

Breathing New Life into Old Equipment, with Innovative Solutions!

Case Study Multi-Stage Radially Split, Barrel (BB5)



Duty & Fluid

OEM & Designation

Materials

Sea Water Injection.
Sea Water

Weir. Type OK-7C-25
Sea Water Injection

Super Duplex

Challenge

Customer required overhaul of their 7-stage barrel pump assembly which had been on a Sea Water Injection Duty. During our inspection, it was found that the cartridge unit had suffered significant head damage due to pump dead heading and subsequently running dry. Customer required pump overhauled for year-end, ready for January 2022 Water Injection outage offshore.



Solution

Pinnacle Re-Tec reverse engineered and manufactured the worn parts in-house. Main replaced parts included the heavily fretted shaft, restriction bush which had heavy wear in bore, wear rings where previously applied HVOF tungsten coating had blistered and also balance drum which had wear to the OD.

Benefit

Reverse engineering and manufacturing inhouse ensured that not only did our client had a cost effective pump repair solution, but the pump was repaired in line with very time deadline.

Balanced rotor prior to rebuilding complete bundle. During bundle build every section is added one by one, checking the total float and any clash points to ensure correct total float when complete. When bundle complete, the NDE and DE bearing housing are fitted ensuring correct concentricity and axial float is achieved.



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

**Breathing New
Life into Old
Equipment, with
Innovative
Solutions!**

Case Study Multi-Stage Radially Split, Barrel (BB5)



Duty & Fluid

OEM & Designation

Materials

Sea Water Injection.
Sea Water

Weir. Type OK-7C-25
Sea Water Injection

Super Duplex

Result

Complete overhauled cartridge including mechanical seal and bearing housing repair, ready for installation into barrel offshore during the upcoming Water Injection outage early January 2022.



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