



CLEAN OIL  
BRIGHT IDEAS

# Quench Oil Quench Oil Oven

## CJC™ Application Study

Application Study  
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### CUSTOMER

**Teeness AS**, Trondheim, Norway, Manufacturer of drill heads for the oil industry.

### THE SYSTEM

AICHELIN Quench Oven with an oil volume of approximately 1,000 L.

**Oil type:** ISO-Rapid BP 277 HM.

### THE PROBLEM

The primary problem was when the oil had been in use for approximately 12 months, the treated items got black spots on their surfaces.

The reason for that was that free carbon deposits, developed during the treatment, bonded to the surface. To avoid this it was necessary to change the oil after some months.

### THE SOLUTION

**CJC™ Fine Filter HDU 27/108 PM** with a 120 L/h pump for circulation of the oil in the oven. For particle removal a **CJC™ Filter Insert 4 x A 27/27** ( $3\mu$  abs.) is fitted in the filter unit.

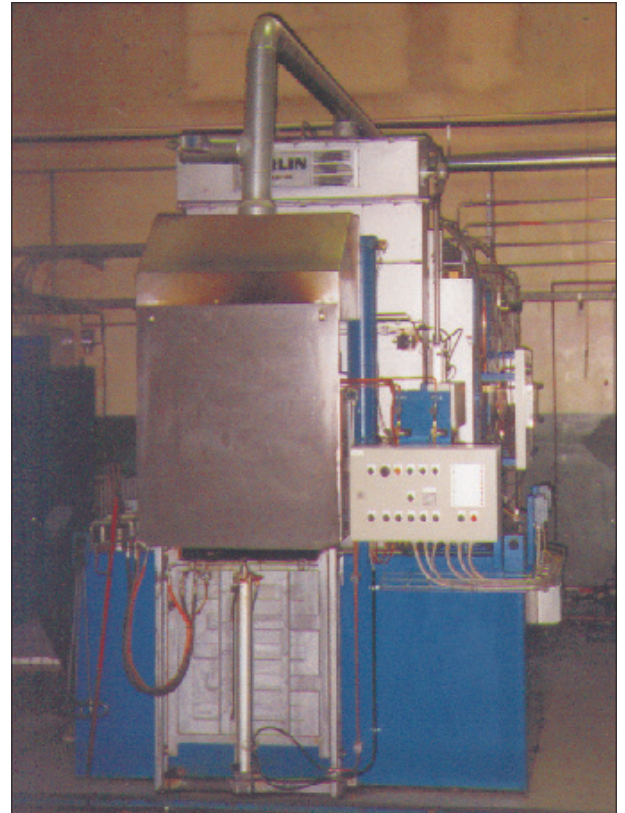
The cellulose based insert is capable of absorbing water and filtering carbon deposits from quench oil constantly ensuring dry and clean oil.

### THE RESULT

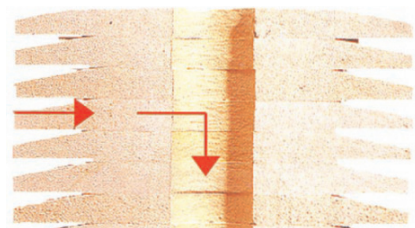
Old and used quench oil was pumped into a container for settling and filtered back into the oven. The filter was installed for continuous recirculation of the oil in the oven.

Since the installation, the oil has been in use for 2.5 years, and the hardened items still look excellent.

**Yearly savings:** EUR 3,100 - 3,700.



*Teeness AS, Trondheim, Norway*



*Cut through of CJC™ Filter Insert.  
All CJC™ Filter Insert are depth filters  
filtering from the outside and in.*

### COMMENTS

*Olav Harøy, Teeness:*

*"The filtration with CJC has led to an improved surface finish of the treated items and savings on the oil."*