

Breathing New Life into Old Equipment, with Innovative Solutions!

Case Study Vertical, Diffuser Bowl, ESP (VSO)



Duty & Fluid

Sea Water Lift Pump
Sea Water

OEM & Designation

Weir
SBWM 660 – 1 stage,
U26 Motor

Materials

Super Duplex

Challenge

Electro Submersible pump was received seized due to significant galling damage caused by both rotating and stationary wear rings being manufactured from Zeron 100, which have a high tendency to gall against each other. The U26 Motor also required overhaul.



Solution

To prevent future galling / seizure problems, Pinnacle Re-Tec reverse engineered and manufactured new wear rings in super duplex material with HVOF Tungsten Carbide coating applied. The bearing sleeves were also upgraded to duplex material and bearing material was upgraded to peek rather than cutlass rubber.



Benefit

By reverse engineering and manufacturing all hydraulic parts in-house in the correct material and with upgraded coatings, Pinnacle Re-Tec offered the client an upgraded repair.

Result

Pinnacle Re-Tec provided the client with a one-stop-shop for their ESP pump repairs, including material and coating upgrades and new cradle manufacture. All hydraulic end upgrades completed by Pinnacle Re-Tec. U26 motor repairs sub contracted and Pump tested to duty. Pinnacle Re-Tec now considered as viable repairer of ESP pump sub-sets.



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