



**CLEAN OIL
BRIGHT IDEAS**

Lubrication Oil Can Manufacturing - Steel/Aluminium Rolling Machines

CJC™ Application Study

**Application Study
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Ball Packing Europe

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CUSTOMER

Ball Packaging Europe, NL (formerly Continental Can Benelux BV).

THE SYSTEM

Machine lubrication oil for Wall Ironing Machines (manufacturing of cans by means of rolling steel plate).

Machines: Alcoa/Ragsdale type CR24 & CR26,5.

Oil: Mobil Vactra Extra Heavy.

THE PROBLEM

Prior to the installation of CJC™ equipment oil cleanliness levels were typically 22/20/17 (ISO) and > 2% water content causing a water oil emulsification.

The high volume of emulsified oil made it unfit for further use. The high surrounding temperature also accelerated bacteria growth.

The yearly oil consumption was approximately 80,000 litres.

THE SOLUTION

A purpose built unit was installed consisting of a dual tank **Desorber D38** along with a **CJC™ Fine Filter HDU 2x27/54 P** with a flow rate of 1,400 ltr/hr, fitted with **CJC™ Filter Insert B 27/27**. The filter was also fitted with an automatic water content monitor.

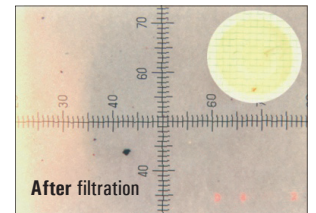
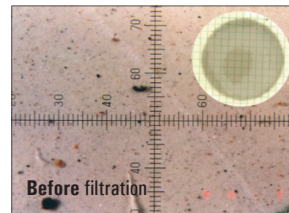
Oil is collected in drip trays and pumped to a storage tank (1,000 ltr.) The oil is then pumped through the Desorber D38 to remove the water. Once the water monitor indicates < 300 ppm the oil is transferred through the Fine Filter for particle and resin removal.

THE RESULT

Due to the success of the CJC™ equipment Ball Packaging Europe reduced the net consumption of oil to 30,000 ltr/year, thus saving 50,000 ltr. of oil/year. Depending on the oil price typical savings can be EUR 68,340.



The CJC treatment unit at Ball Packaging Europe



THE RESULT

	Particle count Acc. ISO 4406	Water content	Appr. annual cost Euro
Before	22/20/17	> 20,000 ppm	134,320
After	17/15/12	52 ppm	65,980