
Asset Performance on Pumps

Asset Performance

Business Challenges

- Failures in production linked assets such as Electrical Submersible Pumps (ESPs) can disrupt production and operator cash flows
- Costs of replacing an ESP and its associated production losses can be enormous
- If failures could be predicted with enough advance notice, then the ESP can be pulled during scheduled maintenance

Business Objective

- Risk of ESP failures can be greatly reduced by AI/ML combined with IoT enabled surveillance system
- Operators need an early-warning system of ESP performance degradation in the form of a probabilistic and predictive maintenance model
- Solution should support What-If, Reliability Analysis, Mean Time to Failure (MTTF) Prediction, Failure Distribution

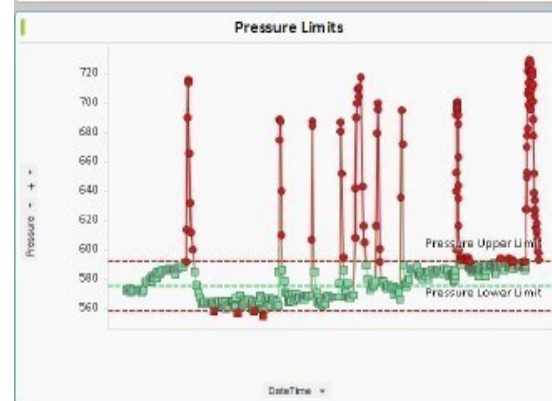
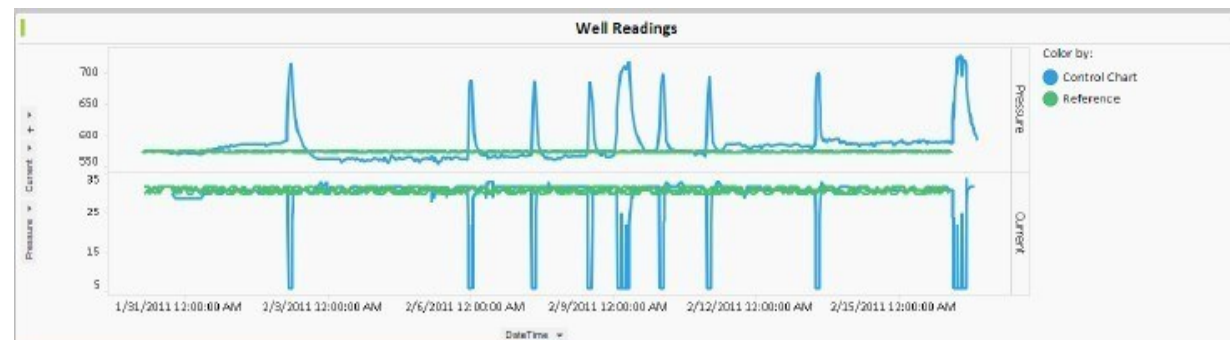
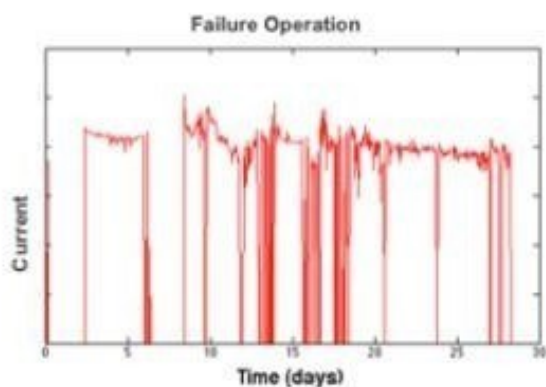
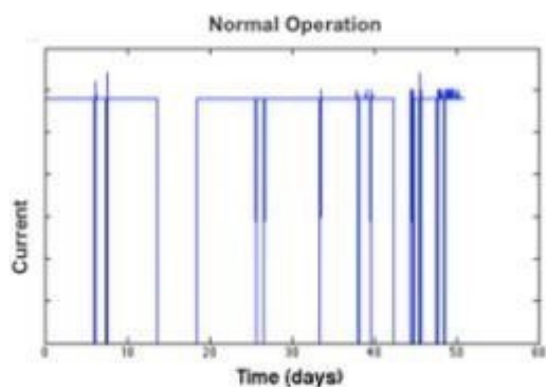
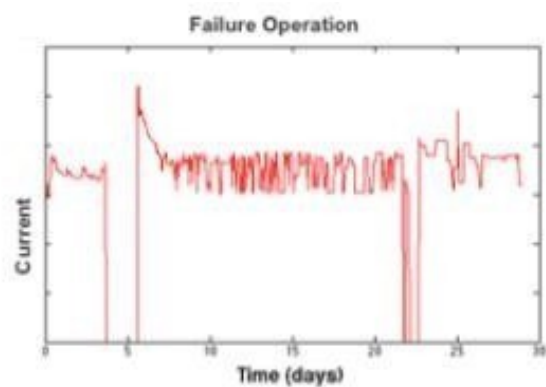
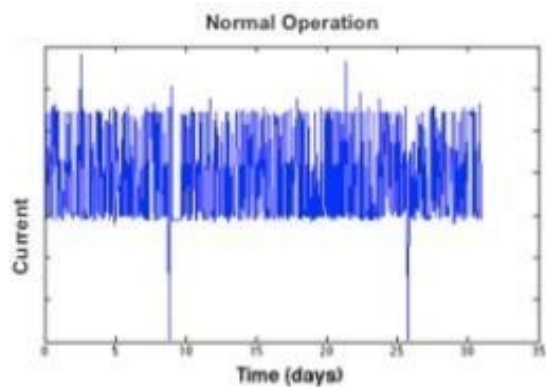
Solution

- Solution using an analytics workbench for asset performance analysis specific to asset health insights
- Identifies fault behavior using pattern recognition
- Generates Asset Health prediction reports at regular intervals
- Accurately predicts future failures using predictive analytics on a real-time series of data

Business Value

- Operators get more insight on the root causes of performance anomalies as well as how to mitigate and manage them until the well's next planned shutdown
- Improved ESP uptime and availability resulted in the reservoir's ultimate profitability

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Applied Analytics for Digital Enterprises

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