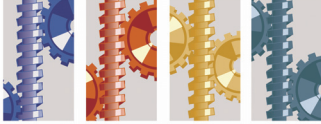




C.C.JENSEN

OIL FILTRATION SYSTEMS



INDUSTRY

*Application Study written by:
Jan Foged C. C. JENSEN A/S
in cooperation with
Eric Kuijs, Project Engineer
Corus Packaging Plus
&*

*Rinco Voorrips, Project Engineer
Fluid Power & Lubrication
Corus Strip Products IJmuiden*



CJC™ Application Study

Cold Rolling Mill, Hydraulic Roll Force System,

CUSTOMER

CORUS Packaging Plus, IJmuiden, Netherlands (formerly known as Hoogovens IJmuiden)

THE SYSTEM

(270 bar) A hydraulic servo system for the roll force operation used on the cold rolling mill no. 11. System capacity: 6,000 litres of Hydran BE 32 oil.

THE PROBLEM

Prior to the installation of the CJC™ Filter, a vacuum purifier had been connected to the system. However, the water content in the oil was still 0.365 %, thus causing serious problems to the hydraulic system. Furthermore, the system suffered from a high particle contamination (ISO code 18/17/15), 45 % of which had been formed through oxidation of the oil.

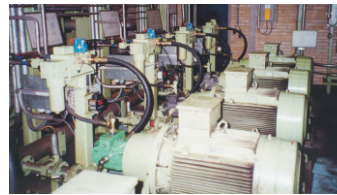
THE SOLUTION

A CJC™ Filter Separator type PTU3 27/108 MZ-EPW with a pump flow rate of 960 l/h was installed for continuous circulation of the oil tank. The unit utilizes four off CJC™ Filter Insert type BLAT 27/27 (3 µm absolute) and a CJC™ Coalescing element for water separation.

The purpose of installing the CJC™ Filter Separator was to continuously maintain a low water content, and remove solid particles and oxidation residuals (resins).

THE RESULT

The CJC™ Filter Separator reduced the water content down to 74 ppm and diminished the solid particles content to ISO code 12/11/6. The incidental damage of a leaking cooler was also neutralized as the separator removed the water as soon as it entered the tank.

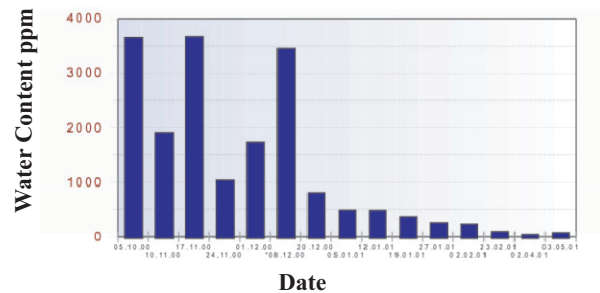


THE RESULTS

Date	Water Content PPM	ISO Code
05.10.00	3,650	18/17/15
24.11.00	1,041	15/14/10
08.12.00*	3,462	15/14/11
20.12.00	810	14/13/10
03.05.01	74	12/11/6

* Leaking cooler

CORUS Packaging Plus
Water Content in oil



C.C.JENSEN

C.C.Jensen A/S * Løvholmen 13 * DK-5700 Svendborg * Denmark
Phone: +45 63 21 20 14 * Fax: +45 62 22 46 15
E-mail: filter@cjcdk * Web: www.cjcdk