



SUCCESS STORY

Stainless Steel Manufacturer Improves Pump Life by 1,700%

On-site evaluation and Pump Substitution Leads to Reduced Downtime and Improved Performance

CHALLENGE

A stainless-steel producer was experiencing hydraulic pump failure on a variety of pump manufacturers' products, including a Parker pump. The manufacturers' hydraulic pumps would have an approximate one-month life and then fail. Evaluation of the pumps after failure showed excessive bearing wear in addition to other internal wear damage. Subsequently, the plant experienced higher maintenance costs and increases in manufacturing downtime.

SOLUTION

The stainless-steel producer contacted Parker for advice on how to decrease its plant hydraulic pump failure rate. As a result, [Parker's Value-Added Systems \(VAS\) Team](#) conducted an on-site review of the application and all its operational parameters.

Market
Manufacturing

Application
Stainless Steel Manufacturing

Solution
Parker's Value-Added Systems (VAS) Team

Axial Piston Variable Displacement Pumps – Series PVplus

Results

- 1,700% increase in pump life with the Series PVplus
- Increased plant efficiency and overall productivity



ENGINEERING YOUR SUCCESS.

Parker's VAS report identified customer improvements around the importance of flushing all of their hydraulic pumps' cases and bearings while using water glycol fluid.

In addition, Parker notified the stainless-steel producer regarding the necessity of specific flow and pressure requirements for case and bearing flushing while using water glycol fluid with their hydraulic pumps. Finally, Parker's VAS Team illustrated the benefits of its [Axial Piston Variable Displacement Pump - Series PVplus](#) in comparison to the competitive hydraulic pumps currently in their plant.

In summary, the solution included replacing other manufacturers' hydraulic pumps with Parker's Axial Piston Variable Displacement Pumps - Series PVplus, while also providing them with the proper installation and operation procedures for a successful Parker PVplus implementation.



Parker's Series PVplus pump

RESULTS

Since October 2022, the stainless-steel producer has been replacing competitive pumps with Parker's Series PVplus and monitoring their pump life in their plant.

Over an 18-month reporting period ending in March 2024, Parker's Series PVplus **pump lives have increased by 1,700%** in comparison to the prior pumps' life of one month.

As a result, this shift to Series PVplus pumps has substantially decreased the plant's manufacturing downtime while also increasing its efficiency and overall productivity.

