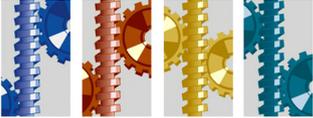




CJC™ Application Study

C.G.JENSEN

OIL FILTRATION SYSTEM



INDUSTRY

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Mobile Filtration in Dumper Transmissions

CUSTOMER

Mining Company Disputada de las
Condes CMD
"Los Bronces" Mines (Chile).

THE SYSTEM

Transmission system on the Dresser
dumper N°21 containing 2 x 40 litres of
synthetic oil ISO VG 220.

THE PROBLEM

Due to the harsh working conditions the
oil was extremely contaminated with
both wear metals and abrasive dust from
the environment.

The only way the client could reduce the
contamination level was by changing oil
frequently. It is only possible to clean
the system during service, overhauls
lasting 1-2 hours a week..

THE SOLUTION

In order to arrest the problems quickly
two CJC™ **Fine Filter** type **HDU
27/54 EH1PTM** were installed. Two
cellulose based filter inserts type **B
27/27** (3 micron abs.) were used.
Cellulose is a highly polar material
which ensures efficient absorption of
the resin from the oil system.

THE RESULT

In the first test, in a 45 minutes' period,
the contamination level decreased 3 ISO
codes and iron was reduced by 37%. It
is estimated that above reduction in
contamination will result in 3 times
longer lifetime on both transmission
system and oil.



The two CJC™ Filter units on Dresser dumper
in "Los Bronces" Mines of Chile



A Caterpillar dumper with similar systems.

THE ANALYSIS

Particles	Before	After
5 micron	47940	9233
15 micron	967	43
ISO	23/17	20/13

COMMENTS

The oil in the transmissions are cleaned up to the
level of new oil in only 2 hours.

