

Do XXL wind turbines need traditional seals?

Operators of large size wind turbines appreciate reliability and leakage-free performance. Based on our findings, traditional sealing solutions for XXL dimensions do not fulfill these needs. This also comprises standard finger spring type of seals with their enormous range of preload at large shaft deflection.

How long does a wind turbine seal last?

An operational expectancy of 98 percent over a working life of 20 years, 24/7, makes for an extremely dynamic environment where reliability is paramount. Seals for wind turbines need to provide low friction, long life, zero leakage and easy installation, with maximized meantime between maintenance being a key requirement.

Why should you choose Trelleborg sealing solutions for wind turbines?

Seals for wind turbines need to provide low friction, long life, zero leakage and easy installation, with maximized meantime between maintenance being a key requirement. Trelleborg Sealing Solutions contributes to effective operation of hydraulics, our products withstand rigors on land and offshore installations.

Which rotary seals are best for wind power applications?

Trelleborg offers one of the most extensive ranges of rotary seals on the market including Radial Oil Seals, the rubber V-Ring[®], Mechanical Face Seals and the Turcon[®]; Varilip[®]; PDR. Highlighted here are two of the most important seals for wind power applications. Full details of the rotary seal range can be found in the rotary seals catalog.

What rotary seals do you need for a yaw bearing?

Large diameter rotary seals are needed to effectively seal the main bearing and yaw bearing. - A split TRJ radial oil seal maintains effective lubrication of the bearing and is supplied with pins for onsite installation. RME is suitable for large applications and is joined onsite after installation.

What gearbox oil should a wind turbine use?

Preventing this type of bearing damage will require a move away from very active and aggressive EP additives. The ultimate gearbox oil for wind turbine application should have the thermal stability of a top-tier hydraulic oil combined with the EP properties of current gear oils.

Large diameter rotary seals are needed to effectively seal the main bearing and yaw bearing. - A split TRJ radial oil seal maintains effective lubrication of the bearing and is supplied with pins for onsite installation. - The unique, spliced V ...

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