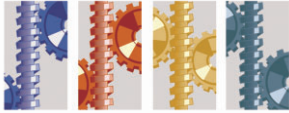




OIL FILTRATION SYSTEMS

# CJC™ Application Study

## Gear Oil - Dumper Truck Transmissions



### INDUSTRY

*Application Study  
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### CUSTOMER

Compañía Minera 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.

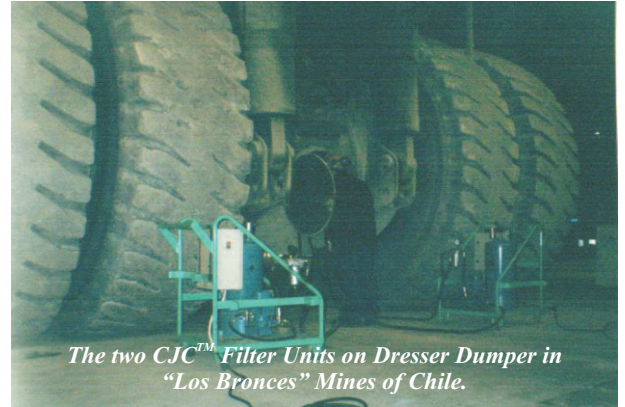
The only way the client could  
reduce the contamination level was  
by changing oil frequently. It is only  
possible to clean the system during  
service overhauls lasting 1-2 hours  
a week.

### THE SOLUTION

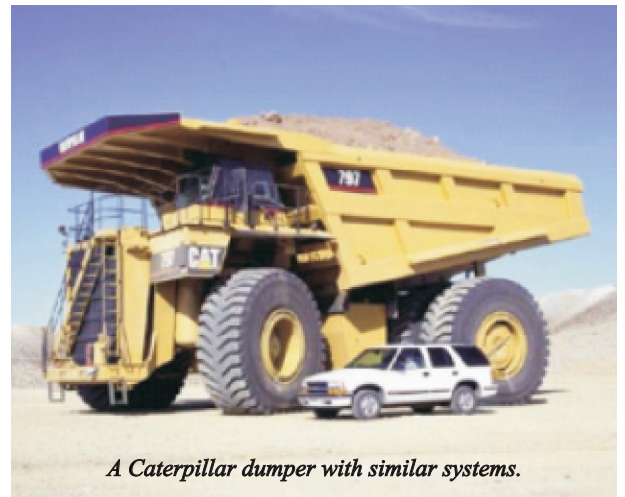
In order to arrest the problems  
quickly two **CJC™ FineFilter  
HDU 27/54 EH1PTM** were instal-  
led. Two cellulose based **CJC™  
FilterInserts B 27/27** (3 micron  
abs.) were used. Cellulose is a  
highly polar material which ensures  
efficient absorption of the resin  
from the oil system.

### THE RESULT

In the first test, in a 45 minute  
period, the contamination level  
decreased 3 ISO codes and iron was  
reduced by 37%. It is estimated that  
the above reduction in contami-  
nation 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 RESULT

Particles	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.*

