

Challenge

Background

A mixer OEM was experiencing high-visibility seal failures at a key pharmaceutical customer where numerous additional mixers were to be purchased. The concern was that the seal failures could be associated with the mixer manufacturer and multi-million dollar mixer orders could be lost.



Mixer was experiencing short seal life.

Solution

Product

After many downtime hours, labor costs, seal failure expenditures, and manufacturing losses the OEM and their customer elected to use two **Chesterton Connect™ Intrinsically Safe (IS) Certified Sensors** and a **Gateway** to help identify the problem.

A **Chesterton Connect IS Certified Sensor** was installed on a problematic mixer as well as a new seal. A second **Chesterton Connect IS Certified Sensor** was also installed on another mixer. A standard **Chesterton Connect Gateway** was installed outside of the hazardous area to automatically send the measured parameters to the Chesterton Connect Cloud for 24/7 remote monitoring and notifications.



Chesterton Connect IS Certified Sensor.

Results

Improved Productivity

Prior to the sensor installation, the operators felt that the mixers were operated properly and that the batch ingredients were being loaded at equal portions (not too many solids without enough liquids).

Once the **Chesterton Connect IS Certified Sensors** were installed, repeated and constant vibration alerts were sent to the engineering manager's phone the first evening. The operators discovered that they may have been starting the mixers prior to proper liquid levels.

The **Chesterton Connect Sensor + Cloud** notifications helped identify the issue within the mixer operation.



Chesterton Connect data helped solve the seal failure problems.