

Application Bulletin

PULP & PAPER



Application

In the press section of a paper machine, the controlled crown roll (CCR) uses sophisticated hydraulics to adjust the shape of the press rolls to ensure the correct sheet water removal and thickness.

Problem

A paper mill was experiencing downtime and maintenance costs due to CCR servo valve failures. The ISO 4406 cleanliness code of the oil was 18/17/16 using commodity glass fiber filtration.

Solution

Fit 1 x Pall **Ultipleat** SRT UR319 series 20" length 'AP' grade ($\beta_{5(c)} > 1000$) filter assembly to replace the existing '5 μ m' filter.

Although the Pall filter has a similar '5 μ m' numerical micron rating it is certified to a higher efficiency rating of $\beta_{5(c)} > 1000$.

Results

- The ISO 4406 cleanliness code of the oil has improved to 14/11/6, better than the mill has been able to achieve before
- Servo valve failures due to particulate contamination have been significantly reduced

Crown Roll Upgrade uses **Ultipleat**® SRT filters



Pall **Ultipleat** SRT UR319 Series filter assembly

Contact us at www.pall.com