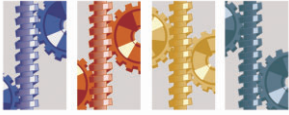




OIL FILTRATION SYSTEMS

CJC™ Application Study

Quench Oil - Quench Oven



INDUSTRY

*Application Study
written by:
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Denmark*

2001

CUSTOMER

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

THE SYSTEM

IBSEN Quench Oven with an oil
volume of approximately 1,000
liters.

Oil type: ISO-Rapid BP 277 HM.

THE PROBLEM

The primary problem was that when
the oil had been in use for approx-
imately 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

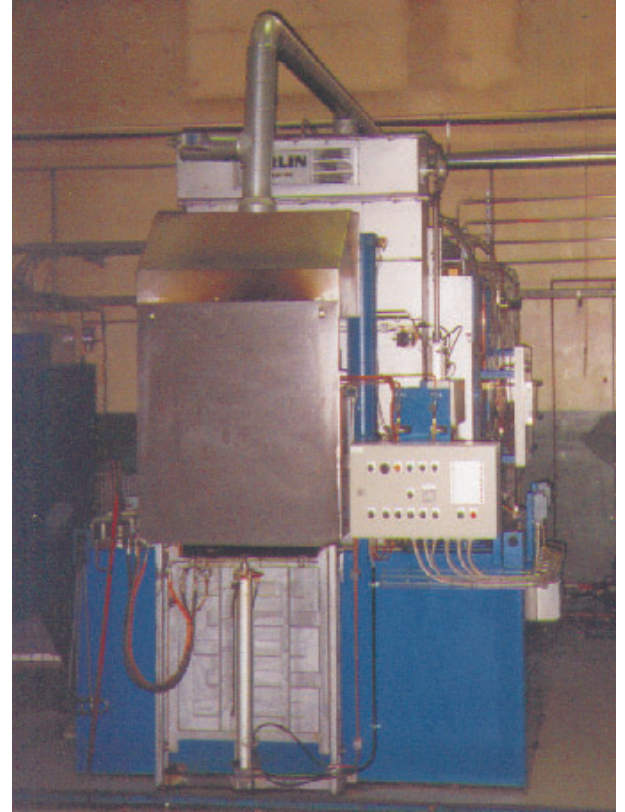
**CJC™ FineFilter HDU 27/108
PM** with a 120 L/h pump for
circulation of the oil in the oven. For
particle removal a **CJC™ Filter
Insert A4 x 27/27** (3μ abs.) is fitted
in the filter unit.

The cellulose based element is
capable of absorbing water and fil-
tering carbon deposits from quench
oil constantly ensuring dry and
clean oil.

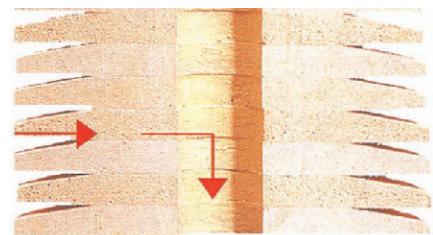
THE RESULT

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™ FilterInsert.
All CJC™ FilterInserts are depth filters
filtering from the outside 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"*

