Decrease the number of costly operations required to lubricate your gearboxes

> Carter WT 320

GO^{*} life extender

_ubInsight LubAnac



Carter WT 320, experience its exceptional service life for yourself

Extend your drain interval to 10 years and improve the reliability of your gearboxes.

Carter WT 320 has demonstrated stellar performance over a long period of time. Designed to provide the optimum balance between **low ageing** and **gear** longevity, Carter WT 320 takes gearbox lubrication to a new level



GO^{*} life extender, boost your oil's performance

Your wind turbine has been operating for a very long time using a gearbox oil in which performance additives are now partially depleted. When combined with **Carter WT 320, GO life extender** helps prolong the service life of your lubricant whilst ensuring the smooth operation of your gearbox until the next scheduled oil change.

*GO: Gear Oil

LubAnac, customize the monitoring of your gearbox

TotalEnergies extensive experience in the monitoring of in-service gearbox oils has resulted in the development of LubAnac, a dedicated analysis for your gearbox. LubAnac incorporates specific standards to improve the diagnosis and anticipate operating faults:

- Infrared spectrum to assess the level of degradation and oxidation of your oil in service.
- Large iron particles content of over 5 microns to better identify wear level in your gearbox.

LubInsight maintenance planner, optimize your oil change strategy

Closely monitor your wind farms' condition with our lubrication software LubInsight maintenance planner and better manage your maintenance schedules.

- Plan your preventive, conditional and corrective maintenance operations.
- Incorporate your oil analyses directly
- and consolidate your diagnoses at different territorial scales.
- Analyze your all-in maintenance cost.
- Monitor your stock of lubricants and spare parts.

The combined LubAnac / LubInsight maintenance planner offering can be used for all lubricated wind turbine systems.

The

WIND+

concept



TotalEnergies, here for you!

Our application engineers are ready to assist anytime and help you put our products into use. TotalEnergies will also put you in contact with independent and innovative partners in both onshore and offshore wind turbine maintenance for more complex operations.

A major player

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

References & OEMs

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

good reasons for choosing **TotalEnergies** Lubrifiants

Quality and environment

TotalEnergies Lubrifiants 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



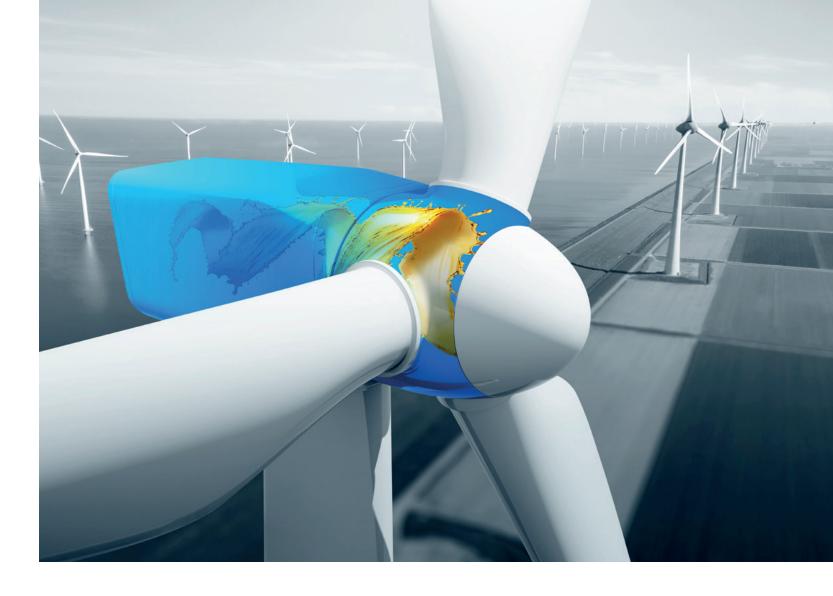
lubricants.totalenergies.com

Support and partnership

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

Innovation & Research

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



Wind energy lubricants

Optimizing renewable energy and equipment

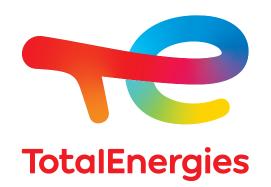


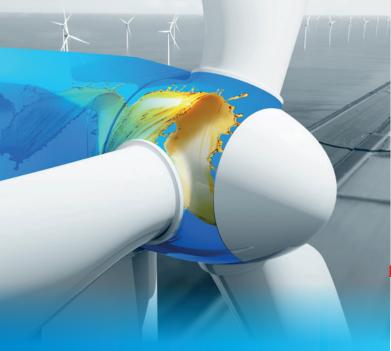


TotalEnergies Industry Solutions

ms.industry@totalenergies.com

Safety Data Sheets are available at ms-sds.totalenergies.com





Ensure your equipment's reliability for longer

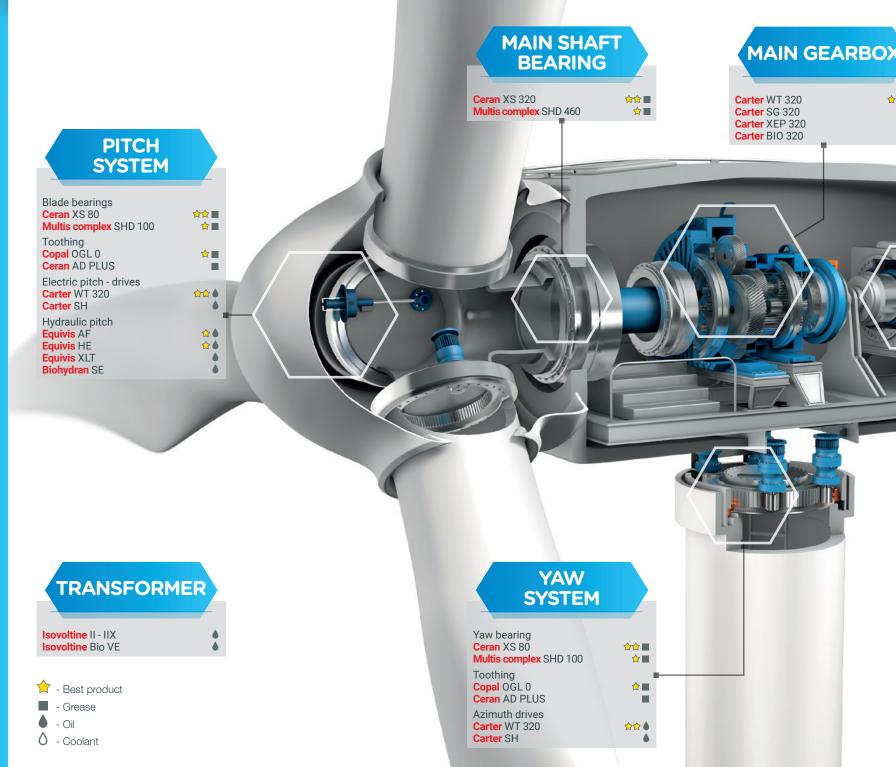
Increase your plant's lifetime by providing it with superior and continued protection.

- Prevent wear in all circumstances and reduce bearing failure.
- Regularly analyze your gearbox oil using our dedicated LubAnac service.

Improve your long-term competitiveness

Decrease your operating expenses by extending your maintenance cycles.

- Double the time between oil changes using our long-life oils.
- Optimize your oil change strategy with our LubInsight maintenance planner maintenance software and our GO life extender performance booster.
- Free yourself from the constraints of the Lithium market by adopting the grease technology Ceran[®].



Wind energy must become more competitive

Committed to better energy, TotalEnergies provides **an innovative solution** for companies in the wind sector keen **to reduce their operating costs.**

Discover the WIND+ concept

TotalEnergies helps wind farm operators and O&M service providers to extend maintenance cycles even further by providing an **overall lubrication solution.**

Need a breath of fresh air?

Put your trust in TotalEnergies teams to generate **increased productivity.**

Maximize the output of your facilities

Make use of the slightest breeze and increase efficiency.

- Prefer "high-efficiency" lubricants that reduce friction coefficients and minimize deposit build-ups in circuits.
- Team up with an industrial company involved in university wind power research.

Your safety, our priority

Take no risks with your plant, your staff and your environment.

- Optimize your performance thanks to our products that are approved and recognized by manufacturers.
- Lubricate your equipments with less harmful formulas that contain no heavy metals or carcinogenic and reprotoxic substances.

