial applications such as hydraulic lifts in muffler shops, scissor lifts, trash compactors;
- ✓ Dump trucks, hydraulic jacks, log splitters, car haulers, lift gates, hydraulic presses, forklifts;
- ✓ Hydraulic systems, such as any heavy equipment, farm tractors, construction equipment, aircraft, lawn equipment and building elevators;
- ✓ Our product is a real “problem solver” when soil/water contamination is an issue.

HEALTH SAFETY

This product is not classified as hazardous under OSHA definition, simply wash with soap and water after handling. Health & Safety information is printed in the MSDS sheet available on request. This product should not be used for purposes other than its intended use. Typical properties may vary slightly due to product research & development, information may change without notification.

PERFORMANCE LEVELS

Denison	HF-O
Vickers Mobile	M-2950
Vickers Industrial	I – 286S
Sundstrand	
Cincinnati Machine	P-68

TYPICAL PROPERTIES	METHOD	AW 32	AW 46	AW 68
Specific Gravity at 15.6°C	D 1298	0.843	0.847	0.872
Viscosity, cSt at 40C	D 445	32.7	43.7	63.6
Viscosity, cSt at 100°C	D 445	6.1	7.3	8.6
Viscosity Index	D 2270	135	132	107
Flash Point, C	D 92	248	248	248
Pour Point, C	D 97	-31	-31	-31
Oxidation	D 943	5000 +	5000 +	5000 +