



Customer Use Case

Condition Monitoring with AI

Condition Monitoring on conveyors (International Airport)

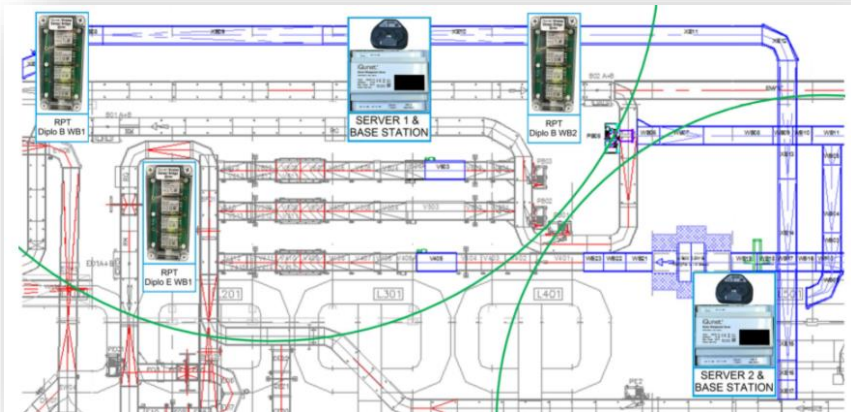
- Wireless Vibration monitoring (motor + gearbox + chain)
- Wireless Current waveform monitoring – MCSA (Var. Speed Drives)

iQunet.® Wireless Setup

Sensor Base Station



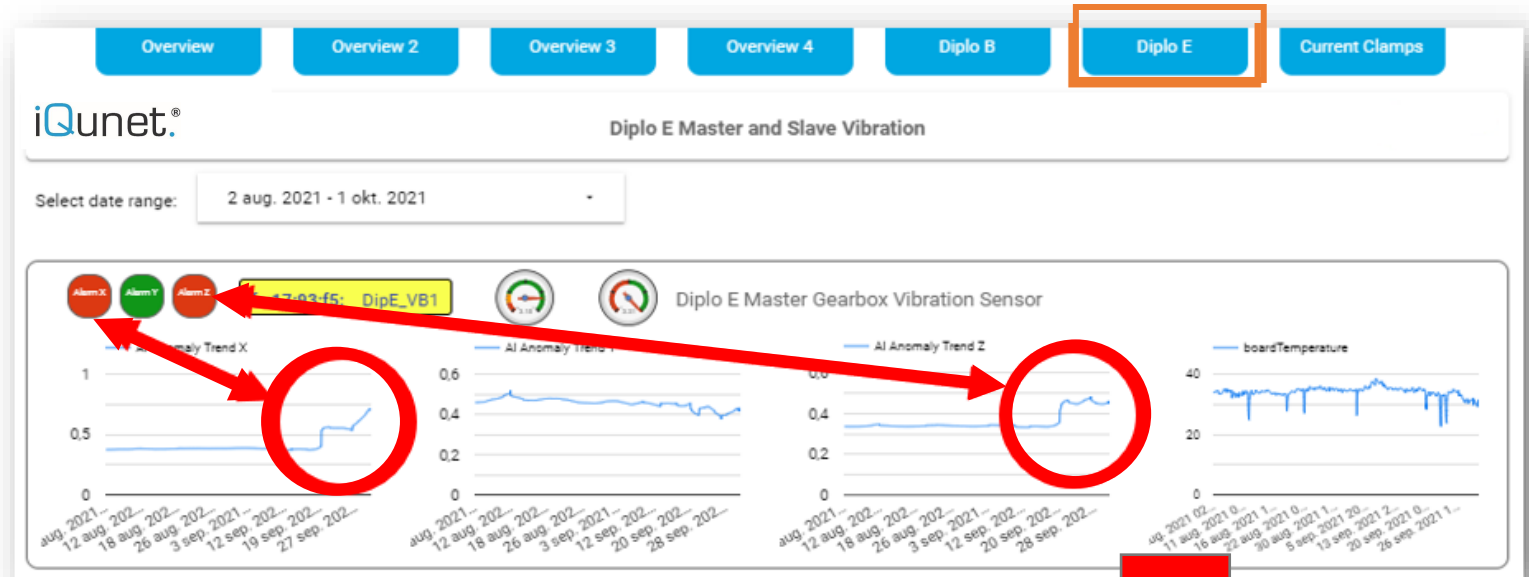
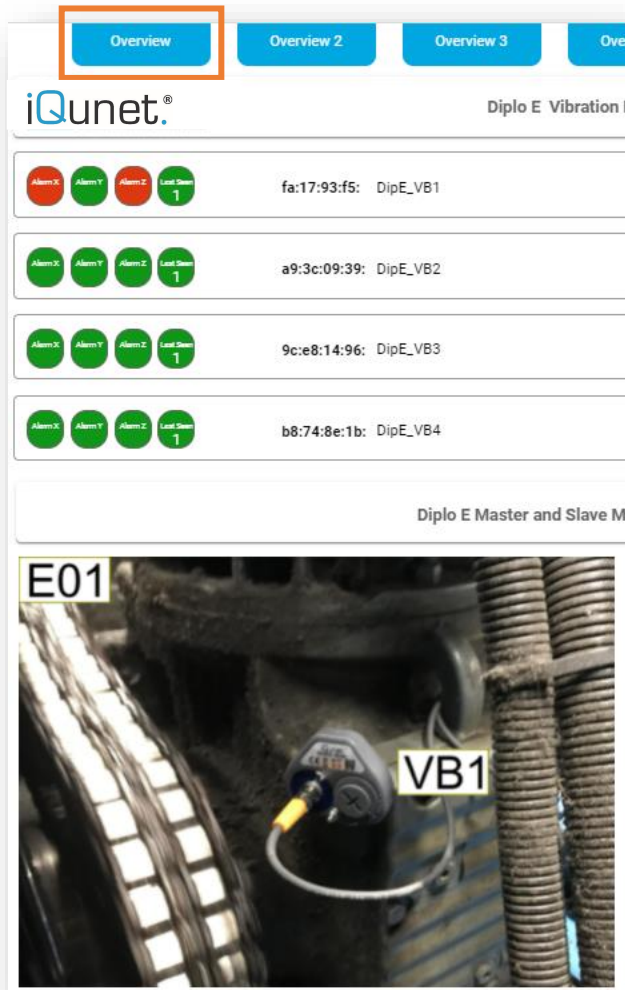
iQunet Edge Server



Wireless Bridge (Current Clamps)

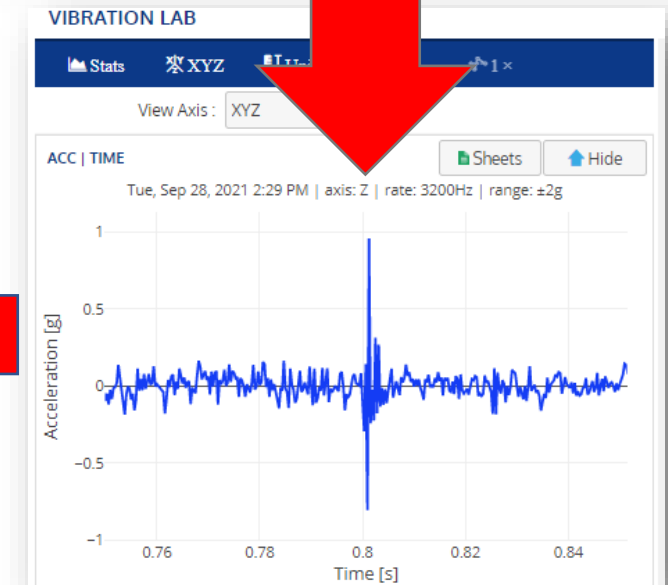


iQunet.® Vibration Monitoring

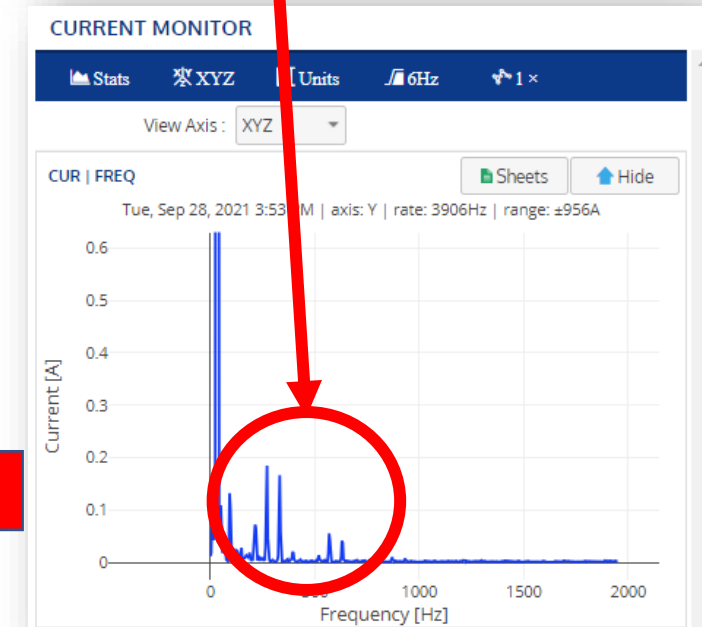
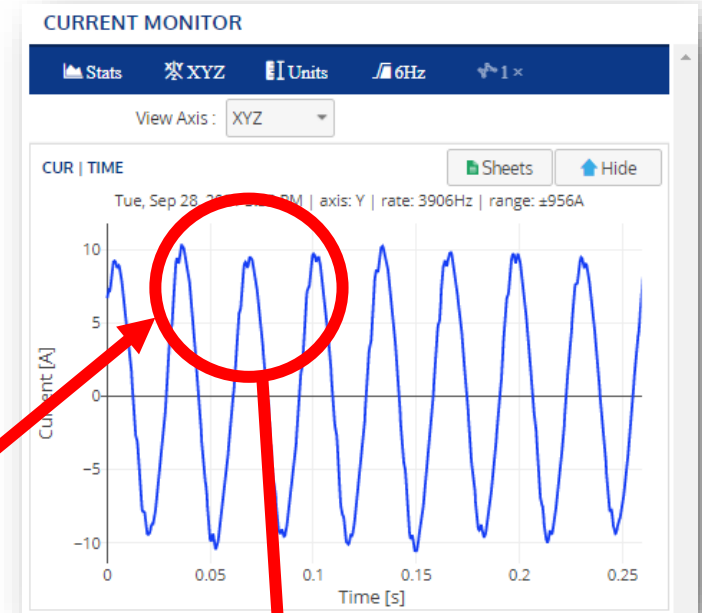
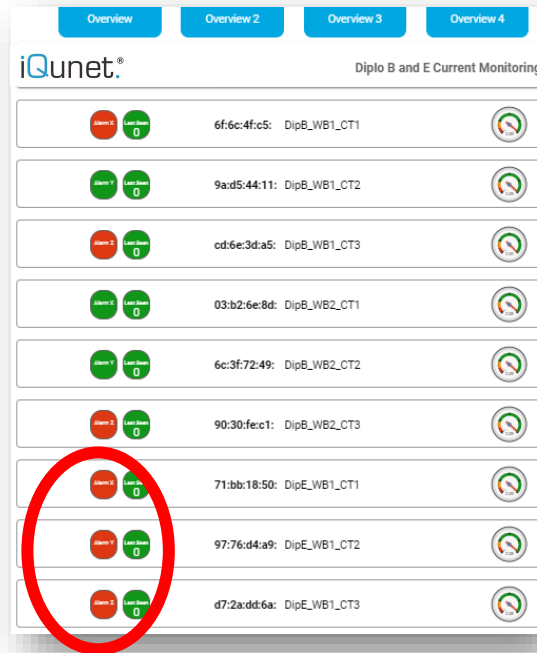
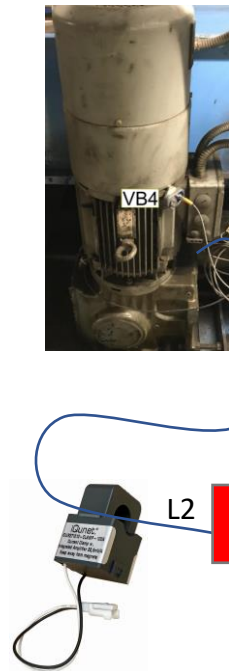


Impact detected (early warning)

- Recommended actions:
 - Check chain links
 - Check sprocket teeth
 - Lubricate and check change
- Follow behaviour to exclude gearbox inside teeth damage
- Follow up anomaly trend graphs



iQunet.® Wireless Motor Current Monitoring



Motor Current [A] harmonics detected

- Recommended actions:
 - Follow up anomaly trend in time
 - Follow up harmonics in freq. domain
 - If quick sustainable increase, prepare for motor repair

iQunet.® Anomaly Monitor (“engine” behind the dashboards)

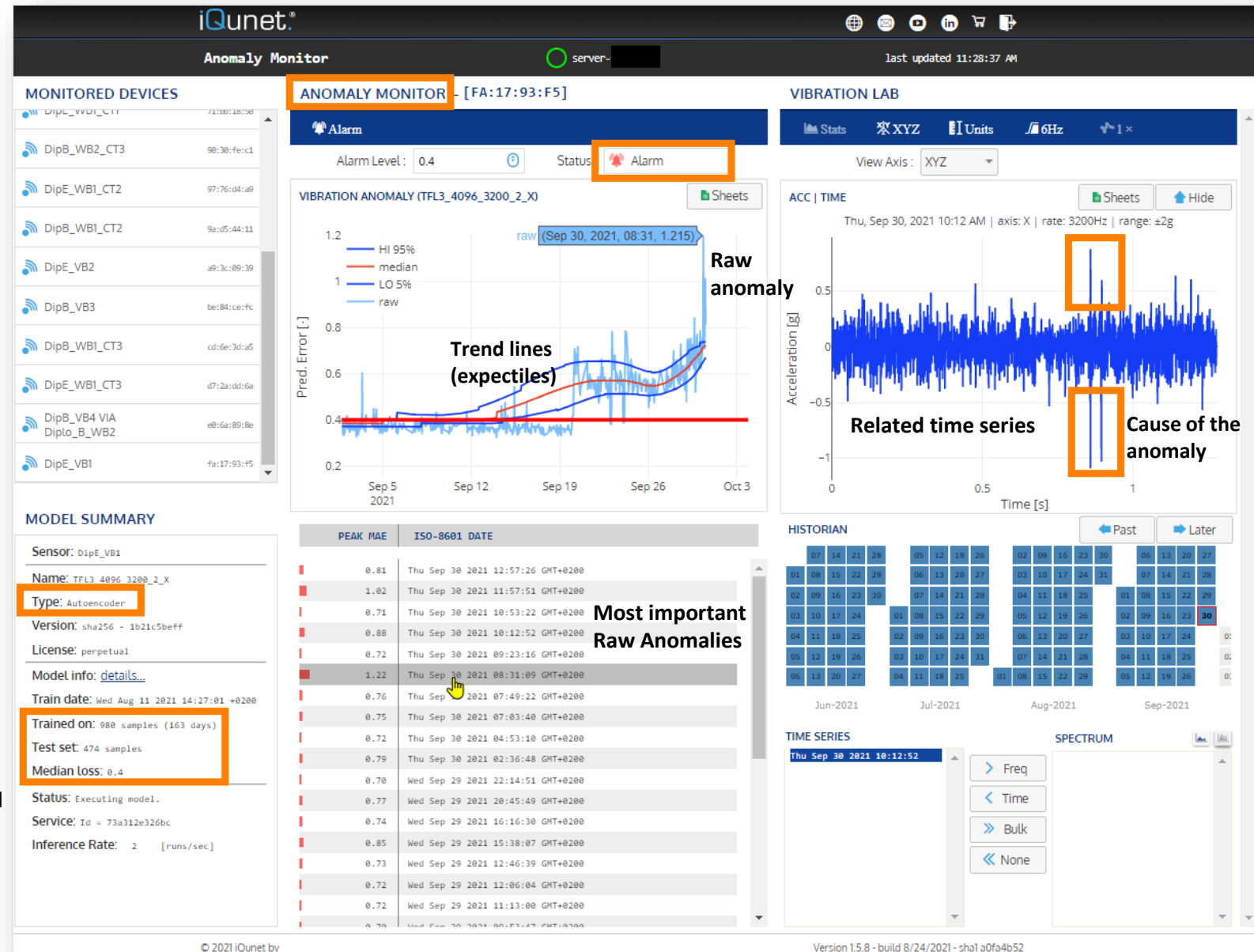
Sensor list

- 3ax vibration sensors + T°
- Current clamps (waveform)

ML type

**Machine Learning
(unsupervised learning)**

Trained on data from ±1000 initial
sensor measurements



Historical data

Spectrum graphs
Spectrum 3D graphs
RMS graphs
Kurtosis graphs