

Challenge

Background

A large pulp and paper mill experienced challenges with white water pumps transferring pulp at 1.5% consistency from the couch pit. The pumps were previously equipped with a dual seal, but MTBR was still no more than a few months. The pumps runs at a pressure of 3 barg (43.5 psig) and at a temperature of 65°C (149°F).



Chesterton Connect Sensor monitoring discharge pressure and bearing temperature.

Solution

Product

A **Chesterton® 1510 Single Cartridge Seal** installed to replace the original double seal with a small flush. To monitor the seal and pump operation, a **Chesterton® Connect™ Sensor** was installed to measure discharge pressure, temperature, and equipment vibrations.

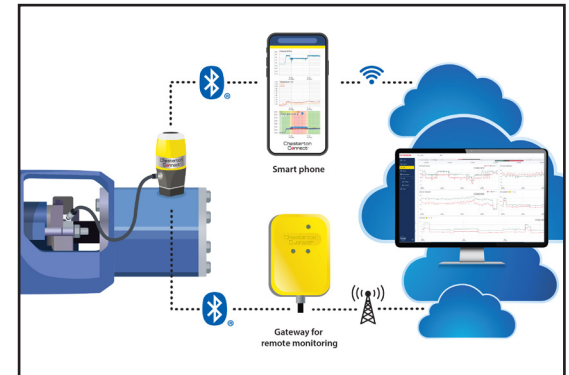


Chesterton 1510 Cartridge Seal installed on a centrifugal pump.

Results

Increased Reliability

The Chesterton 1510 Seal ran reliably for the first three months at which point the seal failed. The **Chesterton Connect Sensor** data showed that failure was due to current operating procedures starting against a closed valve. The customer was able to address this issue in the procedures to avoid future failures and plans to install more **1510 Seals with Chesterton Connect Sensor**—to monitor all seals.



Chesterton Connect System provides 24/7 seal monitoring through the Connect Cloud.