

How Boon Logic helped AIONT provide unsupervised anomaly detection that saved their client \$740K in potential repair costs and 15-18 months of operational downtime

AIONT provides condition monitoring and predictive maintenance services for industrial pumps and compressors.

Challenges

After installing a condition monitoring solution on their client's Atlas Copco Centrifugal Air Compressor, AIONT knew there was one crucial capability missing: knowing whether or not the compressor was malfunctioning or heading toward an operational issue. Because of the size and complexity of the compressor, unsupervised anomaly detection was the only way to go, but AIONT didn't know of a solution that could be deployed quickly and easily on a 10-year-old compressor, or handle its fast rate of complicated data.

Solution

AIONT discovered Boon Logic's Amber — AI-based predictive maintenance and condition monitoring that can be trained and deployed in hours on equipment of any age, without the use of highly skilled and hard-to-find data science talent. After hiring Boon Logic, they had unsupervised anomaly detection up and running within days.

Results

- » Amber detected anomalies in stages 3 and 4 of the compressor that led to it being overhauled two months earlier than planned
- » Thanks to the early detection, the cooling bundle was found to have cracks in it, and was replaced before it could cause potential damage or failure to the compressor's core unit
- » Repairing the cooling bundle cost \$60,000 and 72 hours of downtime, instead of the potential 15-18 months of downtime plus \$800,000 to replace the compressor's core unit had it failed
- » AIONT is now able to offer unsupervised anomaly detection on their clients' assets, providing them a critical extra layer of protection



"There are so many benefits to Boon Logic's Amber. The configuration time is really short, the machine doesn't need to be new, and it allows you to monitor all different types of assets that operate in different modes. Their technology is really amazing, and it sets them apart from every other AI company."

—Paul Chen
SYSTEMS INTEGRATOR, AIONT

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