

Case Study

Cooper & Blue Brute Bearings



INDUSTRY

Sand Quarry

PROBLEM

A Sand Quarry in South Australia was experiencing continuous change-outs of the bearing housings as well as the head drum itself as water and sand splashed back from the trammel. The bearings would need to be changed every 6 – 8 weeks and the head drum would need replacement every 8 months as the shaft became worn and corroded.



APPLICATION

Head Drum

SOLUTION

This application is a common problem for sand quarries throughout Australia and requires a complete bearing solution. BSC redesigned the whole area. First we changed the head drum shaft to a stainless steel shaft and used 2 self locating shaft locking devices welded onto the drum and locked onto the shaft. Utilising Blue Brute and Cooper bearings with advanced sealing technologies solved the issue of water and sand ingress to the bearing units.

BENEFIT

The added benefit of the head drum shaft redesign is that when the shaft needs replacing we can just replace the shaft and save the drum. The original Cooper and Blue Brute bearing units are still in service and performing well – 18 months after installation.

