



CLEAN OIL  
BRIGHT IDEAS

Application Study  
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2010

# Hydraulic Oil Hydraulic Power Pack, Head Rig, Timber Mill

## CJC™ Application Study

### CUSTOMER

**Taranaki Pine, Taranaki, New Zealand**  
Possessing timber from sustainable pine plantations.

### THE SYSTEM

Head rig carriage hydraulics. The head rig is the first saw in a mill and rough cuts a whole log for further processing.

**Oil type:** Castrol Hyspin 46  
**Volume:** 200 L

### THE PROBLEM

The mill had high costs servicing and replacing servo control valves and was losing production due to unscheduled down time. The pressure line cartridge filters were regularly being replaced but the system still had a high particle contamination.

### THE SOLUTION

**CJC™ Fine Filter HDU 15/25 PV** with a flow rate of 45 L/hr, using **CJC™ Filter Insert BG 15/25**.

### THE TEST

The CJC™ HDU 15/25 Filter was installed during a weekend shut down. A recommend ISO Code for servo systems of 16/14/11 was aimed for.

### THE RESULT

In 3 months operation the ISO Code has dropped from 18/16/12 to an ISO Code 16/14/11. There have been no pressure filter changes, servicing / replacement of the servo vales or any unplanned production stops due to hydraulic problems.

### FINANCIAL BENEFITS

The CJC™ Fine Filter has paid for itself in 3 months.

### COMMENTS

**Mr. Jeff Honeyfield**

*The hydraulic servo valves are no longer failing due to contaminants in the oil. We have made huge savings on the components and labour along with mill downtime relating to the servo setworks on the bandsaw log carriage.*



*The Hydraulic Power Pack at Taranaki Pine, New Zealand with the CJC™ Fine Filter HDU 15/25 PV installed*

### THE RESULT

Date	25.12.09	12.02.10
Particles, 4 µm	250,000	64,000
Particles, 6 µm	64,000	16,000
Particles, 14 µm	4,000	2,000
ISO Code 4406 *)	18/16/12	16/14/11

ISO Class 4406/1999, per 100 ml

### PARTICLE DEVELOPMENT

