

### DESCRIPTION

BioGrease HD is a readily biodegradable, minimally toxic, Lithium complex grease formulated to provide high film strength, withstand high operating temperatures, and maintain excellent stability. BioGrease HD features a high viscosity base oil for high load carrying capabilities. BioGrease HD also has excellent anti-wear and water washout properties. It is designed for heavy-duty use in a variety of industrial, mobile, and marine applications.

### FEATURES & BENEFITS

- Excellent anti-wear protection
- BioGrease HD 2 meets NLGI GC-LB requirements
- Powerful protection against water washout
- Readily Biodegradable
- Minimally Toxic
- Lithium complex grease providing superior lubricity
- Withstands high temperatures

### SUITABLE USES

Industrial, hydroelectric dams, refuse, mining, dredging/marine, agriculture, construction, oil & gas, and plant operations equipment where high operating temperatures, heavy loads, water washout, and/or environmental exposure/release are concerns.

### LIMITATIONS

BioGrease HD 1 is Not intended for use in high speed (>2,000 rpm) wheel bearings.

### APPLICATION / TECHNICAL SUPPORT

- Follow recommendations provided in your equipment owner's manual
- Follow your organization's best practices for preparation, cleaning, conversion, application, and ongoing maintenance practices
- **Technical Support** - If you have further questions, please fill out contact form on [bioblend.com](http://bioblend.com) and one of our team will contact you to review your question(s)

### APPROVALS / CERTIFICATIONS

- eSyn Certified
- USDA BioPreferred Program – 90% Biobased material (HD 1)
- Classified as environmentally acceptable lubricants (EAL's) as per EPA standards for biodegradability, toxicity and bioaccumulation in aquatic environments

### PACKAGE SIZES

- 3 x 10 Pks., 14 oz Cartridges (HD 2 Only)
- 35 Lb Pails
- 120 Lb Kegs
- 400 Lb Drums

### STORAGE

Keep in a cool, dry and well-ventilated place. Store in a properly labelled, original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. To help maintain product quality, do not store in heat or direct sunlight.

### CAUTIONS

Ensure adequate ventilation. Do not breathe vapor/dust. Use personal protective equipment and avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. See the safety data sheet (SDS) for emergency, proper handling, and disposal information.

### AVAILABILITY

Worldwide

**TYPICAL PROPERTIES**

Technical Properties	Test Method	HD 1	HD 2
Product Code		BGHD1	BGHD2
NLGI Grade		1	2
Color		Amber	Amber
Thickener		Lithium Complex	Lithium Complex
Cone Penetration	ASTM D217	310-340	265-295
Dropping Point °F (°C)	ASTM D2265	428 (220)	428 (220)
Viscosity @40°C, cSt	ASTM D445	220	220
Viscosity @100°C, cSt	ASTM D445	45.6	36
Performance Properties			
Flash Point °F (°C)	ASTM D92	520 (271)	619 (326)
Fire Point °F (°C)	ASTM D92	550 (287)	>550 (>287)
Timken OK Load, lbs	ASTM D2509	55	55
Water Washout, % loss max	ASTM D1264	6	6
4 Ball Wear, mm	ASTM D2266	.50	.50
4 Ball EP Weld Load, lbs	ASTM D2596	315	315
Rust Test, 1% Synthetic Sea Water	ASTM D05959	Pass	Pass
U.S. Steel Mobility, gm/min	USS LT-37	-	-
@ 77° F	-	2574	-
@ 20° F	-	393	-
@ 0° F	-	106	-
Copper Corrosion	ASTM D4048	1A	1A
Rust Test, A & B	ASTM D665	Pass	Pass
Readily Biodegradable (meaning>60%)		Pass	Pass
Biodegradability, %	OECD 301B	>75	>75
Minimally Toxic		Pass	Pass
Algae (EC 50), 72 hr, mg/L	OECD 201	>26,000 mg/L	>26,000 mg/L
Daphnia (EC 50), 48 hr, mg/L	OECD 202	>13,000 mg/L	>13,000 mg/L
Fish (LC 50), 96 hr, mg/L	OECD 203	>40,000 mg/L	>40,000 mg/L
Not Bioaccumulative (Calculated per EPA standard)		Pass	Pass
Bio-based Content, %	ASTM D6866	90	>80

The values quoted above are typical of normal production. They do not constitute a specification.

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**APPROVALS / CERTIFICATIONS LOGOS**


HD 1

