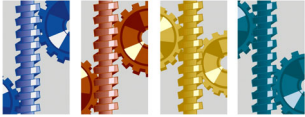




C.G.JENSEN

OIL FILTRATION SYSTEM



INDUSTRY

*Application Study written by:
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CJC™ Application Study

Excavator D10R Diesel Engine Lube Oil

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 a oil sump of 60 ltr. Oil type 15 W 40.

THE PROBLEM

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

THE SOLUTION

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

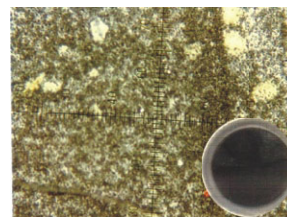
THE RESULT

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 of the injection pump and oil dramatically.

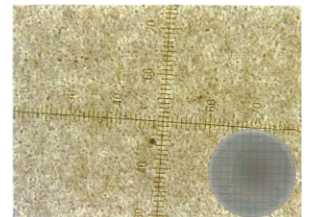
Caterpillar Excavator D10R-401



The installation of CJC™ Filter



Before CJC Filter



After CJC Filter

THE ANALYSIS

	5 micron	15 micron	ISO	Insoluble gr/ltr.
0 days new oil	847610	71940	20/17	0.663
16 days	161250	4180	18/13	0.519
23 days	179570	3810	18/12	0.210



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