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BIOGREASE HD 1

EAL Biodegradable Heavy-Duty Grease

NLGI 1

DESCRIPTION

BioGrease HD is a readily biodegradable, minimally toxic, Lithium 12- OH Stearate 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
- Powerful protection against water washout
- Readily Biodegradable
- Minimally Toxic
- Lithium 12-OH Stearate 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

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 and one of our team will contact you to review your question(s)

APPROVALS / CERTIFICATIONS

- eSyn Certified
- USDA BioPreferred Program 90% Biobased material

 Classified as environmentally acceptable lubricants (EAL's) as per EPA standards for biodegradability, toxicity and bioaccumulation in aquatic environments

PACKAGE SIZES

- 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

Daphnia (EC 50), 48 hr, mg/L OECD 202 >13,000 mg/L Fish (LC 50), 96 hr, mg/L OECD 203 >40,000 mg/L Not Bioaccumulative (Calculated value as per EPA standard) Pass	Technical Properties	Test Method	HD #1
Color Amber Penetration ASTM D217 310-340 Dropping Point °F (°C) ASTM D2265 >350 (176) Viscosity @40°C, cSt ASTM D445 220 Viscosity @100°C, cSt ASTM D445 45.6 Performance Properties - - Flash Point °F (°C) ASTM D92 520 (271) Fire Point °F (°C) ASTM D92 520 (271) Fire Point °F (°C) ASTM D92 550 (287) Timken OK Load, Ibs ASTM D2509 55 Water Washout, % loss max ASTM D1264 6 4 Ball Wear, mm ASTM D2596 315 Rust Test, 1% Synthetic Sea Water ASTM D05959 Pass U.S. Steel Mobility, gm/min USS LT-37 - 2574 @ 20° F - 393 - 393 @ 0° F - 106 Copper Corrosion ASTM D4048 1A Rust Test, A & B ASTM D0665 Pass Pass Pass Biodegradablity, % OECD 201 >26,00 mg/l Pass <	Product Code		BG22001
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Dropping Point °F (°C) ASTM D2265 >350 (176) Viscosity @ 40°C, cSt ASTM D445 220 Viscosity @ 100°C, cSt ASTM D445 45.6 Performance Properties	Color		Amber
Viscosity @40°C, cSt ASTM D445 220 Viscosity @100°C, cSt ASTM D445 45.6 Performance Properties Image: Comparison of the state of the stat	Penetration	ASTM D217	310-340
Viscosity @ 100°C, cSt ASTM D445 45.6 Performance Properties Flash Point °F (°C) ASTM D92 520 (271) Fire Point °F (°C) ASTM D92 550 (287) Timken OK Load, Ibs ASTM D2509 55 Water Washout, % loss max ASTM D1264 6 4 Ball Wear, mm ASTM D2266 .50 4 Ball Wear, mm ASTM D2596 315 Rust Test, 1% Synthetic Sea Water ASTM D05959 Pass U.S. Steel Mobility, gm/min USS LT-37 - @ 77° F - 2574 @ 20° F - 106 Copper Corrosion ASTM D4048 1A Rust Test, A & B ASTM D665 Pass Biodegradable (meaning>60%) Pass Pass Biodegradablity, % OECD 201 >26,000 mg/l Daphnia (EC 50), 72 hr, mg/L OECD 202 >13,000 mg/l Daphnia (EC 50), 96 hr, mg/L OECD 203 >40,000 mg/l Not Bioaccumulative (Calculated value as per EPA standard) Pass -	Dropping Point °F (°C)	ASTM D2265	>350 (176)
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	Fish (LC 50), 96 hr, mg/L	OECD 203	>40,000 mg/L
	Not Bioaccumulative (Calculated value as per EPA standard)		Pass
Bio-based Content, % ASTM D6866 90	Bio-based Content, %	ASTM D6866	90

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

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APPROVALS / CERTIFICATIONS LOGOS









BIOBLEND