

Reduce OPEX with Horizontal Pump Vibration Analysis

Valiant helps operators reduce unplanned downtime by stopping pump vibration problems at the source.

While not always obvious, vibration problems in horizontal pumping systems can signal internal performance issues that, if left unaddressed, will take a pump out of service and lead to unplanned and expensive repairs.

One operator experienced this firsthand at a Permian saltwater disposal facility, when they noticed a unit experiencing frequent shutdowns due to vibration.

Within hours of contacting Valiant, a technician was on site to troubleshoot the system.

After taking vibration measurements along the motor, frame, pump,

thrust chamber, and suction bracket, the source of the vibration was isolated to one of the two pumps that were run in tandem. The customer agreed to send the pumps to Valiant's test shop to determine the best course of action.

Based on test curve data and the location of the issue, Valiant confirmed that the discharge pump was the source of the problems on location. Valiant would be able to rerun the suction pump that passed testing and provide a new discharge pump for the customer.

With Valiant's legacy-compatible pumps and retrofit experience, the replacement would be a

simple process, and the new pump would fit right into place without issues.

Ready with a solution in-hand, Valiant delivered the retrofit the very next morning, achieving a record two-day turnaround to get the horizontal pumping unit back in commission and significantly cut down non-productive time.

By taking control of the situation and leveraging vibration analysis to pinpoint the root cause of failure, Valiant delivered the best solution for the operator: a seamless pump replacement that restored flow and pressure to the desired operating levels.

Location

- Cayanosa, TX

Challenge

- Severe vibrations causing frequent shutdowns and reduced productivity

Solution

- 2-day turnaround from on-site evaluation to pump replacement
- Retrofit Valiant VG9000 pump in tandem configuration with legacy manufacturer equipment



By combining the talent of our people with purposefully-designed products, Valiant is committed delivering the best solutions for your operations while helping you plan for long-term success.

If you need help:

- Improving system performance
- Reducing lifetime cost of ownership
- Maximizing equipment run life

Make Valiant your first call.

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