

Decrease the number of costly operations required to lubricate your gearboxes



**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.



**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.



**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.



**TIG 6, optimize your oil 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.

**Innovation & Research**

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

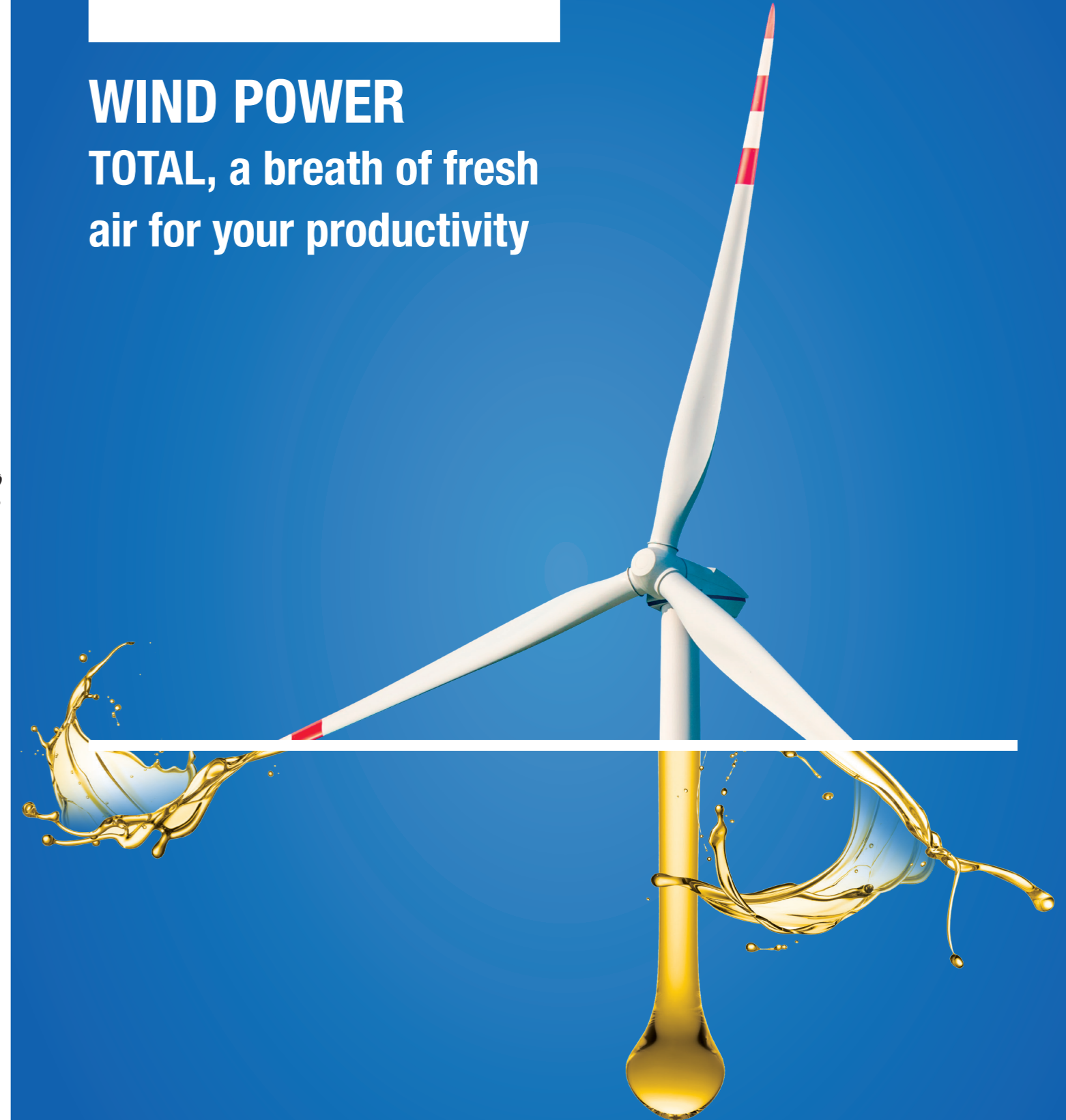
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Safety Data Sheets are available at [quickfds.com](http://quickfds.com)  
[lubricants.total.com](http://lubricants.total.com)



**WIND POWER**  
**TOTAL, a breath of fresh air for your productivity**

12/2018 - TOTAL Lubricants SA 552 006 454 RCS Nanterre - Photos: 123RF - Illustration & design: GOLDEN design





## 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.

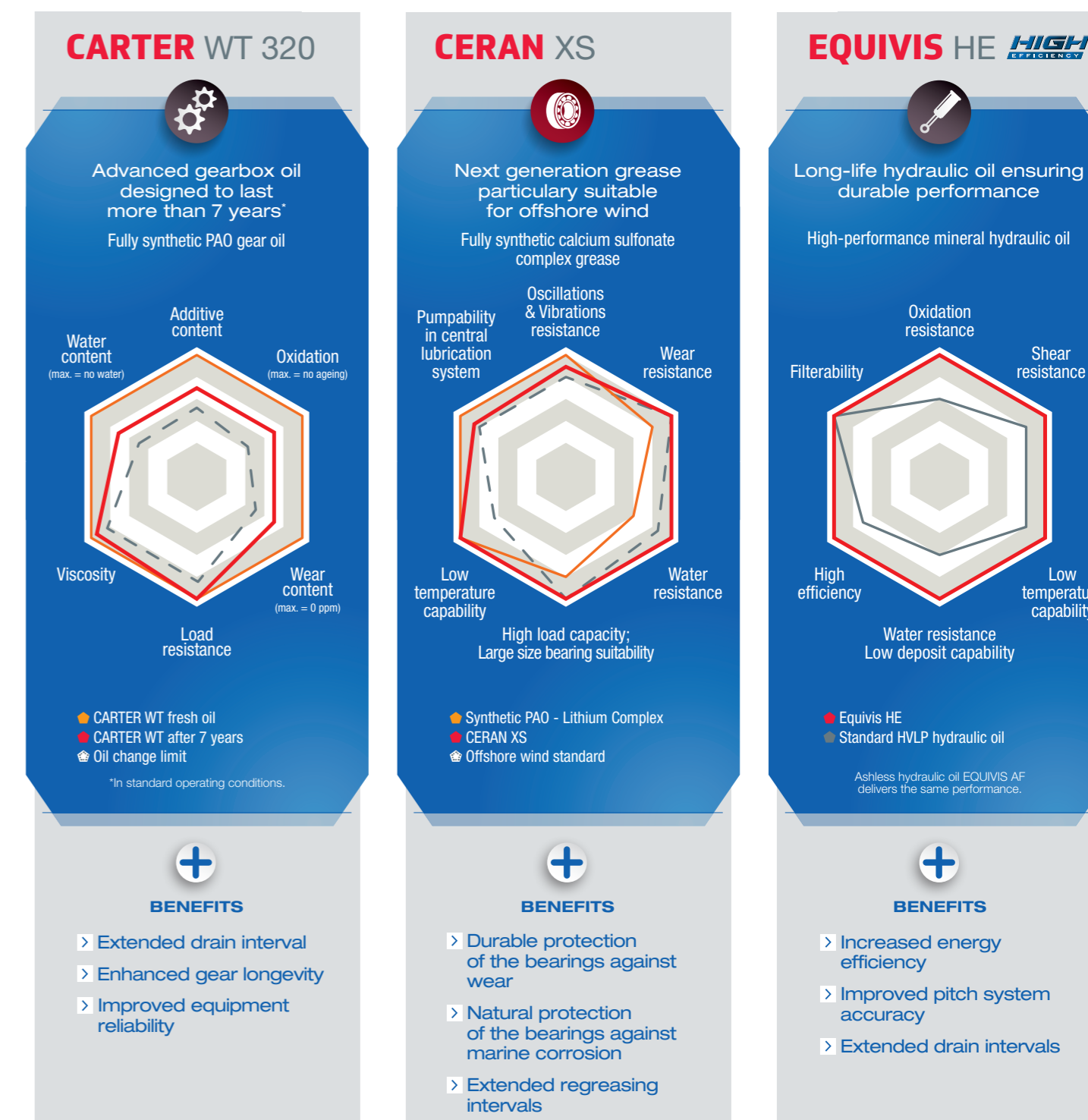
- Prefer "high-efficiency" lubricants that reduce friction coefficients and minimize deposit build-ups in circuits.
- Team up with an industrial company involved in university wind power research.

## 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.

## Our most advanced lubricants



## Wind power must become more competitive

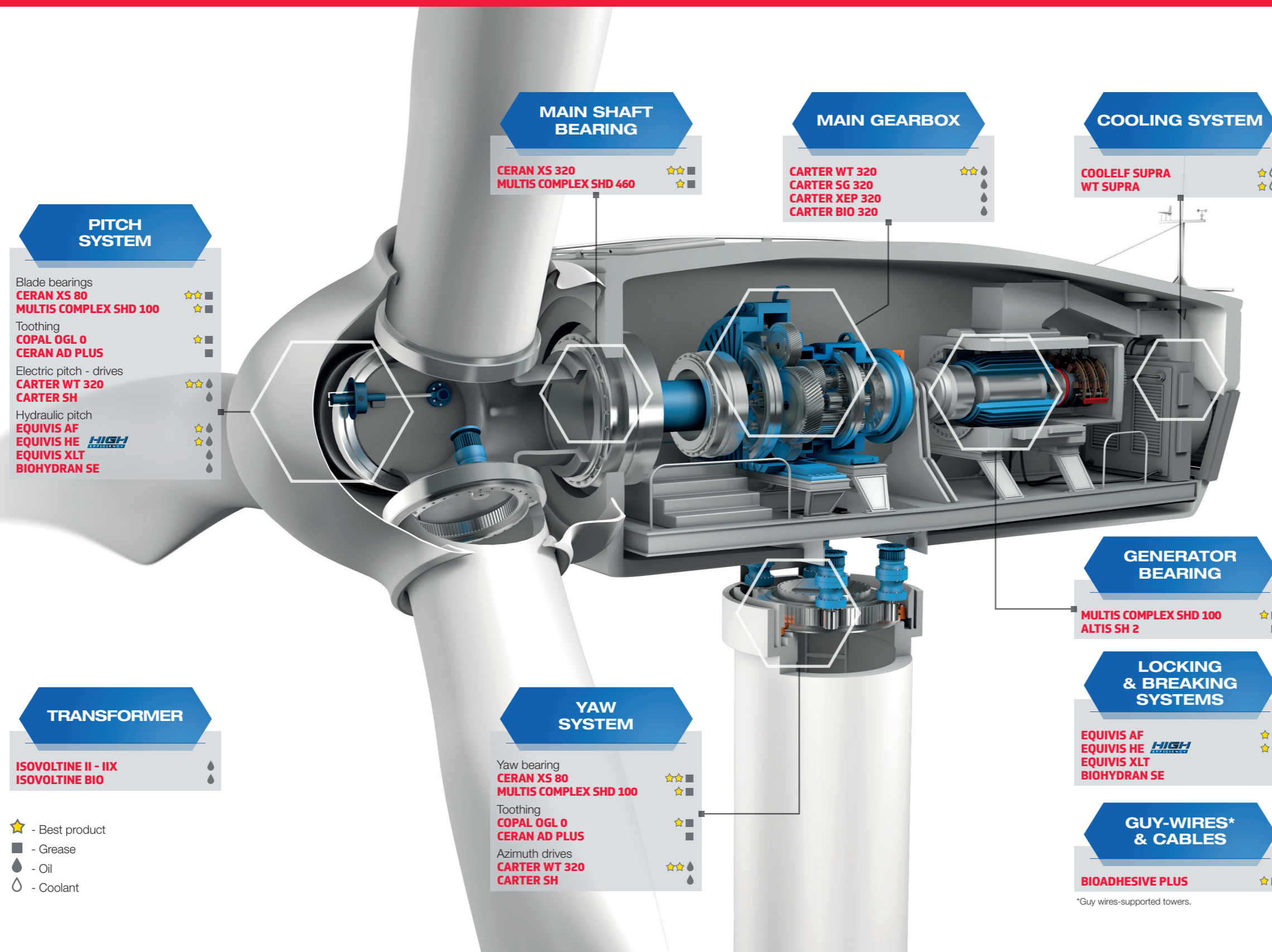
Committed to better energy, TOTAL provides an **innovative solution** for companies in the wind sector keen to **reduce their operating costs**.

## 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**.



- ★ - Best product
- - Grease
- - Oil
- ☼ - Coolant

\*Guy wires-supported towers.