

Results and Impact Report of TRACTIAN Solutions on CP Kelco

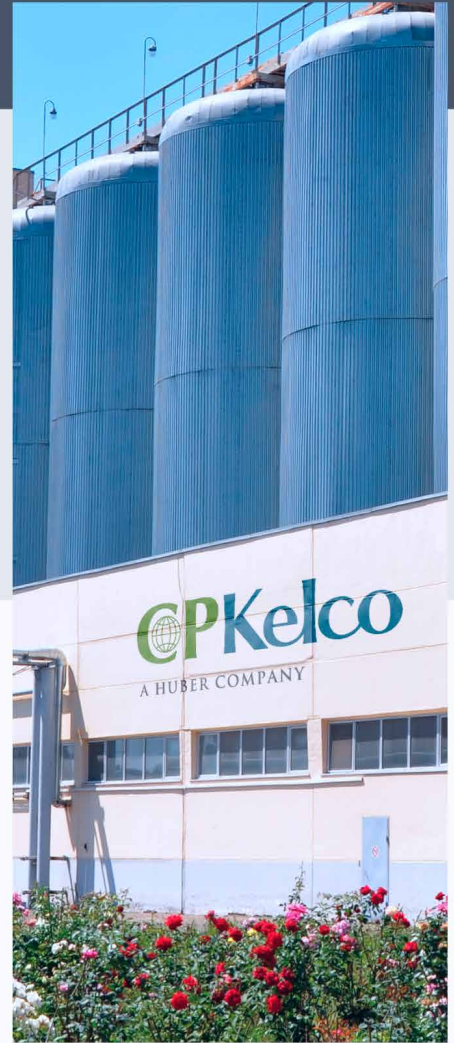
KEY FINDINGS

Saving **\$432k** ROI **297% in 12 months**

“ I'm really impressed by the reliability metrics that TRACTIAN is able to calculate in real time, and the level of detail when it comes to the failure modes and the insight generation. TRACTIAN has really improved our asset availability.



Gautam Sane
Senior Reliability Engineer
CPKelco
A HUBER COMPANY



CP Kelco is a global leader in nature-based ingredients, focusing on innovation and strong customer service. They use natural elements like lily pads, seaweed, and orange peels in various applications, maintaining high standards of quality and consistency for over 85 years.

Challenge

- Unexpected machine breakdowns
- High costs on unplanned downtime and reactive maintenance (run to failure)
- Monthly PMs were unable to detect issues early on
- Replace traditional sensors

Solution

- Fault-finding tool for automatic failure detection
- AI-powered algorithms prescribe actions to be taken, thus increasing productivity
- Increase in asset availability, generating cost savings and ROI
- Implement AI-Assisted Maintenance



Project Numbers



129 of CP Kelco's most critical assets are being monitored by Smart Trac



81+ Failures Detected through Auto Diagnosis



990K+ Data Samples

Food Process and Operational Challenge

The fermenter agitators are very critical for the operation. If a fermentation agitator fails, that can lead to at least **three to four days of downtime**. This is due to the time-consuming process of replacing the old gearbox, which typically fails first, and involves using a crane for installation and completing related tasks.

Types of Assets: Critical Centrifugal Pumps, Fans, and related.

If a critical asset fails:
72+ hours of Downtime

"Recently, we reformulated our OEE productivity control for the factory and realized that many of our problems or delays were caused by equipment failures."

Gautam Sane

Senior Reliability Engineer

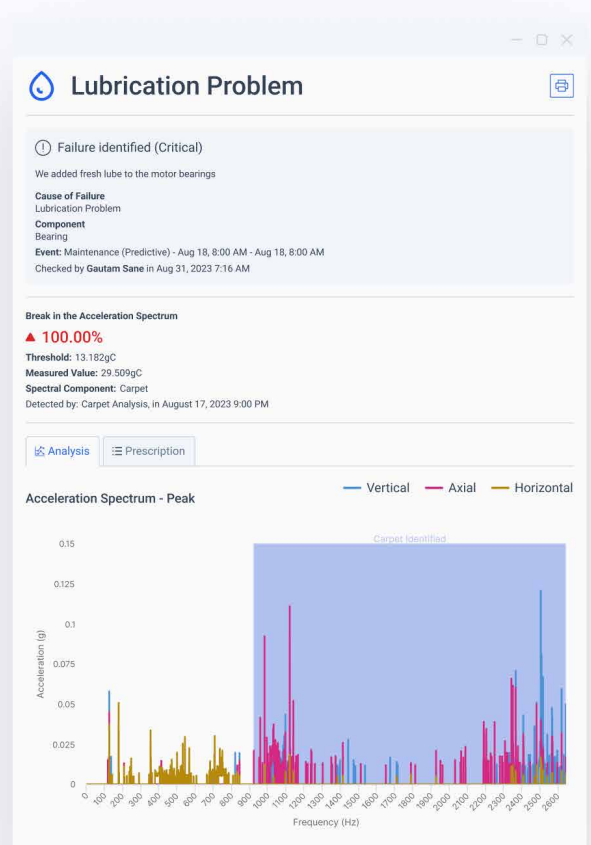
Identified Failures

Lubrication Problem Identified by AI

Asset: Still 3 Bottoms P-320 Motor

Solution: Vibration Monitoring

Saving: Avoided Bearing Wear

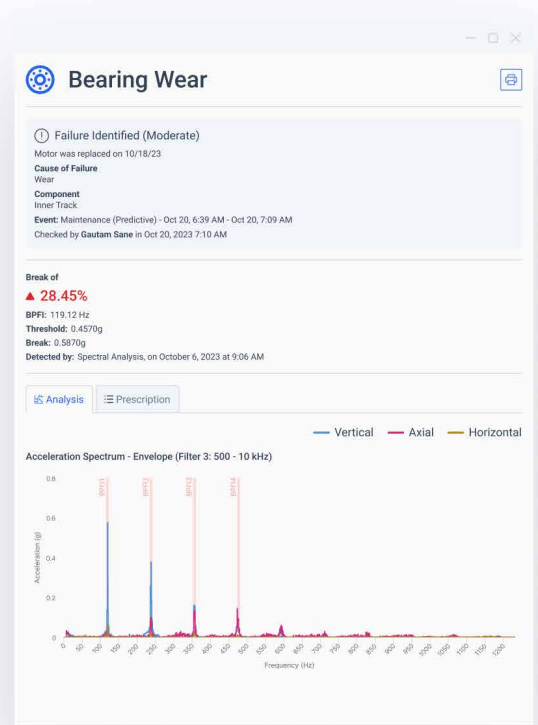


In another case, on a bottom pump's motor, a critical lubrication failure was detected. TRACTIAN AI™ algorithms performed carpet analysis, which identified a break of over 100% in the threshold.

The platform also informed the failure component was a bearing, so the ground team knew exactly where to act and what to inspect. Less than 12 hours later, they added fresh lubricant to the motor bearings and performed predictive maintenance to avoid a full breakdown, consequently increasing asset availability.

Wear Identified by AI

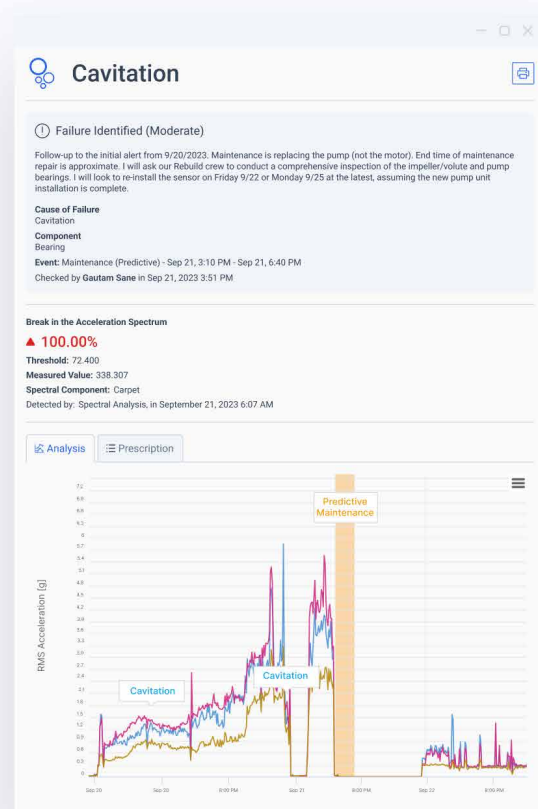
Asset: Hotwell P-100 Motor Inboard Bearing
Solution: Predictive Maintenance
Saving: Asset Replacement During Planned Shutdown



At CP Kelco, a critical pump has the potential to impact two thirds of total production if it fails. Through real-time data sampling and auto diagnosis, TRACTIAN AI™ detected a bearing wear issue on that pump's motor. The generated insights enabled the maintenance team to schedule a PM and replace the asset during a planned shutdown, thereby averting unexpected downtime.

Cavitation Identified by AI

Asset: Gellan Auxiliary Booster P-115 Pump
Solution: Vibration Analysis
Savings: Unplanned Downtime Avoided



At CP Kelco, a critical pump showed signs of cavitation, which triggered a platform alert. The maintenance team identified the fault as moderate took action based on platform prescriptions. The pump was replaced at the earliest convenience, avoiding unplanned downtime and unnecessary costs due to lack of production.

Start Exploring TRACTIAN Condition-based Monitoring

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