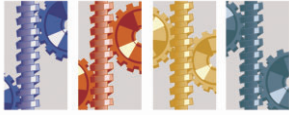




OIL FILTRATION SYSTEMS

CJC™ Application Study

Lubrication Oil - Excavator, Diesel Engine



INDUSTRY

*Application Study
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2002

CUSTOMER

Corporación Nacional del Cobre
Codelco/Finning - Chile.
Division Radomiro Tomic Chile.

THE SYSTEM

The lube oil system on the diesel engine of a Caterpillar excavator type D10R. Engine type 3412TA with a power output of 570 hp and an oil sump of 60 ltr. Oil type 15 W 40.

THE PROBLEM

The customer experienced frequent failure of the injection pump due to high contamination of the lubricating oil.

THE SOLUTION

CJC™ FineFilter HDU 27/27 PV with a 24 V DC motor installed off-line on the engine sump. The filter uses a **CJC™ FilterElement A 27/27** filtering to 3 micron abs. and absorbing water and combustion material. The element has a dirt holding capacity of 4 litres.

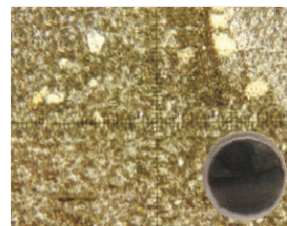
THE RESULT

The filter unit has reduced the contamination to a level 4 times lower than when new oil was introduced. This has arrested the problem and increased the life time of the injection pump and oil dramatically.

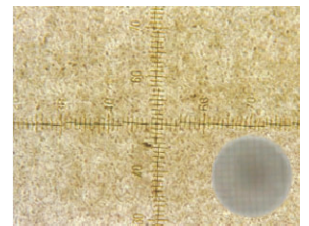
Caterpillar Excavator D10R-401.



The installation of CJC™ Filter.



Before CJC™ Filter.



After CJC™ Filter.

THE RESULT

	5 micron	15 micron	ISO	Insoluble gr/ltr
0 days new oil:	847,610	71,940	20/17	0.663
16 days:	161,250	4,180	18/13	0.519
23 days:	179,570	3,810	18/12	0.210

