



CASE FILE

“Fast Track” Refurbishment of a TKL1000x1200 Horizontal Shaft Split Case Pump

The Customer

Melbourne Water, Victoria, AUSTRALIA

The Application

Pump disassembly, repair of rotary assembly and repair to pump casing protective coatings.



TKL split case
horizontal shaft pump



Rotating assembly showing worn
and eroded seal rings and shaft
sleeves



Refurbished assembly
with new sealing rings
and shaft sleeves

The Problem

Lead time on original manufacture spare parts exceeded scheduled pump maintenance downtime.

The Products Used

Rezitech's large machine job capabilities allowed replacement shaft sleeves as well as casing and impeller rings to be manufactured to spec in-house. Belzona® 1341 Supermetalgilde was also used for spot repairs on the pump casing damaged coating.

The Substrate

Cast Iron

The Application Method

Rezitech's large centre lathes enabled the worn and eroded impellor seal rings to be machined off with ease. Rezitech then procured raw material to manufacture the replacement components from around Australia.

The Outcome

Rezitech's expertise in large pump repairs further supported by the specialist skill base in our workshop allowed Melb water to have the pump repair fast tracked by having the complete repair inclusive of not only repairing the pump but also the internal coating with Belzona® 1341 Supermetalgilde. On completion of the repair we also laser aligned the drive coupling and performed vibration analysis at the time of commissioning.