



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.





ANAC WIND, customize the monitoring of your gearbox

TOTAL's extensive experience in the monitoring of in-service gearbox oils has resulted in the development of ANAC WIND, a dedicated analysis for your gearbox.

ANAC WIND 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.



LIFE EXTENDER WT, 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, LIFE EXTENDER WT helps prolong the service life of your lubricant whilst ensuring the smooth operation of your gearbox until the next scheduled oil change.





TIG 6, optimize your oil TTG(6) change strategy

> Closely monitor your wind farms' condition with our lubrication software TIG 6 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 ANAC/TIG 6 offering can be used for all lubricated wind turbine systems.



TOTAL, here for you!

Our application engineers are ready to assist anytime and help you put our products into use. TOTAL 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 150 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

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



Quality and environment

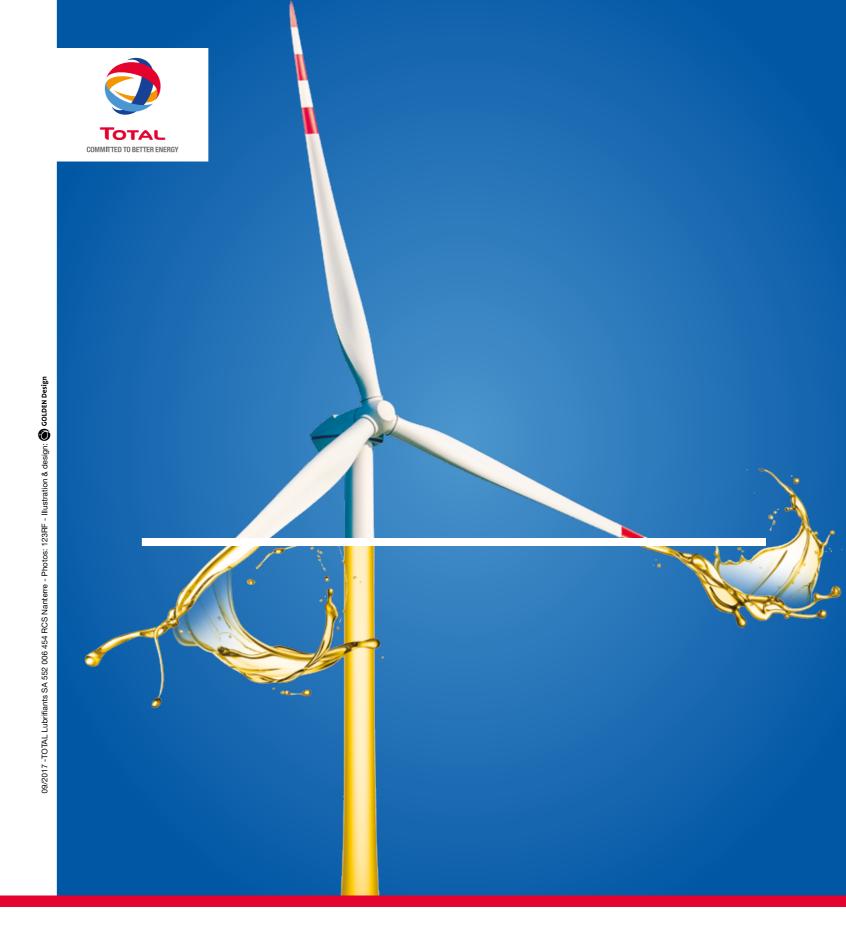
TOTAL Lubricants ISO 9001 certification is the guarantee of a long term commitment to quality. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.



Safety Data Sheets are available at www.quickfds.com www.industrial.lubricants.total.com

Innovation & Research

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





WIND POWER

TOTAL, a breath of fresh air for your productivity





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 ANAC WIND 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 TIG 6 maintenance software and our LIFE EXTENDER WT performance booster.
- Free yourself from the constraints of the Lithium market by adopting the grease technology **CERAN**®.

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.



Wind power must become more competitive

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

Discover the WIND+ concept

TOTAL 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 TOTAL teams to generate increased productivity.

MAIN SHAFT MAIN GEARBOX **COOLING SYSTEM** BEARING **CERAN XS 320 CARTER WT 320 COOLELF SUPRA MULTIS COMPLEX SHD 460** CARTER SG 320 **CARTER XEP 320** PITCH SYSTEM Blade bearings CERAN XS 80 **MULTIS COMPLEX SHD 100** Toothing COPAL OGL 0 ☆■ **CERAN AD PLUS** Electric pitch - drives CARTER WT 320 ☆☆ 🌢 CARTER SH Hydraulic pitch EQUIVIS HE HIGH **EQUIVIS XLT GENERATOR BEARING** MULTIS COMPLEX SHD 100 LOCKING & BREAKING SYSTEMS YAW TRANSFORMER **SYSTEM EQUIVIS AF** EQUIVIS HE **EQUIVIS XLT** ISOVOLTINE II - IIX Yaw bearing **CERAN XS 80 MULTIS COMPLEX SHD 100** Toothing COPAL OGL 0 **GUY-WIRES*** - Best product **CERAN AD PLUS** & CABLES - Grease Azimuth drives - Oil **CARTER WT 320** ☆☆▲ **CARTER SH** 0 - Coolant *Guy wires-supported towers.

CARTER WT 320 Advanced gearbox oil designed to last more than 7 years* Fully synthetic PAO gear oil Oxidation Load resistance CARTER WT fresh oil CARTER WT after 7 years Oil change limit + **BENEFITS** > Extended drain interval > Enhanced gear longevity > Improved equipment

