

THE CASE FOR SIRIUS

Application Sheet #52

REAL TIME BENEFIT

Reduced operational costs while increasing reliability.

SITUATION

- A major oil and gas operator in the Permian basin sought to standardize their fleet of chemical injection pumps with the goal of minimizing cost of ownership.
- The company had approximately 700 chemical injection pumps operating in the field. 70% of these were Sirius systems and 30% were typical, legacy-style pumps from a major manufacturer.

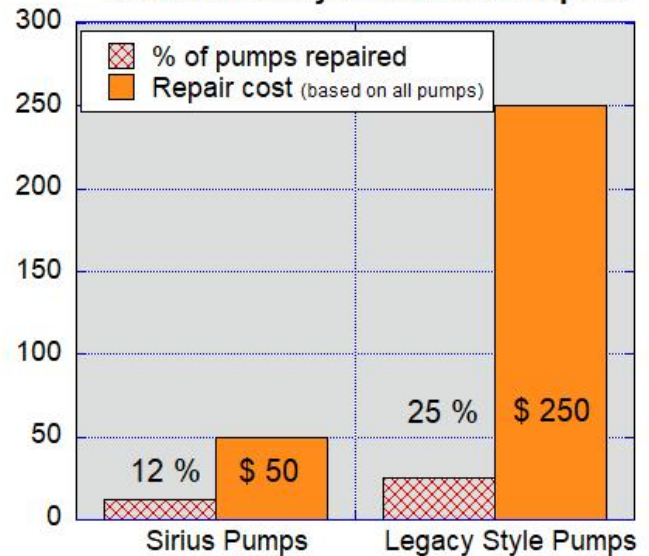
SOLUTION

- An evaluation was performed on all operating pumps using data from calendar year 2022.
- The evaluation considered upfront cost, chemical savings, pump reliability and data monitoring.

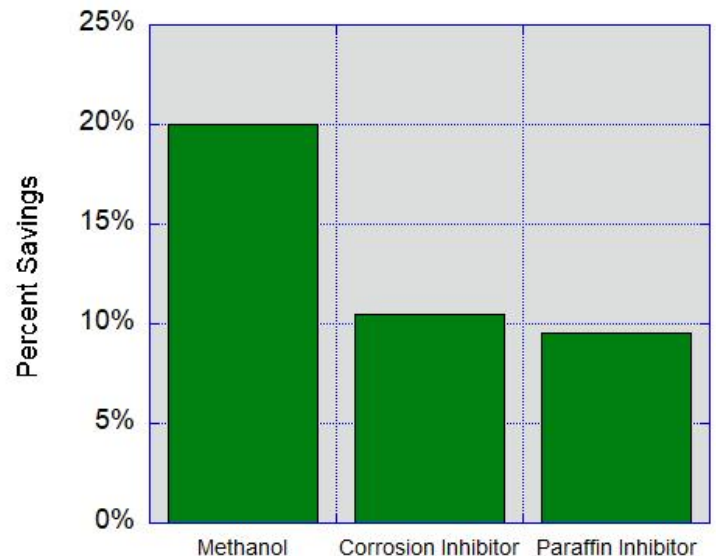
RESULTS

- The data showed that 12% of Sirius pumps required service compared to 25% of legacy-style pumps.
- The average annual service cost (per pump) for Sirius systems was 1/5th of that compared to legacy-style pumps.
- The accuracy and repeatability of the Sirius system allowed the operator to reduce chemical over-injection. Methanol consumption was reduced by 20%, and inhibiting chemicals reduced by 10 percent. See the plot to the right.
- By reducing pump failures there are additional benefits not reflected in the analyses above including, less production downtime and equipment damage due to lack of proper treatment.

2022 Reliability and Cost of Repairs



Reduction in Chemical using Sirius Pumps



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