

# Our world revolves around you

Advanced solutions to keep  
your blades turning



**Mobil**<sup>™</sup>

# Mobil™ wind turbine lubrication

## Supporting the energy transition



# Solutions for an evolving industry

To sustain maximum power output from your turbines, you must reduce unscheduled — and costly — downtime for maintenance and repairs. And you must meet this challenge with equipment in ever more extreme conditions of temperature, load and water contamination. That's why we offer products and services designed specifically for the challenges you face in the rapidly evolving wind industry.



## Advanced Products

Our lineup of Mobil™ synthetic oils and greases helps protect your critical components and enhance wind turbine availability\*.



## Exceptional Services

We complement these lubricants with hands-on guidance and application expertise from our skilled engineers to help you handle your toughest challenges.



## Bespoke Lubrication-as-a-Service Solutions

Our state-of-the-art products and services harmonize in a complete solution that can help your operation attain new levels of safety, environmental care \*\* and productivity.

**APQP@Wind**  
Company Member 2023

\* Results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

\*\* Visit [mobil.eu](http://mobil.eu) to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

# Advanced Products

To help you meet the ongoing challenges of your wind operation, our engineers work closely with equipment builders to gain insights into their requirements. Our formulators then use these insights to build outstanding lubricants that are well supported by builder approvals.

| Application                             | Product   | Product features and potential benefits*  |
|---|---|---|
| Main gearbox                            | Mobil SHC™ Gear 320 WT<br>Mobilgear SHC™ XMP 320  | <ul style="list-style-type: none"> <li>▪ Superb wear and corrosion protection</li> <li>▪ Anti-foam protection</li> <li>▪ Stable during water contamination</li> <li>▪ Helps to improve equipment productivity</li> <li>▪ Helps to reduce unscheduled downtime and maintenance</li> <li>▪ Helps to extend gear, bearing and oil life</li> </ul>                    |
| Gearbox Flushing                        | Mobil™ Flush 320  | <ul style="list-style-type: none"> <li>▪ Designed for flushing and removing contaminants</li> <li>▪ Ensuring long term performance of Mobil SHC™ Gear 320 WT</li> <li>▪ Use with any incumbent wind turbine gear oil</li> </ul>   |
| Main, pitch, yaw and generator bearings | Mobil SHC™ Grease 460 WT<br>Mobil SHC™ Grease 461 WT<br>Mobil SHC™ Grease 681 WT<br>Mobil SHC™ Grease 68 IPC<br>Mobilith SHC™ 100 | <ul style="list-style-type: none"> <li>▪ Flexible component placement</li> <li>▪ Long regreasing interval helps control service cost</li> <li>▪ Exceptional high- and low-temperature performance</li> <li>▪ Excellent extreme pressure and antiwear properties</li> <li>▪ Low starting and running torque</li> <li>▪ Resistant to water contamination</li> </ul> |
| Hydraulic system                        | Mobil SHC™ 500 Series<br>Mobil DTE 10 Excel™ Series   | <ul style="list-style-type: none"> <li>▪ Ideal for high-pressure and tight-clearance systems</li> <li>▪ Helps to extend oil, filter and component life</li> <li>▪ Powerful antiwear protection</li> <li>▪ Highly shear stable</li> <li>▪ Wide temperature range</li> <li>▪ Resists deposit formation</li> </ul>   |
| Ancillary gearboxes                     | Mobil SHC™ 600 Series   | <ul style="list-style-type: none"> <li>▪ Promotes operational reliability and energy efficiency**</li> <li>▪ Helps to extend oil life</li> <li>▪ High- and low-temperature capability</li> <li>▪ Resists oxidation, sludging and wear</li> <li>▪ Low traction coefficient</li> </ul>  |
| Open gear (diluent)                     | Mobiltac™ 375 NC  | <ul style="list-style-type: none"> <li>▪ Excellent wear protection</li> <li>▪ Low component replacement and maintenance costs</li> <li>▪ High viscosity</li> <li>▪ Helps protecting gear teeth and machine elements</li> </ul>  |
| Open gear (non-diluent)                 | Mobilgear™ OGL 007  | <ul style="list-style-type: none"> <li>▪ Excellent wear protection</li> <li>▪ Helps to reduce environmental impact</li> <li>▪ Advanced, semifluid lubricant</li> <li>▪ Extreme pressure additives and graphite for heavy loads</li> </ul>   |
| Top treat solutions for main gearbox    | Mobil Xtra™ YMP WT<br>Mobil Xtra™ Defoam WT<br>Mobil Xtra™ Viscosity WT<br>Mobil Xtra™ EP WT                                      | <ul style="list-style-type: none"> <li>▪ Expertise solutions helping customers to continue to protect their investment whilst helping to avoid challenging oil change outs.</li> <li>▪ Contact Mobil representative for further details and the guidance on product usage</li> </ul>  |

\* Results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

\*\* The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared to conventional (mineral) reference oils of the same viscosity grade in circulating and gear applications. The technology used allows up to 3.6 percent efficiency compared to the reference when tested in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and application.

# Mobil Serv<sup>SM</sup> services

To achieve peak productivity, count on Mobil Serv<sup>SM</sup> services — a full suite of service solutions designed to help you reduce unscheduled downtime, maintenance costs and equipment issues. These services include Wind Turbine Gearbox Flush and Fill, as well as startup and cleanliness guidance, developed specifically for the wind industry.



## Application expertise

Through Mobil Serv services, our world-class engineers deliver invaluable hands-on direction, using unsurpassed application expertise to help you achieve your goals in safety, environmental care and productivity.



## Lubricant analysis

To help you monitor lubricant and equipment condition, and avoid unscheduled breakdowns and costly repairs, we offer Mobil Serv<sup>SM</sup> Lubricant Analysis, which includes a program specifically tailored to wind turbine applications.

# Advancing Productivity™ for wind power

A successful wind operation today is measured by more than productivity alone. You also have safety goals to achieve, and you're making efforts to reduce your environmental footprint. Our synthetic lubricants and service programs are designed to help you in these three critical areas, which we call Advancing Productivity.

## Safety

Long oil and equipment life, as well as powerful wear protection, can help reduce maintenance and the risks associated with employee-equipment interaction, always a concern on wind turbines, especially in remote and challenging areas.

## Environmental Care\*

Mobil Serv<sup>SM</sup> Lubricant Analysis coupled with long-life lubricants can help enhance oil service intervals, which helps reduce oil disposal.

## Productivity

Powerful lubricant performance, even at low and high temperatures, can help enhance power generation by promoting wind turbine availability through robust wear, rust and corrosion resistance.



**Advancing  
Productivity™**

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# High performance lubrication for wind turbines

The difference is in the detail



## Pitch Bearing

Mobil SHC Grease 460 WT  
Mobil SHC Grease 461 WT  
Mobil SHC Grease 68 IPC **New**



## Main Shaft Bearing

Mobil SHC Grease 460 WT  
Mobil SHC Grease 461 WT  
Mobil SHC Grease 681 WT  
Mobilith SHC 007



## Gearbox

Mobil SHC Gear 320 WT

**10 year warranty**



Mobilgear SHC XMP 320

## Top treat solutions

Mobil Xtra WT Series **New**

## Flushing Oil

Mobil Flush 320  
Use for oil conversion only

## Generator

Mobilith SHC 100

## Pitch Gear

Mobil SHC Gear Series  
Mobil SHC 600 Series



## Yaw Bearing

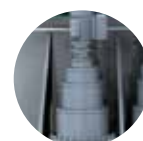
Mobil SHC Grease 460 WT  
Mobil SHC Grease 461 WT  
Mobil SHC Grease 681 WT  
Mobil SHC Grease 68 IPC **New**

## Hydraulic System

Mobil SHC 500 Series  
Mobil DTE 10 Excel 32

## Open Gear

Mobilgear OGL 007 / 461



## Yaw Gear

Mobil SHC Gear Series  
Mobil SHC 600 Series

# ExxonMobil

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 Mobil Lubricants Europe

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**Health and Safety**

Based on available information, these products are not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Material Safety Data Sheets (MSDSs) are followed. MSDSs are available upon request through your sales contact office or via the Internet. These products should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment.