

Overview ▶ BioGrease EPIC HD utilizes the latest additive technology coupled with High Oleic Soy base oil to create a truly remarkable upgrade to our BioGrease HD. This new EPIC grease was formulated to provide high film strength, withstand high operating temperatures and maintain excellent stability. The high viscosity index of the base oil also provides new and improved load carrying capabilities and oxidation stability. BioGrease EPIC HD It is designed for heavy-duty use in a variety of industrial, mobile, hydro, agricultural, construction and marine applications.



BioGrease EPIC HD is formulated featuring our proprietary eSyn™ technology. Available in NLGI grades 1 and 2 and replaces our former BioGrease HD.

Typical Properties ▼

Property	ASTM Test Method	HD #1	HD #2
Product Code		BG23001	BG23002
NLGI Grade		1	2
Color		Amber	Amber
Penetration, unworked	D217	327	284
Penetration, worked 60 strokes	D217	329	286
Viscosity @40°C, cSt	ASTM D445	258	258
Viscosity @100°C, cSt	ASTM D445	52	52
Dropping Point, °C	ASTM D2265	216	216
Timken OK load (lbs)	ASTM D2509	55	55
Flash Point °F (°C)	ASTM D92	(325)	(325)
4 ball weld (kg)	ASTM D2596	400	400
4 ball wear average scar (mm)	ASTM D2266	0.48	0.43
4 ball wear, coefficient of friction	ASTM D2266	0.064	0.057
Rust	ASTM D1743	Pass	Pass
Rust, Seawater	ASTM D5969	Pass	Pass
Copper Corrosion	ASTM D4048	1B	1B
Oxidation stability (kPa)	ASTM D942	14 psi	14 psi
Water sprayoff @ 100° F (% sprayoff)	D4049	67	49.5
Mobility @ 150 psi (g/min)	SLTM-022		
	@ 0°F	9.22	4.44
	@ 20°F	107.4	54.6
	@ 40°F	332.5	159
	@ 60°F	576.7	412
	@ 77°F	1034.5	998
Water washout (mass % loss)	D1264		
	@ 79°C	1.3	5.5

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 value as per EPA standard)		Pass	Pass

Key Attributes / Approvals ▶



- VGPClassified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's 2013 U.S. Vessel General Permit (VGP)

See the Safety Data Sheet (SDS) for emergency, proper handling and disposal information.

Rev. BGEPIC HD-10302020