



CLEAN OIL
BRIGHT IDEAS

Application Study
written by:

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New Zealand

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We Commit. We Do.



Lube Oil

Cement Mill, Rotary Kiln Trunion Bearing

CJC™ Application Study

CUSTOMER

Golden Bay Cement, Whangarei.
New Zealand's largest cement manufacturer and supplier.

THE SYSTEM

System: Rotary Kiln Trunion Bearing Lubrication
Oil Type: Kluber HT ISO 1000
Oil Volume: 80 L

THE PROBLEM

The oil samples indicated a high level of particle and water contamination, resulting in frequent changes of the 1000 cSt lubricant and a reduced bearing life.

THE SOLUTION

A **CJC™ Fine Filter HDU 27/27-PV8-B** with **CJC™ Filter Insert B 27/27** with a dirt holding capacity of 4.0 L and a flow rate 22 L/h. The mobile CJC™ Fine Filter was connected to the bearing drain outlet.

FINANCIAL BENEFITS

Longer periods between services and lubricant replacement based on cost of lubricant. The pay back on the customer's CJC™ Fine Filter investment will be within 12 months.

ENVIRONMENTAL BENEFITS

Golden Bay Cement's vision of "zero waste and zero harm" is enhanced using the CJC™ Fine Filter, which resulted in reduction of oil waste.

THE TEST

Golden Bay Cement offered an on site trial to prove that the CJC™ Fine Filter would reduce the lubricant contamination from an uncountable ISO code to an ISO code 19/17/15.

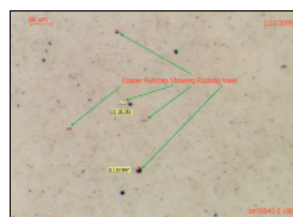
THE RESULT

The CJC™ Fine Filter was installed on 20th November 2009. Oil samples taken on 21st December 2009 showed an amazing reduction of particle contamination to an ISO code of 18/16/13.



Mr. Phil Immes & Mr. Brad Lewis, Golden Bay Cements Rotary Kiln with CJC™ HDU 27/27 Mobil Fine Filter installed

OIL SAMPLES



Before CJC™ Filtration



After CJC™ Filtration



The used CJC™ Filter Insert

THE RESULT

Per 100 ml	Before CJC™ Filtration	On Site Trial Test Goal	4 weeks after Installation of CJC™ Filter
ISO Code	uncountable	19/17/15	18/16/13

COMMENTS

Mr. Phil Immes, Lubrication Technician

We were impressed with the results achieved installing the CJC™ Mobile Fine Filter. After one week of filtration, the lubricate showed a significant ISO level improvement. Extra bonus is that we did not realize we had water problems. This has been solved since the CJC™ Fine Filter was put into service. We find that Filter Insert change is very easy.