Efficient 24/7 Monitoring of Pump Stations with Chesterton Connect

Water and Wastewater Industry
Chesterton Connect™
Case Study 007 Equipment Monitoring

Challenge

The top public water utility in Italy is running hundreds of centrifugal pumps to provide potable water to many municipalities.

One of these pumping stations is running six double-ended, multistage centrifugal pumps sealed with mechanical packing. The site does not have a cabled monitoring system or 24/7 oversight. Management was seeking a simple solution to monitor the health of the pumps.

Solution

A Chesterton Connect™ sensor with power-up cap was installed to focus on vibration trends.

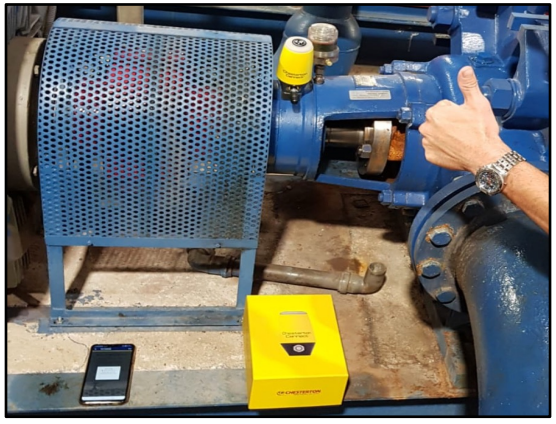
Scope of Work: Monitor the vibration and surface temperature data.

Using the Chesterton Connect sensor and mobile app, the team was able collect vibration trends and peaks on the equipment.

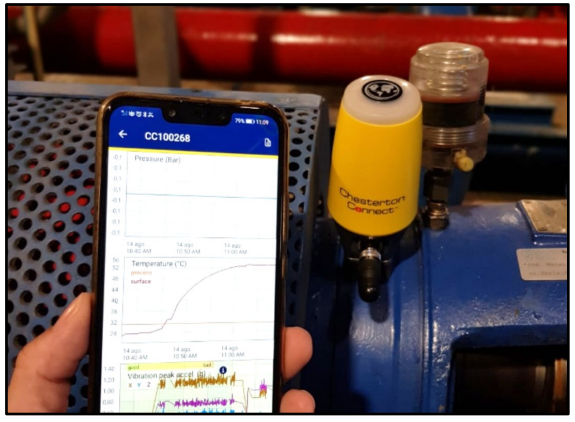
Results

The customer has been able to monitor the pump's operating trends 24/7 at a very efficient cost and easy installation. The historical data provided by the Chesterton Connect sensor has helped create a baseline for the equipment condition.

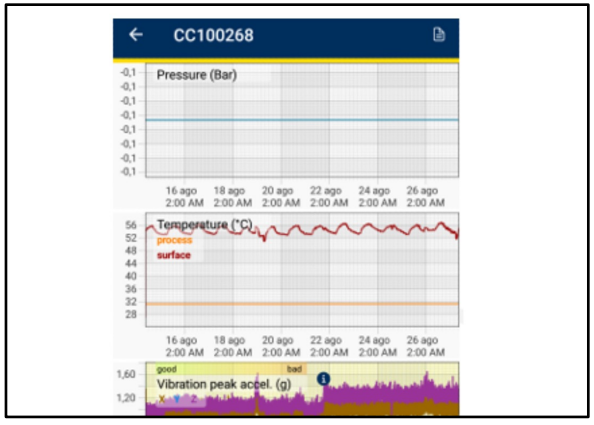
The first reports have shown that the equipment is running within the limits, including some peaks during nighttime.



Chesterton Connect installation overview.



Chesterton Connect Sensor synchronized with Chesterton Connect mobile app.



Pump report extracted.

A.W. Chesterton Company
860 Salem Street, Groveland, MA 01834 USA

EN351010
03/21