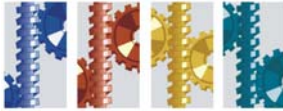




OIL FILTRATION SYSTEMS

CJC™ Application Study

Lubricating Oil - Sunds Refiner



INDUSTRY

*Application Study
written by:*

*Rick Klassen
Klassen Specialty
Hydraulics Inc., Canada*

2005

CUSTOMER

Catalyst Paper, Elk Falls
Division in Campbell River,
BC, Canada.

THE SYSTEM

Sunds pulp refiner, 250 Litres of
Chevron 68 Gear Compound
oil.

THE PROBLEM

In October 2005 Catalyst
performed a full rebuild on their
P4 Sunds refiner. Since the
system was very contaminated
from the rebuild, they decided
to try a CJC portable
FilterSeparator to remove the
particulate and water from the
system during startup.

THE SOLUTION

For this application we selected
a CC Jensen **PTU2 27/27 PV-
EW** FilterSeparator, fitted with
a 3 micron absolute **BLAT
27/27** FilterInsert, and mounted
on a heavy-duty cart to handle
the tough environment of a
paper mill. For ease of
portability, this unit was set up
for 110 Volt input power.

THE TEST

Three oil samples were taken
over the course of 48 hours and
their results compared.

THE RESULT

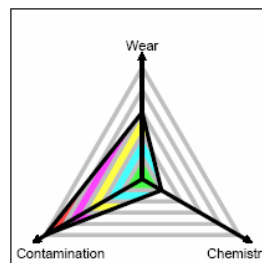
After 24 hours of filtration,
the particles in the 2 µm range
dropped by 93%; after 48 hours
the count was roughly 1% of
the original value. Similarly,
water content went from 1,639
ppm to virtually zero.



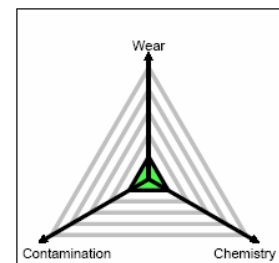
PTU2 27/27 PV-EW on Sunds Refiner

THE RESULT

	0 Hrs	24 Hrs	48 Hrs
ISO Code	23/19/15	19/16/13	16/14/11
Particles (2 µm)	45,343	3,196	510
Particles (5 µm)	4,160	604	109
Particles (15 µm)	183	44	14
Water (ppm)	1,639	14	< 1



Before



After

High Fault
Low Fault

High Alert
Low Alert

Normal