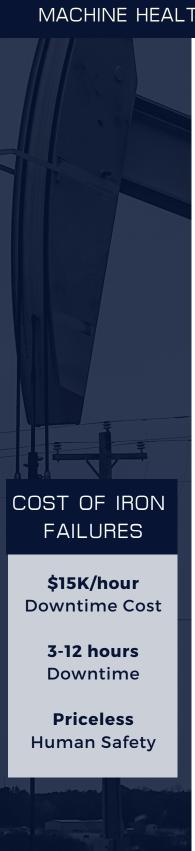
# HIGH PRESSURE IRON

MACHINE HEALTH SOLUTION



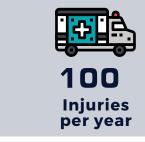


# THE PROBLEM:

On a frac pad, all of the metal piping, known as iron, is under extremely high pressure (psi). This is necessary for operation, but poses a life-threatening risk when pressure suddenly changes or spikes. Each year, 100 people are injured from catastrophic iron failures.

The good news? KCF Technologies has leveraged over 75 TB of data in the oil and gas industry to create machine health monitoring algorithms that identify the root cause of high psi iron to prevent life threatening iron failures.





# **ASSET CHALLENGES:**

There are several inherent challenges related to monitoring high pressure iron.



1. Vibration frequencies are undetectable by the human ear and eye.



2. High pressure iron is a symptom of another problematic asset. What is the root cause?



3. Time-based protocols do not capture actual inflicted damage.

# COMPREHENSIVE MACHINE HEALTH SOLUTION







#### REAL-TIME DATA

With real-time data, you can identify and act quickly on the assets that are experiencing the most machine health degradation



## >90% ACCURACY

With a constantly improving machine health algorithm, our MachinelQ software identifies machine faults with over 90% accuracy.



# ACTIONABLE DATA

Simple dashboards make your data understandable. At a glance, you'll know which assets need your attention.



# TEAM OF EXPERTS

KCF SENTRYsolutions team are certified machine health analysts. They work with your team to help solve complex problems.

# OPTIMIZE YOUR OPERATIONS

We've helped other oil and gas companies reduce asset failures, optimize their business operations, save money, and save lives. **How can we help you?** 





\$94M

2019 Industry Customer Savings "We have reduced catastrophic iron failures by over 90% since partnering with KCF. No longer do I worry about getting a phone call at 3am about an iron failure that could have seriously hurt one of our employees."

- US Pressure Pumping Executive