



Mobil SHC™ Grease 460 WT

High-performance synthetic grease for wind turbines



At a Glance

- Ideal for lubricating main, pitch and yaw bearings in wind turbines.
- Wide temperature range suited to extreme conditions.
- Helps contribute to long equipment life.
- Working closely with OEMs contributes to cutting-edge formulation.

Proven protection in key wind turbine applications

Mobil SHC™ Grease 460 WT is scientifically engineered to meet or exceed the demanding requirements for severe wind turbine applications at extreme temperatures. The balanced formulation of Mobil SHC Grease 460 WT makes it the ideal choice for lubricating main, pitch and yaw bearings in wind turbines.

Innovative design for exceptional performance

Mobil SHC Grease 460 WT combines the unique features of synthesized hydrocarbon-based fluids with those of an advanced lithium-complex thickener. This state-of-the-art formulation helps contribute to excellent low- and high-temperature performance (-40°C to 150°C; -40°F to 302°F) as well as to powerful structural stability and resistance to water. A carefully selected proprietary additive system helps provide outstanding wear protection along with strong rust and corrosion inhibition.

Designed to help control costs

The low internal friction and high natural viscosity index of the base fluids offer the potential for low-temperature starting and running torque and pumpability. This superb grease also contributes to long bearing life and is suitable for use with either manual or centralized greasing systems — with the overall aim of helping to control maintenance costs and enhance profitability.

Preferred by equipment builders worldwide

We work with Original Equipment Manufacturers during product development to ensure that our lubricants are formulated to deliver extraordinary performance in continually evolving industrial equipment designs. Around the world, builders of wind turbines and their components recognize Mobil SHC Grease 460 WT for its cutting-edge technical engineering, and many consider it as the first-fill product.



Advancing Productivity™



Safety

Innovations in grease formulation and manufacturing provide Mobil SHC™ 460 WT with multi-purpose capabilities and a wide operating temperature range, which can minimize the number of products to be transported to the turbine, helping mitigate potential risk of employee injury.



Environmental Care

The excellent wear protection and structural stability offered by Mobil SHC Grease 460 WT can help lessen environmental impact by lessening disposal of worn equipment and waste grease.



Productivity

Mobil SHC Grease 460 WT can help minimize downtime and maintenance costs for potentially enhanced productivity by addressing the severe environmental stresses of wind turbine operation through robust false-brinelling protection and superb wear, rust and corrosion resistance.

Mobil SHC™ Grease 460 WT

Typical properties†

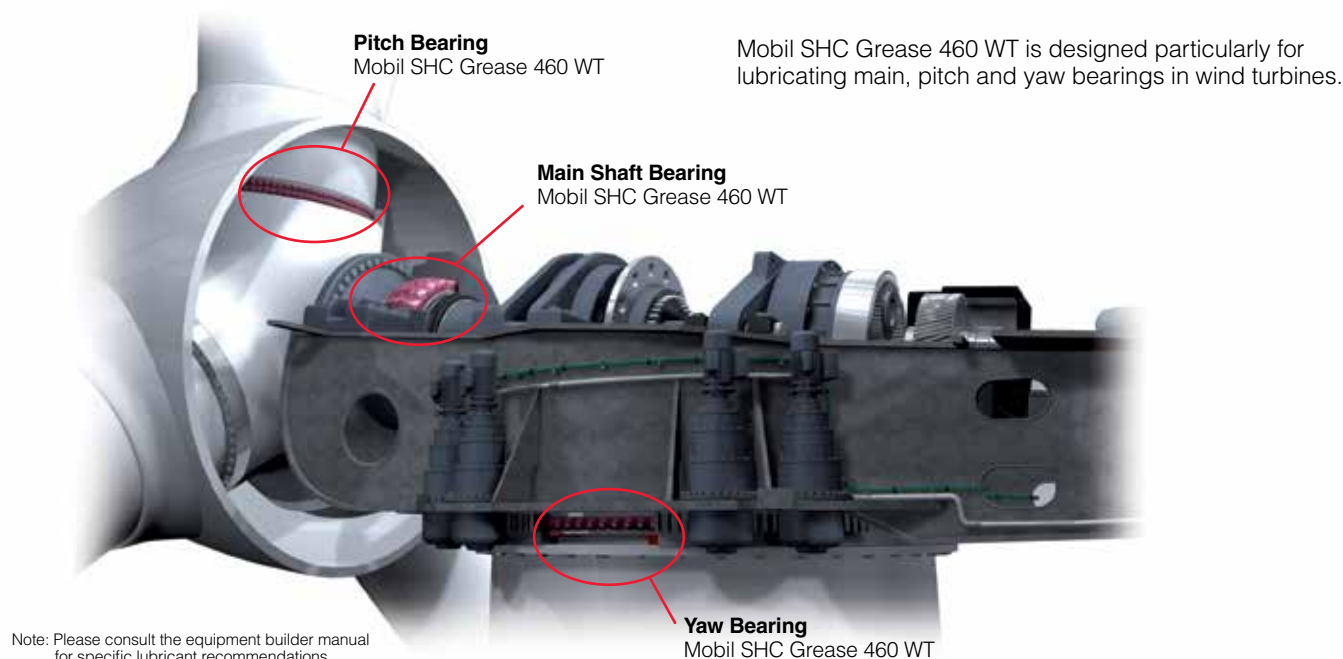
Test	Mobil SHC Grease 460 WT
NLGI Grade	1.5
Thickener Type	Lithium Complex
Color, Visual	Red
Penetration, Worked, 25°C, ASTM D 217	305
Dropping Point, °C, ASTM D 2265	255
Viscosity of Oil, ASTM D 445 cSt @ 40°C	460
4-Ball Weld, ASTM D 2596, Load, Kg	250
Water Washout, ASTM D 1264, Loss at 79°C. % wt	10
Rust Protection, ASTM D 6138, Distilled Water	0,0
Corrosion Protection, ASTM D 1743, Rating	Pass
FAG FE9 A/1500/6000, High Temperature Bearing Life, 140°C, DIN 518221-2, F50, hrs	150
FAG FE8, Bearing Wear Protection, DIN 51819; 500 hrs, 75 rpm, 80 kN, 38°C, Tapered Roller Bearing	
Roller Wear, mg, V50	37
Cage Wear, mg, V50	17
FAG FE 8, Bearing Wear Protection, DIN 51819; 500 hrs, 7.5 rpm, 80 kN, 80°C, Angular Contact Roller Bearing	
Roller Wear, mg, V50	0
Cage Wear, mg, V50	0

Specifications and approvals

Mobil SHC™ Grease 460 WT meets or exceeds the requirements of:

DIN 51825:2004-06

KPHC1-2N-40



†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 www.exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil or ExxonMobil. Nothing in this document 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.

For more information on Mobil SHC™ Grease 460 WT and other Mobil-branded industrial lubricants and services, contact your ExxonMobil sales representative or visit our website at mobilindustrial.com.

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDSs are available upon request through your sales contact office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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