

CJC™ Fine Filters

Solutions for removal of particles, water, acid
and oil degradation products
from oils and other fluids

- a must-have for your oil system!



80% of all breakdowns in
oil systems are related to
contamination of the oil



Your Challenge

80% of all breakdowns in oil systems are related to contamination of the oil
- avoid expenses on repairs and oil changes

In-line filters do not keep the oil system clean

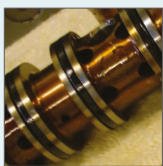
Contamination of an oil system leads to various problems which can result in machine downtime, frequent repairs of equipment and reduced oil lifetime. All of which means inefficient production and unnecessary expenses spent on repair and oil change.



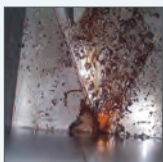
Abrasion on gear



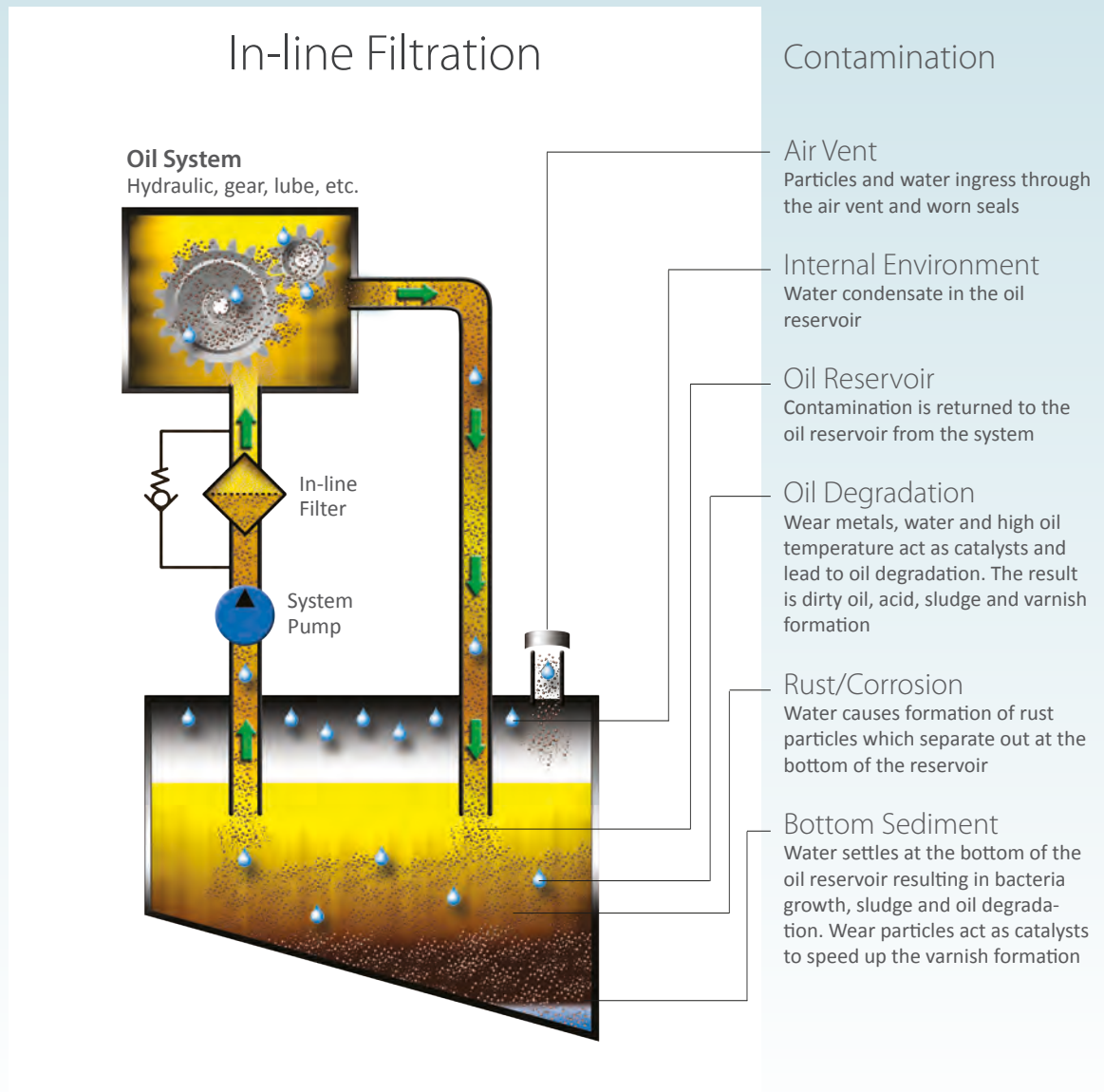
Pitting on bearing



Varnish on valve



Sludge in tank



The most common types of wear caused by contamination

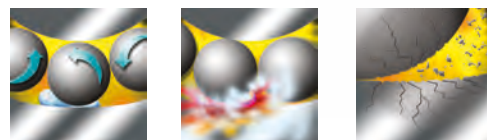
"Sand blasting"

When particles are transported with the high oil flow, the particles collide with metal parts, destroying the metal surface and forming new particles.



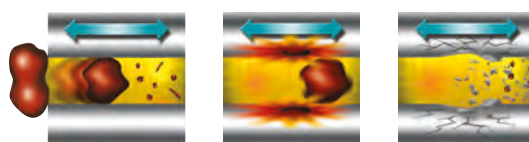
Cavitation & pitting

Occurs in areas where water is present and oil is compressed; the water implodes, causing the metal surfaces to crackle and release more particles.



Abrasive wear

When clearance size particles are wedged between movable metal parts, they destroy the metal surface.



Our Solution

Clean oil and guaranteed success through offline filtration
- we offer highly qualified technical back-up

One Filter - 4 Solutions

CJC™ Filter Inserts have a 3 µm absolute filtration ratio and will remove particles, water, acid and oil degradation products in one and the same operation. The CJC™ Filter Insert has a very large dirt holding capacity. The CJC™ products are almost maintenance free and have a very low cost of operation.



HDU 15/12



HDU 15/25 PV



HDU 27/27 P



HDU 2x27/108 P

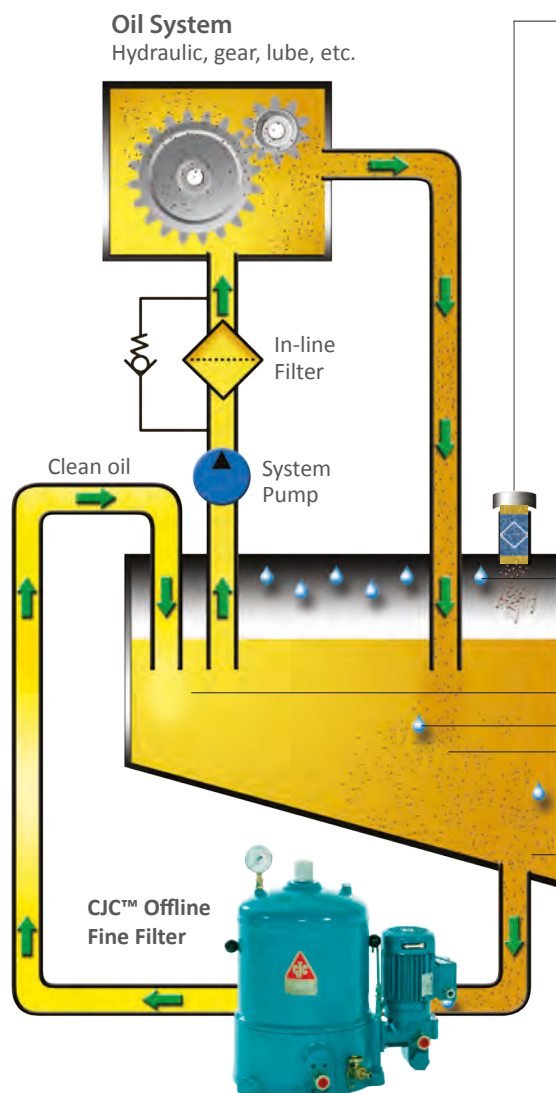


HDU 427/108 P



Marine Lube
Oil Purifier

Offline Filtration



Contamination
now under control

Air Vent
Contamination can be reduced by adding an air breather filter that eliminates particles and moisture

Internal Environment
Water still condensates in the oil reservoir, but with the CJC™ Fine Filter it will be absorbed

Oil Reservoir
Clean oil from the CJC™ Fine Filter is returned to the oil reservoir - ready to be used in the system

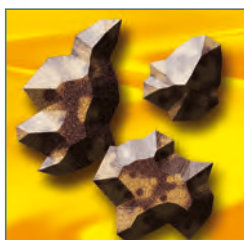
Oil Degradation
The risk of developing acids, and oxidation by-products has been considerably decreased

Rust/Corrosion
Contamination is still being created but is removed by the CJC™ Fine Filter

Bottom Sediment
Water and particles no longer settle. No more bacteria or varnish



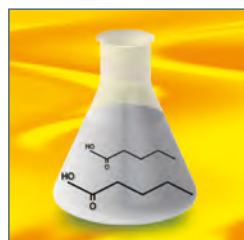
The most common types of contamination sources



Removal of Particles
Particles down to 0.8 µm are retained in the filter mass



Absorption of Water
The cellulose fibres in the filter mass absorb the water



Removal of Acid
Special inserts neutralise acidic components in the fluid



Adsorption of Oxidation
Sludge/varnish in the oil is attracted to the polar sites of the filter mass and is retained there

Our Product

CJC™ Fine Filters - simple, effective and low maintenance
- will guarantee your success!

Key Features of the CJC™ Fine Filters

The CJC™ Fine Filters are offline depth filters for hydraulic and lubricating oils
- to all sizes of oil systems.

Our product range covers solutions for systems containing from 2 litres to
above 200,000 litres - ensuring clean oil and your success.

Pressure Gauge
The CJC™ Filter Insert
must be replaced at least
once a year or when
pressure gauge reaches
max. 2 bar

CJC™ Filter Insert
Increased lifetime of your
in-line filter

Sampling Valve
For oil sampling
Check your oil contami-
nation frequently

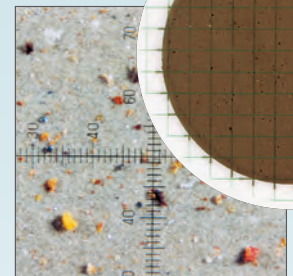
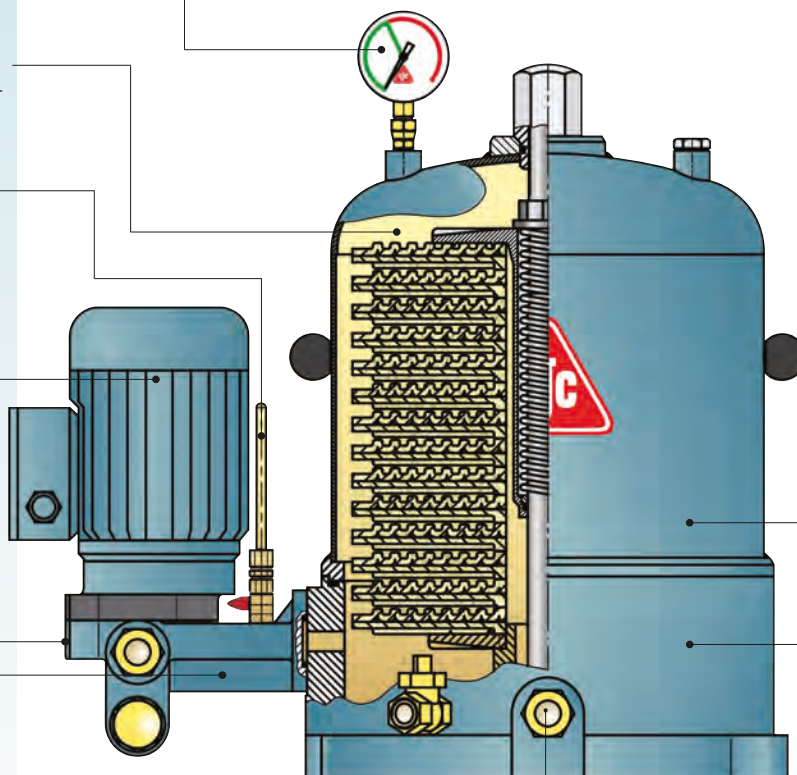
Electrical Motor
Low energy consumption

Oil Inlet
Easy to connect
with hose

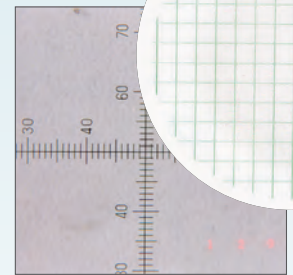
Pump
Reliable gear wheel
pump, robust design
incorporating a
bypass safety valve

Oil Outlet
Clean oil returns to
the reservoir and the
oil system

Main Components HDU 27/- Series



Oil sample, **before** installation
of a CJC™ Fine Filter



Oil sample, **after** installation
of a CJC™ Fine Filter

Filter Housing
Easy to service
- only one top nut

Filter Base
Designed for quick
mounting



Dirty and clean
CJC™ Filter Inserts

The CJC™ Filter Insert system

The modular built-up of the CJC™
Filter Inserts means that a
CJC™ Fine Filter can be
designed to fit any
applications and
requirements



Insert
15/12



Insert
15/25



Insert
27/27



Insert
2x27/27
(27/54)



Insert
3x27/27
(27/81)



Insert
4x27/27
(27/108)



Insert
4x4x27/27
(427/108)

Your Benefits

Reduce your maintenance budget, fewer breakdowns, fewer oil changes
- install a CJC™ Fine Filter!

The cleanliness level achieved and maintained by offline filtration means that the predicted lifetime of machine components and oil is expected to be extended 2-10 times! The benefits that you can achieve when implementing CJC™ Offline Fine Filters will have a positive effect on many parameters such as:

Financial Benefits

- Increased uptime
- Reduced maintenance budget
- Fewer unplanned breakdowns and stops of production
- Enhanced operational precision

Less Maintenance

- Increased equipment reliability
- Less wear and increased lifetime of components and oil
- Longer lifetime of in-line filter



Lower Energy Consumption

- Lubricating capabilities remain intact
- Reduced friction

Environment Benefits

- Fewer oil changes
- Reduced top-up of oil
- Less waste oil - less use of natural resources

-all advantages add to increased profit!

Satisfied Customers

WIND:

Mr. Jason de la Tova,
Wind Turbine Specialist,
Windward Energy, USA:



"Your filters are worth their weight in gold!"

MINING:

Mrs. Leanne MacAdams,
Reliability Engineer,
BHP Billiton Iron Ore, Australia:



"This project successfully reduced the contamination level in the crusher to below the target cleanliness level. This has significant impact on the life of the wear components in the crushers."

INDUSTRY:

Mr. Medir Lecha,
Maintenance Chief, RUFFINI, S.A., Spain:



"After knowing C.C.JENSEN Filters and having installed them on our injection machines, we have got the suitable oil quality and reduction of yearly unplanned stops from 18 to 2 times."

MARINE:

Mr. Ivan Seistrup,
Vice President,
Maersk Supply Service,
Denmark:



"Clean Oil is a Must!

The investment optimises performance, reduces the risk of errors and breakdowns, and saves maintenance costs!"

POWER:

Jørgen Brix Andersen,
Studstrupværket,
Elsam, Denmark:



"Oil analyses show, we have achieved cleaner oil, after we have installed CJC™ Filters on our 8 coal mills. The need for oil change is gone, and the risk of a breakdown in the bearings has been extremely reduced. An oil change cost €3,230 per gear."

C.C.JENSEN will back you up
- we have 60 years of experience!

C.C.JENSEN - contact us today!



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Clean Oil - Bright Ideas

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