



CLEAN OIL
BRIGHT IDEAS

Application Study
written by:

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CJC™ Application Study

CUSTOMER

Lafarge Republic Inc., Iligan Plant, Philippines

SYSTEM

System: Finish Grinding Mill (FGM) No. 1
Gearbox

Oil Type : ISO VG 320, Gear Oil

Capacity: 2,400 Liters

PROBLEM

Lafarge Iligan maintenance team is doing a quarterly oil analysis on their machines to determine their oil and machine wear condition. On December 2014, the analysis revealed that their Finish Mill No. 1 gearbox contained large amounts of wear elements and was heavily contaminated with silicon (cement dust). Due to operational demand, they could not afford to stop production to carry out an oil change.

SOLUTION

A CJC™ Fine Filter, HDU 27/108 with 4 x CJC™ Filter Inserts B 27/27 with an absolute filtration degree of 3 micron was installed to filter and re-condition the oil. **After only 3 weeks** of continuous oil filtration, wear elements and solid contamination were removed and oil cleanliness level was improved significantly.

BENEFITS

Aside from extending the lifetime of their oil, Lafarge was able to operate continuously without production stop related to oil contamination. Furthermore, Lafarge Iligan Finish Mill became more reliable and productive.

FINANCIAL BENEFITS

The customer saved 2,400 Liters of oil, approximately amounting to Php 360,000 (7,142 EUR) on production loss, spare parts and labor cost due to an oil change.

ENVIRONMENTAL BENEFITS

Oil change has been eliminated and thus, oil disposal is no longer an issue.

CUSTOMER COMMENTS

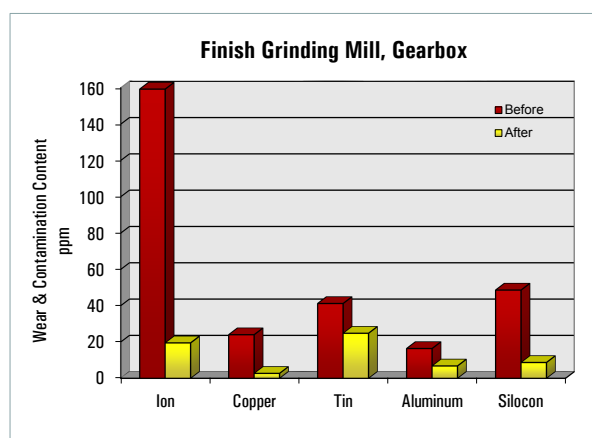
Mr. Joseph Janerol, Methods Manager

"As we are satisfied with the performance of the CJC™ Offline Oil Filtration, is contemplating to the purchase of our own CJC™ Offline Oil Filtration Unit"



Finish Grinding Mill No. 1, Gearbox at
Lafarge Republic Inc., Iligan Cement Corp.
with CJC™ Fine Filter HDU 27/108 installed

WEAR & CONTAMINATION CONTENT



RESULT

	BEFORE 08.01.2015 PPM	AFTER 3 weeks 24.01.2015 PPM
Iron	160	20
Copper	24	3
Tin	41	25
Aluminum	16	7
Silicon	49	9

Wear contamination, ppm