CLEAN OIL
BRIGHT IDEAS

# Hydraulic Oil
# Chamber Filter-Press, Waste Management

## CJC™ Application Study

**Application study written by:**

Jürgen Pietsch,
Karberg & Hennemann GmbH & Co. KG
Germany

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### CUSTOMER

**Waste Management of the City of Friedberg**
Friedberg, Germany.

### THE SYSTEM

**Application:** Chamber filter-press
**Manufacturer:** Pettkus Wutha
**Oil Volume:** 70 L
**Oil Type:** Esso Nuto H32

### THE PROBLEM

Due to the humid surroundings of the press, a constant water ingress into the hydraulic system was unavoidable. In addition, the filter cakes falling out of the press caused a high dust load in the air, especially during summer.
The immense contamination of the oil lead to blocking valves and high wear at the pumps. This made a biannual hydraulic service necessary, which caused high overhaul costs.

### THE SOLUTION

A CJC™ Fine Filter was installed for trial, in order to enhance oil cleanliness and remove water.

**CJC™ Fine Filter HDU 15/25 P** with a flow rate 21 L/h using **CJC™ Fine Filter Insert BG 15/25** with a filtration ratio of 3 $\mu$m absolute and a dirt holding capacity of 1.5 L.

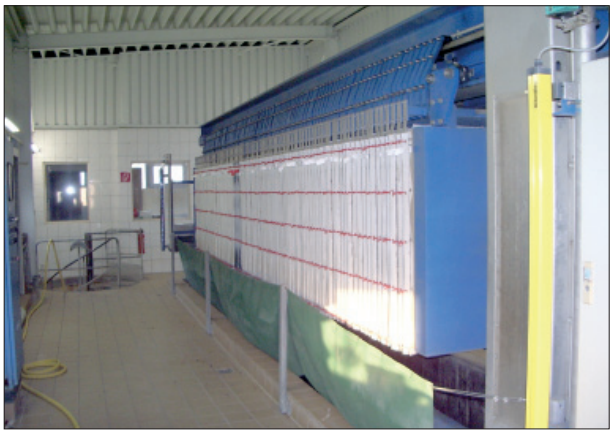
### THE RESULT

After installation of the CJC™ Fine Filter, oil contamination was reduced dramatically and the water content was reduced below the required limit. The ingressing water was removed from the oil. Because of the successful test, the customer decided to buy the **CJC™ Fine Filter.**

Since installation of the Fine Filter in January, the facility had no downtime and no hydraulic service has been necessary (Status: Sept. 09).

### ADVANTAGES

- Cleaner oil
- Low water content in the oil
- High system reliability
- Minimised maintenance



*Chamber filter-press*
*at Waste Management of Friedberg, Germany*

*CJC™ Fine Filter HDU15/25 P*
*installed at hydraulic tank of a chamber filter-press*

### THE RESULT

| | 09.01.09 After 4 days of CJC™ Filtration | 15.01.09 | 27.01.09 | 23.02.09 |
|---|---|---|---|---|
| **Particles > 2 $\mu$m** | 334,776 | 25,974 | 16,835 | 11,063 |
| **Particles > 5 $\mu$m** | 90,072 | 11,544 | 7,215 | 3,848 |
| **Particles > 15 $\mu$m** | 3,051 | 433 | 625 | 799 |
| **Contamination class acc. to ISO 4407** | 19/17/12 | 15/14/9 | 15/13/10 | 14/12/10 |
| **Water content,** ppm | 123 | 95 | 223 | 109 |



**C.C.JENSEN A/S**
Løvholmen 13 • DK-5700 Svendborg • Denmark
Phone: +45 6321 2014 • Fax: +45 6222 4615
filter@cjc.dk • www.cjc.dk