

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

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



Duty & Fluid

Boiler Feed Pump.
Water

OEM & Designation

Clyde Union
6x8x13 DB36 – 10 stg
Boiler Feed Pump

Materials

Carbon Steel Hydraulic
components, Stainless
Steel shaft.

Challenge

Customer required overhaul of their 10-stage barrel pump assembly on a Boiler Feed Duty at an Oil Refinery in the UK. During our inspection, it was found that the cartridge unit had suffered from general wear and tear and cartridge required a full overhaul. Having overhauled several of these units typically we are reverse engineering and manufacturing new rotating parts such as impellers, case and impeller wear rings, stage pieces, throttle bush and shaft repairs. On this pump the suction piece was also damaged on locating diameter to cartridge.



Rotating element being stripped down, prior to manufacture of new wear rotating parts.



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

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Solution

Pinnacle Re-Tec reverse engineered and manufactured the required spare parts in-house. The suction piece was damaged on locating diameter to cartridge, this was weld repaired by 3rd party with full weld procedures in place, then machined to finish size in-house at Pinnacle Re-Tec. Picture to right, is repaired suction piece fitted to cartridge during rebuild.



Benefit

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

Result

The refurbished cartridge was fitted to the pump barrel and pressure tested prior to being delivered back to client at UK Refinery, within the 16-week lead time for changeout. We have overhauled several of these units in the past 2 years for this client. Pinnacle Re-Tec provided client with an improved, faster, and cheaper pump repair compared to the OEM, whilst still offering OEM equivalent guarantees.



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