

Challenge

Background

A waste management plant in Sweden runs a heavy-duty centrifugal pump to process its slurry. Despite installing a robust mechanical seal, the pump's reliability was not satisfactory. The seal failed.

A Chesterton distributor installed a **SprialTrac™** environmental controller to clean the seal chamber but the seal still failed. Something was clearly not right with the process, but nobody could provide an answer.

Solution

Product

The local Chesterton representative recommended a **Chesterton Connect™** sensor, a retrofitted **Chesterton 155 Mechanical Cartridge Seal** 45 mm size, and further protected by a **SprialTrac** active throat bushing.

Scope of Work

To monitor the process parameters in the seal chamber to understand the causes of repeated seal failures.

Results

The Chesterton Connect was set to monitor the seal 24/7 and revealed during the night shift, when switching off between pumps the operator often forgot to switch on the flush water/barrier water.

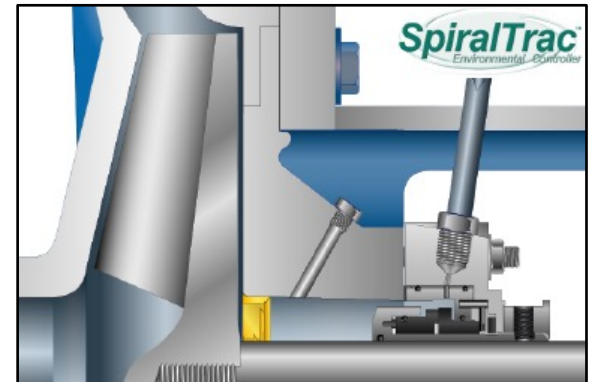
Based on these findings, the staff was able to make corrections to the work schedule, increasing overall reliability. The pump is running successfully without failures.



Chesterton Connect attached to slurry pump.



Chesterton 155 Seal with SprialTrac and Chesterton Connect.



API Plan 32 flush.