

Oxifree Case Study Mining Sector



Test application for Oxifree protection within the mining industry

Introduction:

For the mining industry the effects of corrosion and particle contamination have been a costly factor to production for many years. Bearing housings and compressors have historically suffered from their exposure to the elements resulting in the penetration of particles and humidity.

Roller bearings and gear boxes suffer greatly in these areas greatly reducing the useful life of the bearings.

Solution:

By using Oxifree metal protection, the whole surface of the equipment is encapsulated by our sprayable polymeric resin thus preventing any contamination and maximizing the life of the equipment.





Bearing shaft and bearing drum for the conveyor belt – before the application of Oxifree





Bearing shaft and bearing drum for the conveyor belt after applying Oxifree



Bearing house before Oxifree application



Bearing house after Oxifree application

To maintain the integrity of the application at the end of the shaft a loose clip is applied allowing the output of the old grease when the new grease is pumped, thus allowing the shaft to rotate freely within the application. This is facilitated by the presence of corrosion inhibitor oils in the composition of Oxifree.

In the mining sector, the main problems experienced with bearing housings are caused by the penetration of water, dust and other contaminants. It has been proven that Oxifree will create a barrier to these contaminants and extend the life of the equipment exponentially. This greatly reduces the replacement cost of parts that typically can fail within a short timeframe. Oxifree can therefore very easily demonstrate its direct cost benefit.

For more information please contact



Tel: +44 1276 534110 | Email: enquiries@oxifree.com | Web: www.oxifree.com