Mobil SHC™ Gear 320 WT
Fully synthetic gear oil for wind turbines

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 the 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 that obtained 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.

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Helps you generate
MORE ELECTRICITY at LOWER COSTS

For current approvals, please refer to the product data sheet on mobil.com/industrial.
Mobil SHC™ Gear 320 WT

**Long drain interval - 10-years 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 warranty for ten years.

**The US Steel Oxidation Test** (ASTM D2893) 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 US Steel Oxidation Test](chart)

(Mobil SHC Gear 320 WT vs Competitors A, B, C)

**Reduced unit shutdown and spills thanks to outstanding foam protection**

Excessive foam can impact on 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 which 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.

**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.

![Safety chart](safety-chart)

**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 Care**

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.

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