



ClareGuard BioMarine EP

Biodegradable marine grease for high load bearing applications.
NLGI 2

Features and Benefits

- Good thermal oxidative stability with excellent EP characteristics
- Good anti-wear
- Resistant to variation in temperature.
- No heavy metals or organophosphorus compounds.
- Highly biodegradable grease with low eco-toxicity to the marine environment
- Contains >75% renewable raw materials
- Excellent ambient temperature handling

EAL Compliance Statement

The Vessel General Permit Regulation 2013 (VGP) mandates the use of an Environmentally Acceptable Lubricant (EAL) for many applications, primarily where discharge to or contact with seawater is likely. The Environmental Protection Agency defines an EAL as not being sheen forming; containing at least 75% readily biodegradable components, with the remainder being non bioaccumulative; and meeting aquatic toxicity EC50 levels of at least 1000mg/l, tested against algae, arthropods and fish. Clareguard Bio-Marine EP grease meets these criteria, having been tested by accredited laboratories according to methods OECD301B, OECD201, OECD202 and OECD203, and we therefore certify that it is an Environmentally Acceptable Lubricant.

Typical Characteristics

Penetration	IP 50	265-295
Oil Separation (40°C, 18hrs)	IP 121	4% maximum
Emcor (3% NaCl)	IP 220	1,1
4 Ball Weld Load	IP 239	700kg
4 Ball Wear Scar	IP 239	0.5mm
Renewable Content	Carbon Source	>75%
Colour	Visual	Black/Grey
Appearance	Visual	Smooth
Temperature Range		-40°C to 120°C
Thickener Type		Complex Soap

Base Oil Characteristics

Base Oil Viscosity 40°C		45cSt
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