

Challenge

Background

The Pulp and Paper industry is under pressure to reduce costs. They deal with large, critical rotating equipment that is predominantly sealed with packing and is therefore maintenance intensive.

A paper mill in Sweden is seeing a short Mean Time Before Repair (MTBR) on their Oxygen Reactors and would like to aim for a packing MTBR of at least two years. Currently they are not able to reach this goal.



Oxygen Reactor requiring longer MTBR.

Solution

Product

The customer decided to install **Chesterton 377 CarbMax™ Packing** on two of their Oxygen Reactors.

Chesterton 377 CarbMax Packing is made from high tensile strength, continuous filament carbon yarns that are braided into a high density packing which has very low relaxation after the initial installation.

The packing has high thermal conductivity that allows it to run cool by dissipating frictional heat away from the dynamic sealing surface.



Chesterton 377 CarbMax Packing.

Results

Increase Reliability

Chesterton 377 CarbMax Packing was installed in May 2021 and almost a year later there were no gland adjustments after start up. The target of reaching two years of MTBR looks promising.

By not having to retighten the gland, the customer did not have to shut down the plant. In addition, the low leakage helps to keep his plant tidy and provides him cost savings on maintenance.



Running for almost one year without gland adjustments.