

NVMS delivers permanent monitoring solution for critical refrigeration assets



Challenge

- || The critical refrigeration compressor at a large food processing facility relied on intermittent Vibration Analysis collected by a consultant during their systematic routes. The customer was aware that this was not an ideal situation as failure could result in spoilage and unwanted downtime.

Solution

- || Our team scoped and delivered a permanent solution to monitor these critical assets by installing accelerometers, cables and a vbOnlinePRO Simultaneous 12-channel vibration monitor.
- || The permanently mounted accelerometers and cables were selected to suit the rugged environment and specific needs identified
- || Once installed and commissioned the sensor signals were verified using a calibrated shaker and double checked with a portable vibration data collector.
- || The acquired machine vibration data was connected via Modbus™ over ethernet to the plant historian, for alert and alarming functionality. This allowed operators to view asset health trending data and alarm history.

Highlights

- || During commissioning the site electrical lead viewing dynamic data noticed that one of the screw compressors had a high vibration and was instantly identified for further investigation. This enabled the business to mitigate a potential failure.
- || The team identified further scope to grow the install base and are looking at staff training and adding the diagnostic software platform which will provide greater visibility across the facility.