CARTER BIO

High performance biodegradable lubricant for enclosed gear drives

Applications
Light to heavy duty gearboxes

- **Carter BIO** is a new generation of high-performance biodegradable lubricant developed for gear drives
- **Carter BIO** is designed to replace mineral gear oils for gearboxes operating in environmentally sensitive areas or for gears offering a risk of incidental discharges into the environment

Specifications
International specifications

- DIN 51517 Part 3 - CLP
- ISO 12925-1 category CKC/CKD

Approvals

- Meets the requirements of the main gearbox manufacturers

Advantages

- Very good extreme-pressure properties and high scuffing load capacity ensuring a good protection of gears operating under high load
- The synthetic base oils used are combining good lubrication properties and high oxidation stability. These base oils are fulfilling the European Ecolabel criteria for the Biodegradability, the Renewable carbon content and for the Ecotoxicity
- Biodegradability over 75% after 28 days (OECD 301B testing procedure)
- Superior film thickness and very high viscosity index ensuring outstanding lubrication compared to mineral oils
- High corrosion protection confirmed with sea water contamination

TYPICAL CHARACTERISTICS	METHODS	UNITS	Carter BIO				
			68	100	150	220	320
Viscosity at 40°C	ISO 3104	mm^2/s	68	100	150	220	320
Viscosity at 100°C	ISO 3104	mm^2/s	11	15	22	29	38
Viscosity index	ISO 2909	-	149	148	147	147	147
Density at 15°C	ISO 3675	kg/m^3	949	966	984	1000	1015
Open cup Flash Point	ISO 2592	°C	292	288	288	284	294
Pour Point	ISO 3016	°C	- 42	-42	- 42	- 39	- 36
FZG failure stage	DIN 51354/2	-	>13	>13	>13	>13	>13

Above characteristics are mean values given as an information

CAUTION: not compatible with polyglycol (PAG) based gear oils

TotalEnergies Lubrifiants
INDUSTRY & SPECIALTIES
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Carter BIO
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