

Success Story: Wireless Monitoring Solutions for Paper Mills



Introduction

CTC's distribution partners, VKT, were commissioned to perform condition monitoring services at a paper mill in Sweden. VKT elected to pilot CTC Connect Wireless Vibration Monitoring Solutions paired with Viking Al MultiViz software to remotely monitor a critical gearbox.

Overview



Location: Paper Mill, Sweden

Software Integration: Viking Al MultiViz

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Sensor & Gateway: WS301 Series ConnectSens[™] Wireless Sensor located 75 m (246 ft.) away from ACCESS360 ConnectBridge[™] Wireless Gateway



WS301 Series + MH214-3A



Application: Input shaft of gearbox operating at 1495 RPM



Mounting Method: Magnet mounted using CTC's MH214-3A

Operating Environment: 40 °C (104 °F) with daily high pressure washdowns



Duration of Case Study:



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Results



CTC Connect Wireless Hardware paired with Viking AI software was successful in detecting high vibration levels indicating a shaft alignment problem, resulting in damage to the coupling. The detection was automatically done by the software without any manual threshold settings or input of machine information! The **WS301 Series ConnectSensTM Wireless Sensor** presented no issues with prolonged exposure to high temperatures and presented no signs of water ingress from the washdowns.

After VKT warned the plant maintenance team about this issue, the plant elected to continue running the machine for several more days until a shutdown could be planned. VKT advised changing the load while the machine was running, and then ultimately replacing the coupling during shutdown. Once the machine was shut down and the coupling was replaced, visual inspection proved the insights provided by the data collected via CTC Connect Wireless Hardware and analyzed through Viking Al MultiViz Software were correct.



Visual Inspection



