



## Summary



<b>Industry:</b>	Petrochemical
<b>Application:</b>	Water Pumps
<b>Actual Saving:</b>	£N/A
<b>Payback Period:</b>	N/A



## ERIKS provide full pump repair solution for customer

Pump repair solution also led to increased efficiency for the customer

### ISSUE

A customer contacted ERIKS after a large split case pump had failed in service. Following an inspection at an ERIKS EMS Workshop, it was found that the pump case and internal components had suffered heavy damage due to corrosion and age.

Due to the duty of the equipment it was discovered that the pump had been idle for long periods leaving the ferrous components of the pump in fresh water which later resulted in corrosion.

It was discovered that spares for the pump were no longer available and there was no direct replacement for the pump.

### SOLUTION

ERIKS' experts carried out a full repair solution that included fitting all new bearings, mechanical seals, machining true the pump case faces and inline re-boring the worn internal landing of the pump case.

New internal components were then reverse engineered with materials upgraded to increase resistance to corrosion.

The worn internal pump body was recovered with the use of a liquid metal process, then given a final ceramic coating to prevent any further corrosion of the cast iron case. The ceramic coating also had the added benefit of reducing the friction losses within the pump and therefore increasing the efficiency.

The pump was returned to the customer along with a repair report including final tolerances and pressure test results for future reference.

### OTHER BENEFITS

- ERIKS Know How
- Increased service life
- Increased efficiency
- Complete repair solution tailored to customers needs

### FURTHER COMMENTS...

ERIKS provided a sound engineering solution to an ongoing problem. The customer stated that they were impressed by ERIKS' high quality service and level of expertise.

### MORE INFORMATION

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