



**CLEAN OIL**  
**BRIGHT IDEAS**

# Lubrication Oil Excavator, Diesel Engine

## CJC™ Application Study

**Application Study  
written by:**

Marcelo Gonzalez L.  
C.C.JENSEN Chile, S.L.

**In cooperation with:**  
Kim Kjær  
C.C.JENSEN A/S  
Denmark

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### CUSTOMER

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

### THE SYSTEM

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

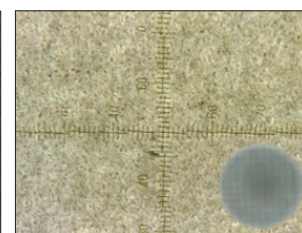
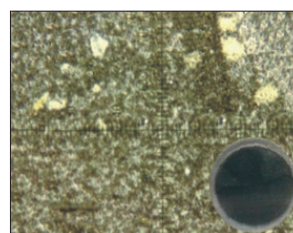
The customer experienced frequent failure of the injection pump due to high contamination of the lubricating oil.

### THE SOLUTION

**CJC™ Fine Filter HDU 27/27 PV** with a 24 V DC motor installed off-line on the engine sump. The filter uses a **CJC™ Filter Insert A 27/27** filtering to 3 micron abs. and absorbing water and combustion material. The insert 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.



### 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

**ASIN5026-UK**

Mining  
Dump Trucks & Excavators  
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**C.C.JENSEN A/S**

Løvholmen 13 • DK-5700 Svendborg • Denmark  
Phone: +45 6321 2014 • Fax: +45 6222 4615  
filter@cjc.dk • www.cjc.dk