



CLEAN OIL  
BRIGHT IDEAS

Application Study  
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## CJC™ Application Study

# Diesel Engine Lube Oil

## DINO Bits - Diesel Engine Test Bed - Storage Tank

### CUSTOMER

**Toromont Caterpillar** is the Canadian certified Cat dealer covering Ontario, Manitoba, Nunavut, Newfoundland and most of Labrador.

### THE SYSTEM

2,000 litres Dino test bed storage tank, serving 2 Dino bits.



TOROMONT CAT



The CJC™ HDU 27/108 installed at Toromont Caterpillar

### THE PROBLEM

Toromont Caterpillar test procedures require all engines to run at certain load profile for 3 hours after rebuild and before shipping out to clients as a standard quality service.

Toromont Caterpillar wanted to ship dry engines as a part of their environmental approach and also to comply with regulation of Canadian transportation regulations.

### THE SOLUTION

A **CJC™ Fine Filter HDU 27/108 PV** (pump flow 145 L/h) using **CJC™ Filter Insert A 27/27** was offered as a key equipment in controlling the filling of the engines, circulating while testing, emptying the engine after testing and to circulate the storage tank in standby hours.

### THE TEST

One HDU 27/108 was installed on the first Dino pit and weekly samples were collected by Toromont internal lab and quality control office to make sure the oil conditions are within acceptable cleanliness level. After 2 month of testing and positive results, a second unit was installed on the second Dino pit to cover all engines being rebuilt in the facility.

### THE RESULT

**The test results show that the amount of particles was kept continuously below an ISO Code level of 16/13.**

Large savings were made by reducing quantity of disposed oil. Engine oil is now recycled over several testing cycle. Further more, the plant is 100% complying with the Canadian transportation requirements.



The CJC™ Fine Filter HDU 27/108 PV

### OIL SAMPLE

Date	ISO Code	Date	ISO Code
2007-01-01	15/13	2007-04-23	15/12
2007-01-15	15/12	2007-05-07	15/11
<b>2007-01-29</b>	<b>13/10</b>	2007-05-21	15/11
2007-02-12	15/12	2007-06-04	15/12
2007-02-26	15/12	2007-06-18	15/12
2007-03-12	15/12	2007-07-02	15/12
<b>2007-03-26</b>	<b>16/13</b>	2007-07-16	16/12
2007-04-09	15/12		