

RELIABILITY SUCCESS STORIES

A good example of a failure that is not easily detectable.

CONDITION MONITORING CATCH

Machine Sentry Fixed MSF2 sensors are in place on pump units at a customers production plant. The sensors have detected increased vibrations on a pump, caused by broken bolts.



THE CHALLENGE

This pump is in the basement which is a restricted area due to high pressure hydraulic oil pumps that are located there.

The failed pump is critical to production, pushing hot water through the system. All production stopped when the broken pumps were identified.



OUR APPROACH

The pump has been monitored since 2022, the basement is restricted area and so a Machine Sentry Gateway is uploading the data directly into the Machine Sentry cloud with the VG Reliability team carrying out a monthly analysis of the data. In Summer 2023 a slight increase in the trend was visible.

At the beginning of November the trend increased significantly.



OUR FINDINGS

During our periodically analyses we took note of the increasing trend. During a routine site visit the attending engineer also checked the pump and found the foundation bolts had failed.



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This is the kind of approach that will help us all drive forward to a more reliable and predictable operation of our plants.

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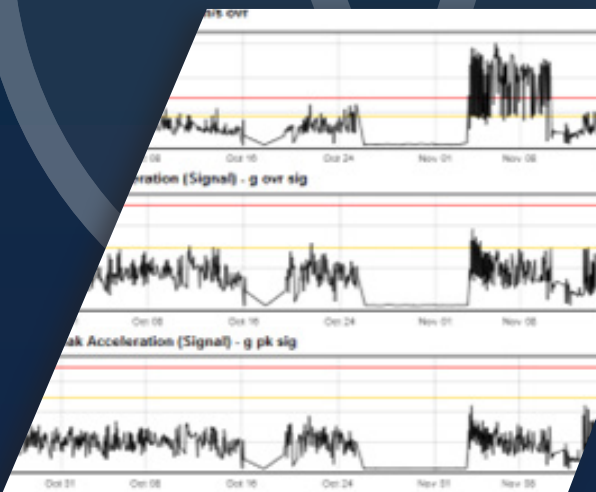
THE SOLUTION

Arrangements were made to have an engineering team attend repair and re-align the e-motor to the pump leaving it in full working order.



FOLLOW UP

The pump remains on the continuous monitoring plan and so monthly analysis of the collected data will continue. Any future changes to the trend will be identified.



PROJECT SCOPE & KEYWORDS

CLIENT	Trespa International
LOCATION	Weert in the Netherlands
INDUSTRY	Production
PROCESS	Pump used for hydraulic press
EQUIPMENT	E-motor Pump (hot water)
PRODUCTS	MSF sensors with Gateway
SERVICE	Remote analysis Shaft alignment

KEYWORDS

ASSET CONSULTANCY

TROUBLE SHOOTING

VISUAL INSPECTION

PUMP FAILURE

MACHINE SENTRY

CONTINUOUS MONITORING

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