Mobil SHC[®]

Performance by **ExonMobil**

Mobil SHC[™] Gear 320 WT

Synthetic wind turbine gear oil



Energy lives here

With turbines located in more remote areas and extreme conditions, and handling higher loads in increasingly compact gearboxes, Mobil SHC[™] Gear 320 WT oil helps deliver:

- Outstanding protection in a wide range of temperatures and conditions onshore or offshore, dry or wet
- Extraordinary performance at low temperatures
- Excellent foam control and trouble-free wet filterability
- Non-toxicity to aquatic life per IMO 493/02

Industry leading



Key benefits



Long drain intervals help reduce downtime



Exceptional protection, even in extreme conditions, helps limit maintenance



Resistance to micropitting and scuffing helps enhance equipment life

Typical properties*

.)Proci Proportion	
Mobil SHC Gear Series	320
ISO Viscosity Grade, ISO 3448	320
Viscosity, ASTM D 445	
cSt@40°C	320
cSt @ 100°C	42.1
Viscosity Index, ASTM D 2270	187
Pour Point, °C, ASTM D 97	-45
Flash Point, °C, ASTM D 92	256
Specific Gravity @ 15.6°C kg/l, ASTM D 4052	0.854
FZG Micropitting, FVA Proc No. 54	
Fail Stage	>10
GFT-Class	High
FZG Scuffing, DIN 51534 (mod) A/8.3/90, Fail Stage	14+
Rust protection, ASTM D665, Sea Water	Pass
Water Separability, ASTM D 1401, Time to 40/37/3 @ 82°C, minutes	15
Foaming Characteristics, ASTM D 892, Seq. II, Tendency/Stability, ml/ml	0/0

*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.

*Typical properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit exxonMobil. or ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil is occurrent is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

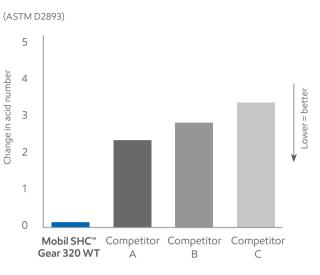
Mobil SHC™ Gear 320 WT

Long drain intervals

Long drain intervals can help lower maintenance costs and downtime, while maximizing 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 limited warranty for seven 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 achieves best-in-class performance compared with three competitive oils.

The US Steel Oxidation Test



Performance test summary

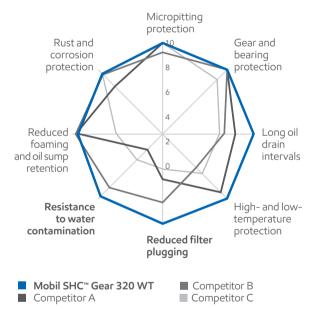
In extensive testing of the most crucial performance and protection categories, Mobil SHC Gear 320 WT gear oil has exceeded leading wind turbine oil competitors. Unlike the competitors, which exhibit areas of weakness, uniquely balanced Mobil SHC Gear 320 WT gear performs well in all categories.

Specifications

Mobil SHC Gear 320 WT meets or exceeds the requirements of:

- AGMA 9005-E02 (at appropriate viscosity grade)
- DIN 51517 Part 3 (CLP)
- ISO 12925-1 Type CKD





Industrial Lubricants

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 Care⁺

Mobil SHC[™] Gear 320 WT is not classified as hazardous under GHS and EU regulations and not expected to be harmful to aquatic organisms. Long oil life can help reduce the need for product and packaging disposal, and long drain intervals can help control the risk of spills.

Productivity

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

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

¹Visit mobilindustrial.com 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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