



Description

High performance EAL for enclosed gears.

Applications

- + CARTER BIO is a new generation high performance EAL lubricant developed for gear and bearing lubrication.
- + CARTER BIO is designed to replace mineral gear oils for gearboxes operating in environmentally sensitive areas.

Approvals

ZF PROPULSION, WÄRTSILÄ, HHI thrusters, SCANA.

Environmentally Acceptable Lubricants (EAL)

Specifications

- + CARTER BIO can be used when CKC/CKD (ISO 12925-1) or CLP (DIN 51517-3) mineral lubricant performance levels are requested.
- + Environmentally Acceptable Lubricant (EAL) for 2013 (VGP).

Features and Benefits

- + CARTER BIO has very good extreme pressure properties as premium mineral gear oil and a high scuffing load capacity ensuring good protection of gears operating under high load.
- + The synthetic base oils used combine good lubrication properties and a high oxidation stability. These base oils comply with the European Ecolabel criteria for biodegradability, renewable carbon content and for ecotoxicity.
- + CARTER BIO ensures high corrosion protection, even with sea water contamination, and provides lubrication advantages at both high and low temperatures compared to mineral oils.

Typical Characteristics

	Methods	Units	68	100	150	220	320
ISO Grade			68	100	150	220	320
Density at 15°C	ISO 3675	kg/m ³	950	967	960	965	967
Kinematic viscosity at 40°C	ISO 3104	mm ² /s	68	100	150	220	320
Kinematic viscosity at 100°C	ISO 3104	mm ² /s	10	14	22	29	38
Viscosity Index	ISO 2909	–	147	142	144	150	139
Flash Point (COC)	ASTM D 92	°C	> 240	> 240	> 240	> 240	> 250
Pour Point	ISO 3016	°C	-42	- 42	- 30	- 27	- 24
FZG failure stage	DIN 51 354/2	–	> 13	> 13	> 13	> 13	> 13
Foaming	ISO 6614	ml/ml	0/0	0/0	0/0	0/0	0/0

Characteristics of this chart are indicative typical values.

⚠ Handling, Health & Safety

Lubricants consisting of synthetic oils with specific additives. In normal conditions of use, these lubricants present no particular toxic hazard. All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin. Prevent any risk of splashing, and keep away from combustible materials. Store under cover and away from any risk of contamination.

A safety data sheet complying with current legislation is available at: www.quickfds.com and www.totallubmarine.com