

**Cost-effective
Pump Repairs,
with Innovative
Solutions!**

Case Study Vertical, Diffuser Bowl, Lineshaft (VS1)



Duty & Fluid	OEM & Designation	Materials
Sea Water Lift Pump Sea Water	Peerless (Grundfos) 18 HXB x 2 Stage	Ni-Resist, Super Duplex w/ Fluorosint Bushes

Challenge

Sea Water Lift pump string from a UK offshore late-life asset. The pump materials used are reflective of the age of the platform, and although some materials had been upgraded, such as the Impeller Shaft to Super Duplex, the impellers and other wear parts were suffering badly from corrosion. The column spigot fits were also found to be out with acceptable tolerance.



Solution

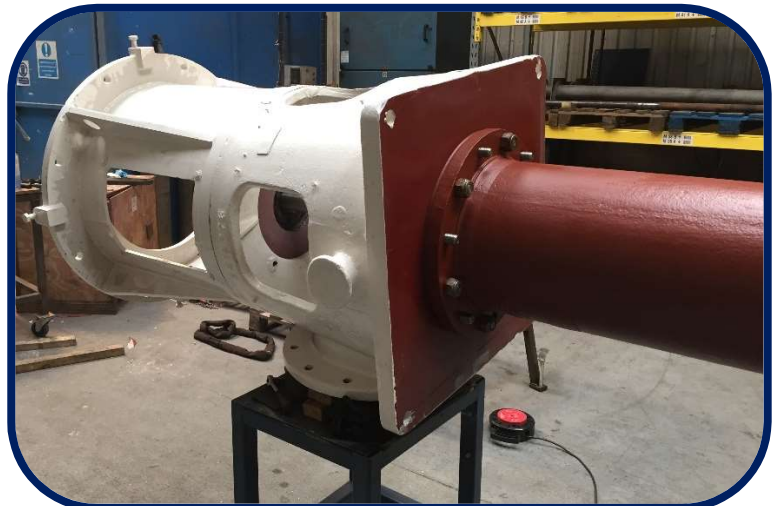
Pinnacle Re-Tec reverse engineered and manufactured in-house the required replacement parts such as, impellers from Ni-Resist Cast Iron and shafts in Super Duplex, with pattern and casting produced in the UK. To repair the out of tolerance spigot locations, Pinnacle Re-Tec machined repair rings, fitted & pinned them, and finished machined to required size in-house. We also fitted and finish machined the bearing bushes out of the original Fluorosint™ material.

Benefit

By reverse engineering and manufacturing all new parts in-house, Pinnacle Re-Tec were able to provide the customer with a more economic pump repair solution compared to the OEM, whilst still offering OEM equivalent guarantees.

Result

This **'one-stop-shop'** offering by Pinnacle Re-Tec, provided the customer with an on-time and cost-effective pump repair which included a full trial assembly of the 25m long pump string, inclusive of the Discharge Bend, Thrust Bearing Assembly, Motor Stool and Coupling Hub.



To see how Pinnacle Re-Tec can help you with cost effective pump repairs and innovative solutions to increase MTBF please call us on 01207 588 731 or email info@pinnacle-re-tec.co.uk