

# Bulletin Semeq

## Success Case



Shiftable Saw



Gearbox



Since the last annual outage (October 2023) where we carried out the online installation project, we have been monitoring the Shiftable Saw, being: 3 sensors on the gearbox and 2 sensors on the motor, and with a custom setup to carry out measurements in the same condition every time. Using the OPC trigger the gateway sends a signal to the sensor informing the exact moment to perform the measurement, the moment when the bar is being cut. We were able to identify the fault in the input shaft bearing, the trend shows the deterioration of the bearing's outer race. Below we can see in the images the trend curve of the equipment, the spectrum used for diagnosis with the failure frequencies, and after a week, noise began to appear in the spectrum indicating the evolution of the failure. We issued DR 00131. Maintenance was planned and they decided to change the gearbox.

