



CJC® Application Study

CUSTOMER

Bayerische Motoren Werke Aktiengesellschaft,
Munich, Germany.

SYSTEM

Fully mechanized press line for manufacturing of car body panels, press line GP-114

Manufacturer: Müller Weingarten

Oil volume: approx. 3,500 litres each press

Oil type: Hydraulic oil HLP 46

PROBLEM

The enormous amount of impurities in the oil lead to wear and tear on the hydraulic presses. Especially on the valves problems were noticed. Switching errors of the valves resulted in downtimes and high maintenance and repair costs.

SOLUTION

For testing purposes two older presses were each equipped with a CJC® Oil Care System 38/100. For removal of contaminants and water the fine filter units were each fitted with a **CJC® Fine and Depth Filter Insert B 27/100** (3 µm absolute).

Dirt holding capacity: up to 39 kg

Water absorption capacity: > 3.4 L

TEST

The first oil sample was taken on 8th January, and the second one after 3 months on 9th April.

The oil cleanliness class was improved from 23/23/13 to 19/14/10 (according to ISO 4406) – new oil quality.

RESULT

The oil cleanliness was significantly improved and remained at this good cleanliness level due to the continuous offline fine filtration. As a result of the longer oil life time and the saved regular oil analysis for monitoring the oil cleanliness maintenance and operating costs could be reduced.

Due to the good results during testing period the 6 presses of press line GP-114 (no. 1141 till 1146) were each fitted with identically constructed CJC® Fine Filter units type 38/100.

Considerably less downtimes caused by switching errors of the valves or damages on sealings occurred and consequentially repair costs decreased and the output of the machine increased.



Press line GP-114 at BMW in Munich



Press line GP-114 with in total 6 installed
CJC® Fine Filter units 38/100

RESULT

	BEFORE Oil sample dated 08.01.	AFTER fine filtration Oil sample dated 09.04.
ISO 4406 *)	23/23/13	19/14/10
Water content	33 ppm	12 ppm

*) Further information on cleanliness classes is available on request.

COMMENT

Maintenance department, Pressing plant, BMW AG in Munich:
"The CJC Fine Filters work very satisfactorily. The filter inserts only have to be replaced each 12 months."