

Biodegradable Hydraulic Oil - ISO 46

Provides Outstanding Protection and High Biodegradability

AMSOIL Biodegradable Hydraulic Oil is a premium performance hydraulic oil designed to biodegrade when subjected to sunlight, water and microbial activity. Manufactured with a high-quality blend of oleic vegetable oils and customized synthetic esters, it meets the U.S. Federal bio-based procurement guidelines as defined in Section 9002 of the Farm Security and Rural Investment Act of 2002 (FSRIA).

AMSOIL Biodegradable Hydraulic Oil exhibits high biodegradability and low aquatic toxicity, along with superior oxidative stability, low-temperature performance and outstanding results in laboratory and extended-duration pump testing. It contains anti-oxidants that ensure long oil life and foam inhibitors that promote problem-free operation. It is hydrolytically stable and ideal for use where water contamination is a problem. Carefully designed additives help prevent pump wear and protect critical components from rust. AMSOIL Biodegradable Hydraulic Oil meets the stringent Vickers M-2950-S and I-286-S hydraulic oil specifications.



Application Recommendations

AMSOIL Biodegradable Hydraulic Oil is recommended for stationary and mobile applications using gear, vane and piston hydraulic systems operating under high pressure and temperatures up to 180°F. It should also be used where high biodegradability and low aquatic toxicity are desired. Typical applications include construction, logging and farming equipment, lawn and turf care or anywhere leaking, spills or ruptured hydraulic lines may present an environmental hazard.

AMSOIL Biodegradable Hydraulic Oil is compatible with most synthetic and petroleum-based hydraulic oils. However, to ensure proper performance, it is recommended systems be drained and flushed prior to installation.

Performance Features

- Vickers M-2950-S, I-286-S
- 95% Biodegradable (CEC L-33-A-93)
- Low Aquatic Toxicity
- Thermally and Hydrolytically Stable
- Resists Oxidation
- Outstanding Wear Protection
- Anti-Rust and Anti-Foam Protection



TYPICAL TECHNICAL PROPERTIES

Biodegradable Hydraulic Oil (BHO)

ISO VG (ASTM D2422)	46
Kinematic Viscosity @100°C, cSt (ASTM D445)	9.6
Kinematic Viscosity @40°C, cSt (ASTM D445)	45.9
Viscosity Index (ASTM D2270)	200
Specific Gravity (ASTM D1298)	0.938
Density (ASTM D1298)	7.81
Four-Ball Wear Test (ASTM D4172)	
(40 kg, 1200 rpm, 75°C, 60 min.)	0.36
FZG Failure Load Stage (ASTM D5182)	12
Flash Point °C (°F) (ASTM D92)	290 (554)
Pour Point °C (°F) (ASTM D97)	-33 (-27)
Copper Strip Corrosion Test (ASTM D130)	1A
Rust Testing, Distilled and Salt Water (ASTM D665A & B)	Pass
Foam (ASTM D892, Sequence I, II & III)	0/0, 10/0, 0/0
Demulsibility (ASTM D1401)	40/40/0 (10)
Modified Sturm, OECD 301B	Readily Biodegradable (Pw1)
Biodegradability % (CEC L-33-A-93)	95%
Fathead minnow, 96h, LC50, ppm	>10000 ppm
Daphnia magna, 48h, EC50, ppm	>10000 WAF
Cleanliness ISO 4406	17/15/12
(FSRIA) Criteria	Pass

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit www.amsoil.com/warranty.aspx.

AMSOIL PRODUCT AVAILABILITY

AMSOIL products are available in 5-gallon pails, 55-gallon drums, 275-gallon totes and bulk quantities.

AMSOIL Industrial Lubricants are stocked in Superior, Wisconsin and in select regional distribution centers throughout the United States and Canada. AMSOIL will stock additional quantities of lubricants or special-order products based on customer requests and regional demands. For applications and recommendations, contact your local AMSOIL Dealer or the AMSOIL Technical Services Department.

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at www.amsoil.com or upon request at 715-392-7101. **Keep Out of Reach of Children.** Don't pollute. Return used oil to collection centers.



AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.