



**CLEAN OIL
BRIGHT IDEAS**

**Application Study
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CJC™ Application Study

CUSTOMER

Compañía Minera Disputada de las Condes
CMD. "Los Bronces" Mines, Chile.

THE SYSTEM

Transmission system on the Dresser dumper
Nº21 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 con-
tamination level was by changing oil frequently.
It is only possible to clean the system during
service overhauls lasting 1-2 hours a week.

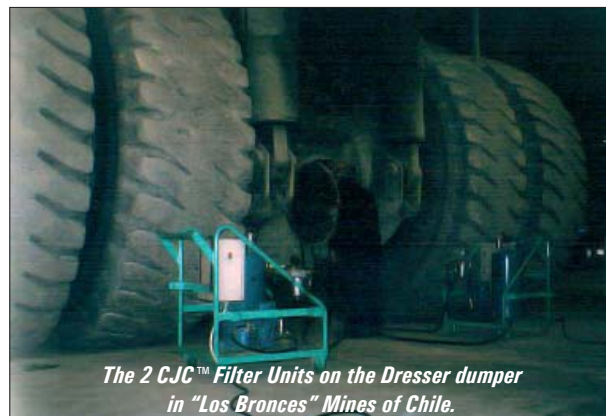
THE SOLUTION

In order to arrest the problems quickly two **CJC™
Fine Filter HDU 27/54 EH1PTM** were instal-
led. Two cellulose based **CJC™ Filter Inserts
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 minute period, the con-
tamination level decreased 3 ISO codes and iron
was reduced by 37%. It is estimated that the
above reduction in contamination will result in 3
times longer lifetime on both transmission sys-
tem and oil.

Gear Oil Dumper Truck Transmissions



THE RESULT

Particles per mL	Before	After
5 micron	47,940	9,233
15 micron	967	43
ISO	23/17	20/13
Iron	61 ppm	38 ppm

COMMENTS

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

ASIN5030-UK

Mining
Dump Trucks & Excavators
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