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WHY WORK WITH US

Yazzoom is a Belgian software and engineering company helping its customers for over ten years with software and services for industrial data analytics and process improvement. Driven by a passion for innovation targeted at creating value for our customers.

PROJECT APPROACH

- Definition of pilot scope and issue detection ambition (1day elapsed time).
- Optionally you install additional sensors on some motors based on ambition (0 to 12 weeks)
- Installation and integration of motor & drive monitoring detector in your IT/OT architecture (1 to 2 weeks)
- Configuration and training of initial motor specific anomaly detectors (1 to 2 weeks)
- Iterations of evaluation and improvement + knowledge transfer (2 to 6 months)
- Scope expansion to additional motors & drives and/or other equipment.



MOTOR & DRIVE MONITORING, ALERTING, QUICK DIAGNOSTICS

WHY MOTOR ANOMALY DETECTION?

PREDICTIVE MAINTENANCE

- From reactive to proactive maintenance
- Detection of mechanical, electrical or sensor issues
- Lifetime prolongation at controlled risk

EFFICIENCY IMPROVEMENT – CO2 REDUCTION

• Detection of reduced motor and/or drive efficiency

USED DETECTION METHOD

COMBINATION OF HUMAN EXPERTISE AND AI

 Uses self learning algorithms to learn from historical data what the normal sensor signals of a specific motor/drive are but has expert knowledge built-in about what signal characteristics are indicative of motor or VSD issues

CLOUD OR ON-PREMISE – YOUR PRIVATE DATA

• Our asset monitoring software is added to your data collection software, on-premise or in cloud

DATA NEED?

USES AVAILABLE MOTOR AND VSD SENSORS

- Tries to detect any issue as early as possible using available sensors: recommended: speed, power or current(s), temperature; optional: torque, speed setpoint, voltage(s), features from vibration or ECA
- Historical data in all operating conditions for which you want to use anomaly detection

LOW CONFIGURATION EFFORT

• No need for detailed datasheets

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REDUCED EXPERTISE NEED

NO DATA SCIENCE OR CODING NEED

Intuitive multi-lingual graphical user interface for configuration, analysis and system maintenance

INTERPRETABLE BY OPERATORS AND MAINTENANCE PEOPLE

Involve reliability engineer only when detailed additional analysis is needed

SCALABILITY

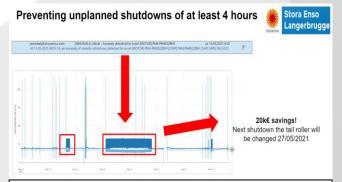
SCALABLE SOFTWARE ARCHITECTURE

Software scales from a few to thousands of monitored assets on cloud or on-premise Linux machine

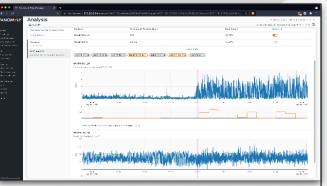
EXPANDABLE

Pump monitoring is part of the Alfor-industries software **Yanomaly.** It also has detectors for monitoring pumps, control loops,...

A FEW CUSTOMER REFERENCE USE-CASES



Detection of high energy consumption In example above Yanomaly shows high anomaly score and alert because power consumption is higher than expected for the produced speed and torque.



Detection of abnormal vibration

In example above Yanomaly had sent anomaly alert because RMS velocity of vibration sensor was abnormally high for the current operating regime.



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Interested and questions about hardware needs, data needs, pricing? Contact us: © 2022 Yazzoom. All rights reserved

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