Hydraulic Oil
Hydraulic Power Pack, Debutter, Sawmill

CJC™ Application Study

CUSTOMER
BALCAS Timber Ltd. Largest sawmill plant in Ireland.

THE SYSTEM
Hydraulic power pack for the debutter system.
A debutter (a butt end reducer) shaves off the flare on a log to leave it parallel and therefore easily cut. The hydraulic power unit drives all the movements of this process.
Oil Type: GEM 46
Volume: 600 Litres

THE PROBLEM
Sticking servo valves, that had to be cleaned every week, gave a lot of maintenance work on this power pack. The particle level was high, mainly due to the harsh environment. The system further suffered from a high level of varnish/resin that caused the valves to stick.

THE SOLUTION
Due to the contamination level, a **CJC™ Fine Filter unit 27/27,** using a **CJC™ Fine Filter insert B 27/27** was installed.
Dirt holding capacity: approx. 2 kg
Water absorption capacity: approx. 0,9 L

THE TEST
After years of running with high temperatures and dirty oil, it took a very long time to clean the system and reach a good oil cleanliness. The first filter insert was saturated after approx. 3 months.

THE RESULT
After installation of the CJC™ Fine Filter unit 27/27, the results were reduced from ISO Code 21/20/17 to ISO Code15/14/9 meaning a reduction on 2 µm count from just under 2,000,000 to 21,000 e.g. **a reduction factor of almost under 100** - making cleaning of the servo valve unnecessary.

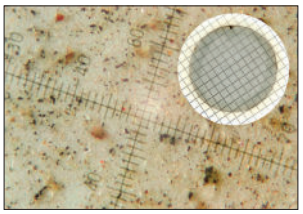
COMMENTS
Since the installation of the CJC Offline Filter we have never had to clean or to do maintenance on the valves.

BALCAS Timber Sawmill

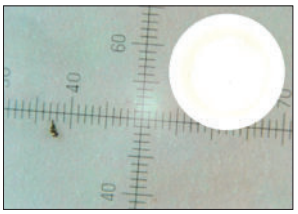
CJC™ Fine Filter unit 27/27

A used and saturated CJC™ Fine Filter insert

OIL SAMPLE

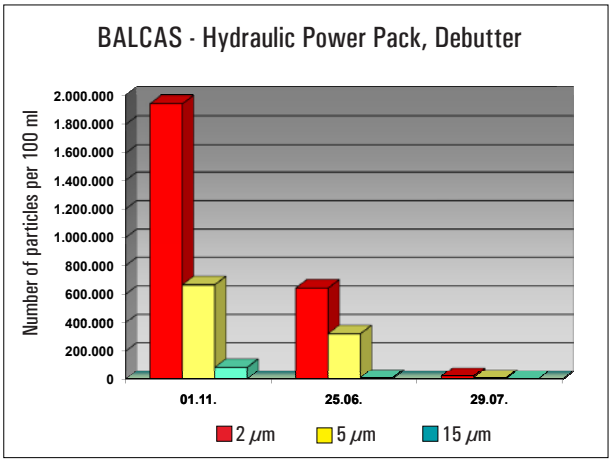


*Oil Sample - **BEFORE***



*Oil Sample - **AFTER***

THE RESULT



	01.11.	25.06.	29.07.
Particles > 2 µm	1,943,240	642,333	21,164
Particles > 5 µm	665,801	320,668	8,658
Particles > 15 µm	87,514	10,357	350
ISO Code *)	21/20/17	20/19/14	15/14/9

**) Further information on cleanliness classes are availabe on request.*

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