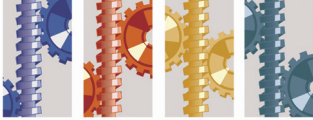




C.C. JENSEN

OIL FILTRATION SYSTEMS



INDUSTRY

*Application Study written by
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CJC™ Application Study

Automotive Industry

Lube oil system on clutch brake on excenter press

CUSTOMER

Nissan Motor Manufacturers Iberica,
S. A., Barcelona (Spain)
Contact person: Mr. Carlos Sala,
Press Shop Maintenance Manager

THE SYSTEM

The clutch brake lube oil system on a
HITACHI XX ton Excenter Press.
Fitted with 25 µm pressure filter.
System Volume: 200 litre. - ISO VE
220 oil.

THE PROBLEM

The clutch brake system is
continuously exposed to overheating
from the breaking process as well as
high ingress of abrasive particles from
the wearing break rads. This leads to
resin formation in the oil, and short
lifetime. Even the new oil is heavily
contaminated.

THE SOLUTION

The installation of an off-line Fine
Filtration System. The CJC HDU
15/25 PV-P with a 45 l/h flow was
installed. The filter is fitted with the
BG 15/25 cellulose insert filtering to 3
µm absolute. The insert also removes
resin and condensation water by
absorption.

THE TEST

The filter was installed after a major
overhaul at which new oil was
installed. The first oil sample was
taken directly from the oil drum, the
second from the lowest point of the oil
system after one months operation. .

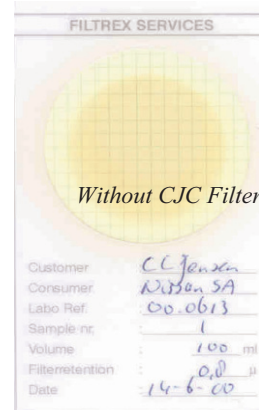
THE RESULT

The filtered oil is 40 times cleaner than
the new oil. Theoretically this is
equivalent to the mechanical
component lifetime being extended
more than 4 times.

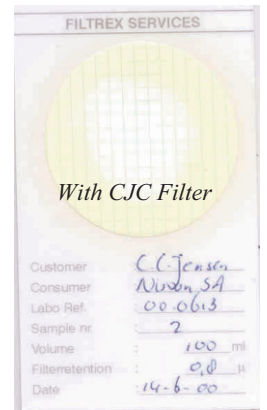
After this test it has been decided to
install CJC filters on all 18 presses in
the Barcelona plant. Successful tests
such as this have also been conducted
on the hydraulic systems.



Press



Without CJC Filter



With CJC Filter

THE RESULTS

Particle size	New oil	After one month
2 m	1,339,104	33,199
5 m	26,512	15,667
15 m	38,149	427
Water	167 ppm	60 ppm
Resin colour	Yellow	White



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