

Mobil SHC™ Gear 320 WT

Fully synthetic gear oil for wind turbines



With turbines operating in more remote areas and extreme conditions, handling higher loads in increasingly compact gearboxes, Mobil SHC™ Gear 320 WT oil helps deliver many benefits including:

- **Outstanding protection in a wide range of temperatures and operating conditions, on- and offshore**
- **Excellent foam control, even after filtration**
- **Excellent resistance to oil degradation at high temperatures to ensure long, trouble-free life**

Approved by the world's leading OEMs

Mobil SHC Gear 320 WT has a wide range of Equipment Builder approvals which helps mixed fleet owners streamline their lubricant inventories.

For the latest approvals list, please refer to the product data sheet on mobil.eu and consult your equipment builder manual for specific lubricant recommendations

Key benefits



Long drain intervals can help generate more electricity at lower cost



Exceptional protection, even in extreme conditions, helps limit maintenance

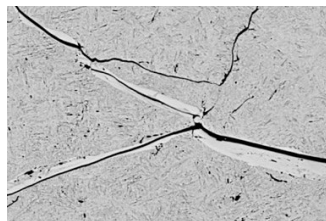


Resistance to micropitting and scuffing helps enhance equipment life

Mobil SHC Gear 320 WT does not contribute to WEC

Around 60% of wind turbine high speed bearing failures are reported to be caused by White Etching Cracking (WEC), a subsurface fatigue damage (cracks) that can occur without warning. This can result in premature bearing failure and can even require gearbox replacement, causing unscheduled downtime.

Following a study to evaluate the impact of different lubricant technologies, DNV-GL - the world leading certification body - concluded that Mobil SHC Gear 320 WT, as the first wind turbine gear oil to obtain their certification, does not contribute to the oil related effects of WEC.



Cleanliness

Mobil SHC Gear 320 WT meets or exceeds all lube oil requirements of IEC 61400-4 and in particular the cleanliness requirements of -/14/11 max. which helps reduce wear damage from hard particles and can help reduce the need for filtration on initial filling.

Helps you generate
MORE ELECTRICITY at LOWER COSTS

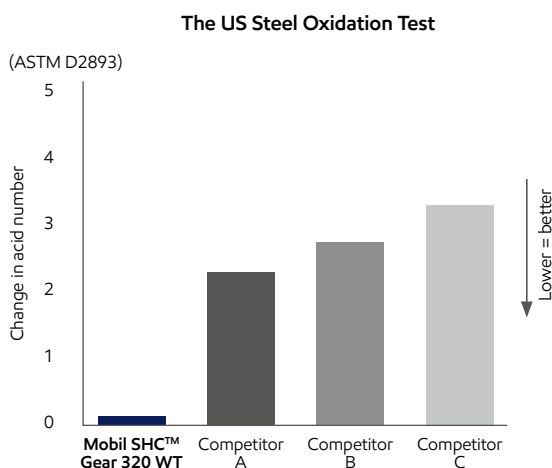
Mobil SHC™ Gear 320 WT

Long drain interval - 10-year warranty

Long drain intervals can help lower maintenance costs and downtime while enhancing turbine availability and production. We're so confident in the long-lasting durability of

Mobil SHC™ Gear 320 WT turbine gear oil that we offer a ten year warranty¹.

The US Steel Oxidation Test (ASTM D2893²) evaluates oxidative stability – a key factor in determining lubricant durability. In this test, oil is heated to 150°C and air is bubbled through it. The chart shows that Mobil SHC Gear 320 WT gear oil achieves best-in-class performance compared with three competitive oils.



The right choice for offshore wind applications

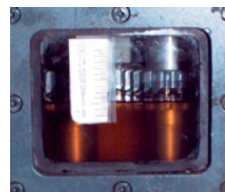
According to the GESAMP hazard evaluation procedure, Mobil SHC Gear 320 WT is non-toxic to aquatic organisms.

In addition, the product is not classified as an environmental hazard under GHS and European Union CLP regulations and has a Wassergefährdungsklasse of WGK-1.

Reduced unit shutdown and spills thanks to outstanding foam protection

Excessive foam can impact the reliable production of power by shutting down units due to high oil level alerts or overflows.

Mobil SHC Gear 320 WT, as shown in flender foam tests, has outstanding low foam performance. This helps reduce oil consumption and maintenance costs through extended oil life and drain intervals. Even when heavily filtered, Mobil SHC Gear 320 WT remains well within the fresh oil specifications.



Before test



After test

Step-out technology ensures optimum productivity

Mobil SHC Gear 320 WT contains innovative proprietary additive technology designed to offer new standards of resistance against micropitting fatigue, rust and corrosion.

Fortified with low sulfur, extreme pressure technology, Mobil SHC Gear 320 WT shows a very low tendency for sludge and deposit formation, helping reduce maintenance and allowing you to generate more electricity at lower costs.



Mobil SHC™ 320 WT



High Performance Synthetic WT gear oil competitor



Advancing Productivity™

Safety

Long oil and equipment life as well as optimum wear protection can help reduce maintenance and the risks associated with employee–equipment interaction.

Environmental Care³

Long drain intervals help control the risk of spills. Long oil life can help reduce the need for product and packaging disposal.

Productivity

World-class lubricant performance can help enhance wind turbine production by reducing unscheduled downtime to improve turbine availability.

¹ Subject to the terms and conditions of the warranty, the company will bear any costs required and adequate to repair and/or replace any equipment damaged as a result of a lubricant defect or malfunction.

² ASTM D2893 Modified in accordance with ISO 12925-1:1996 CKT specification.

³ Visit 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.

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