

clockwork Case Study

THE PROBLEM

A key client's product line faced challenges in predicting when maintenance would be required on key components - heater wire and gerotor - before they actually happened in the field and brought the client's customer's production processes to a halt while they waited on replacement parts and maintenance teams. They also faced a competitor making dubious claims about their own "sense and detect" system that, while apparently not factual, nonetheless made marketing a challenge.

THE SOLUTION

Through a process of anomaly detection, anomaly classification and diagnosis, and failure mode prognostics using a combination of five sensor readings and one month of historical data, Clockwork delivered a solution that provided advanced warning of impending failure for heater wire and gerotor components.

"Clockwork was able to determine critical warning factors up to 6 months in advance of a failure event..."

THE RESULT

With a reliable data stream in place, Clockwork was able to determine critical warning factors up to 6 months in advance of a failure event, which gave the client time to make sure repair parts were delivered and a maintainer dispatched so that no significant downtime was incurred. This also became a key value proposition the client could use for marketing purposes, creating a sense of confidence and good will with current customers and new sales prospects.