



## Carter

The solution  
to maximize  
the performance  
of your gearboxes

Protection and reliability



**TotalEnergies**

# Summary

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- Your challenges  
Gear Oils range,  
special applications & booster
- Our solutions  
Spécifications & approvals  
Core ranges comparison
- The benefits offered  
by TotalEnergies Lubrifiants
- Five good reasons for choosing  
TotalEnergies Lubrifiants

# Gear Oils

## CORE RANGE

ADVANCED	<b>Carter XE</b> ISO VG 150-680 Synthetic formula for outstanding energy efficiency	<ul style="list-style-type: none"> <li>Reduce maintenance downtime</li> <li>Micropitting protection</li> <li>Extreme temperatures</li> </ul>
PREMIUM	<b>Carter SH</b> ISO VG 68-3200 Synthetic	<ul style="list-style-type: none"> <li>Reduce maintenance downtime</li> <li>Micropitting protection</li> <li>Extreme temperatures</li> </ul>
PRINCIPAL	<b>Carter EP &amp; XEP</b> ISO VG 68-3000 Mineral	<ul style="list-style-type: none"> <li>Severe conditions</li> <li>Micropitting protection</li> </ul>
ENTRY	<b>Carter</b> ISO VG 68-1000 Mineral	<ul style="list-style-type: none"> <li>Standard gear oil meeting ISO &amp; DIN requirements</li> </ul>



LIGHT TO HEAVY DUTY GEAR BOXES



WORM DRIVES AND BEVEL GEARS



SHOCK LOAD

## Your challenges

- **Reliability of equipment:** optimizing the life cycle and productivity of gearbox.
- **Difficult operating conditions:** limit the impact of contamination (dust, impurities, water, etc.), temperature and pressure variations.
- **Safety and sustainable production:** carry out your activities in complete safety while reducing the impact on the environment.
- **Reduce maintenance downtime:** reduce oil consumption and extend maintenance intervals.

- Extends drain interval
- Energy savings
- Heavy industries
- Mining or mineral industries

**Carter SG**  
ISO VG 100-1000  
Synthetic

- Reduce maintenance downtime
- Extreme temperatures

**Kassilla GMP**  
ISO VG 100-1500  
Mineral

- Solid additives (graphite and molybdenum disulphide)
- Very high EP properties

**Carter HD**  
ISO VG 220-320  
Mineral

- Outstanding EP properties to prevent welding
- Increase load carrying capacity

## Special applications

**Nevastane range**  
Food grade gear oils

- See dedicated brochure for this range

**Carter BIO**  
Synthetic esters  
Synthetic esters

- Biodegradable
- Environmentally Acceptable Lubricant (EAL)

**Carter WT range**  
ISO VG 320  
Synthetic

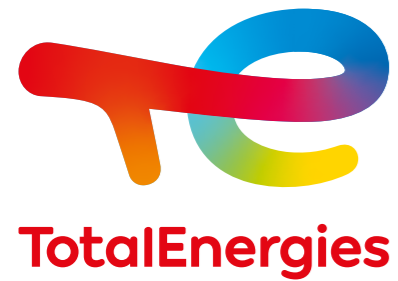
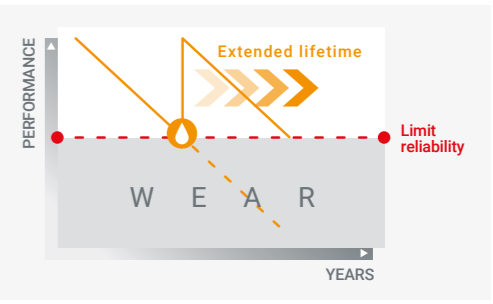
- Reduce maintenance downtime
- On-shore and off-shore wind turbines
- 10 years field test proven

## Gear oil booster

**GO Life extender**

- Reduce maintenance by extending your drain intervals

Post-treatment booster designed for Carter SH and WT. The booster can also be used with Carter EP, XEP and XE.



## Our solutions

TotalEnergies is constantly investing to develop better lubrication solutions:

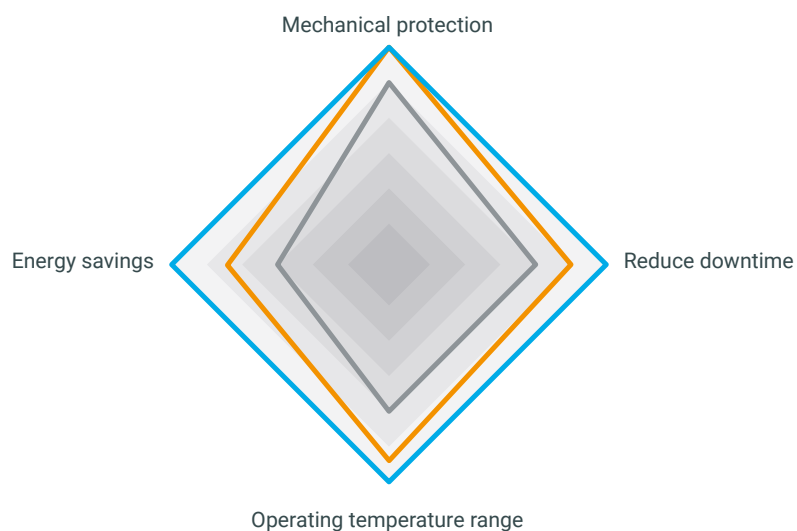
- Advanced oils with **optimum performance**.
- **A complete range** of lubricating solutions for your gear units operating in a **variety of conditions**.
- Products with **reduced impact on health and the environment**.

## Specifications and approvals

	Carter	Carter BIO	Carter EP	Carter XEP	Carter SG	Carter SH	Carter XE
ISO 12925-1	CKC/CKD	CKES	CKSMP/CKD	CKSMP/CKD	CTPG	CKSMP/CKD	CKSMP/CKD
Technology	Mineral	Synthetic esters	Mineral	Mineral	Synthetic	Synthetic	Synthetic
DIN 51517-3 CLP	✓	✓	✓	✓	✓	✓	✓
AGMA 9005 F16 – AS	✓	✓	✓	✓	✓	✓	✓
FLENDER			✓	✓		✓	Pending
ZF			✓			✓	Pending
SEW			✓			✓	Pending
CMD Gears			✓	✓		✓	✓

## Core range comparison





- ◇ Carter XE
- ◇ Carter SH
- ◇ Carter EP



# The **benefits** offered by TotalEnergies Lubrifiants

**LubAnac** provides you a full range of lube oil analysis, to allow you to anticipate and diagnose anomalies in the equipment. This solution is both preventive and corrective.



Thanks to LubAnac, you:

-  **Reduce** your operating **costs**.
-  **Anticipate and plan** maintenance operations to perform them at the **best time**.
-  **Optimize** drain intervals and **extend the lifetime** of your equipment.
-  **Improve the reliability and performance** of your equipment.

## **LubInsight Maintenance Planner, optimized maintenance software for your lubricants**

LubInsight Maintenance Planner allows you to boost your productivity through efficient maintenance planning.

Built on the expertise of our engineers, LubInsight Maintenance Planner offers you to:

-  **Increase efficiency** and savings of your maintenance management.
-  **Monitor lubricant parameters and analyses** with a single tool.
-  **Assert your quality and safety management** through management of lubricant documentation and critical points.





### A major player

With our production, supply chain and commercial presence in more than 160 countries, we deliver a full range of lubricants.

### Support and partnership

Thanks to local technical presence, we provide a high level of service to optimize your Total Cost of Ownership.

### References & OEMs

TotalEnergies Lubrificants cooperates with equipment manufacturers to create high-technology products for optimal performance and production of your machinery.



### Innovation & Research

TotalEnergies Lubrificants invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.

### Quality and environment

TotalEnergies Lubrificants ISO 9001 and 14001 certifications are the guarantee of a long term commitment to quality and environment. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.



# TotalEnergies



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Safety Data Sheets are available at [ms-sds.totalenergies.com](https://ms-sds.totalenergies.com)



TotalEnergies Industry Solutions