



## Ernest Henry Copper Mine – Queensland - Australia

Komatsu Mining

As per our conversation I am very happy with the life we have achieved since we started to replace the rear third of our wear package in the 830E bodies with ARCO plate.

**Previously we had fitted 20mm 400 grade Q&T plate which would only achieve 5,000hrs before requiring replacement.**

**The first sheets of Arcoplate were fitted back on the 11/06/2001 and these plates are still in service with currently 14,518hrs on them.**

These are now due for replacement which means we are achieving 3 times the life of 400 grade Q&T.

This has reduced our costs with labour, down time and material having not had to revisit this wear package every 5,000hrs this is a big saving over the 19 x 830E trucks we have on site.

Currently all trucks have had Arcoplate fitted to the rear wear package area of our bodies.

Maintenance Planner

November 2003

## Test Report on Komatsu 730 E at Codelco - Chile

### Object of this study.

Monitor Arcoplate Grade 1600 6 on 7 and a Q&T material with a hardness of 500Bhn.

The trial was to monitor material weight loss by measuring ultrasonically material thickness and recording the readings over a period of time the trial also looked at the relevant cost savings that may be achieved by using a super alloy over Q&T Plate.

### Initial test data obtained.

When Arcoplate 1600 6/7mm (Total thickness 13mm) average wear was measured at less than 0.34mm while the 500 BHN Q&T Plate showed a plate thickness reduction of 1,89mm with the collection of the wear rate data one is able to predict the tonnage and calculate the wear rate before the material is worn away.

**As a result of these wear measurement one can be reasonably confident that by selecting the appropriate thickness of Q&T Plates in the impact zone and with the use of Arcoplate on the tail sections a desirable life cycle of the truck box can be reached.**



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