

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

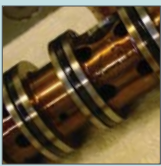
Contamination of an oil system leads to various problems which can result in machine downtime, frequent repairs of equipment and reduced oil lifetime. All of which means inefficient production and unnecessary expenses spent on repair and oil change.



Abrasion on gear



Pitting on bearing



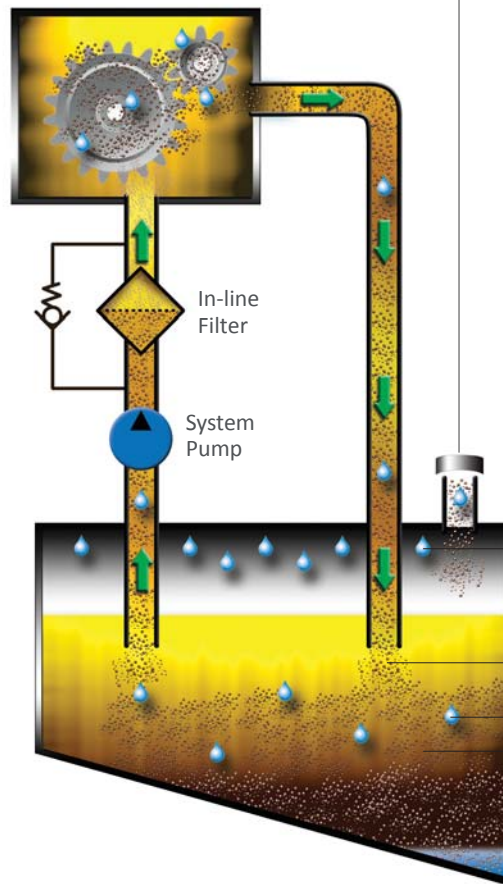
Varnish on valve



Sludge in tank

Principle Drawing of In-line Filtration

Oil System
Hydraulic, gear, lube, etc.



Contamination:

Air Vent

Particles and water ingress through the air vent and worn seals

Internal Environment

Water condensate in the oil reservoir

Oil Reservoir

Contamination is returned to the oil reservoir from the system

Oil Degradation

Wear metals, water and high oil temperature act as catalysts and lead to oil degradation. The result is dirty oil, acid, sludge and varnish formation

Rust/Corrosion

Water causes formation of rust particles which separate out at the bottom of the reservoir

Bottom Sediment

Water settles at the bottom of the oil reservoir resulting in bacteria growth, sludge and oil degradation. Wear particles act as catalysts to speed up the varnish formation

The most common types of wear caused by contamination:

“Sand blasting”

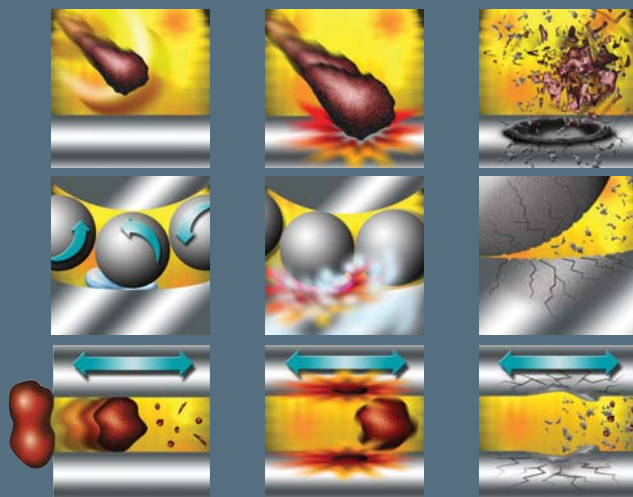
When particles are transported with the high oil flow, the particles collide with metal parts, destroying the metal surface and forming new particles.

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

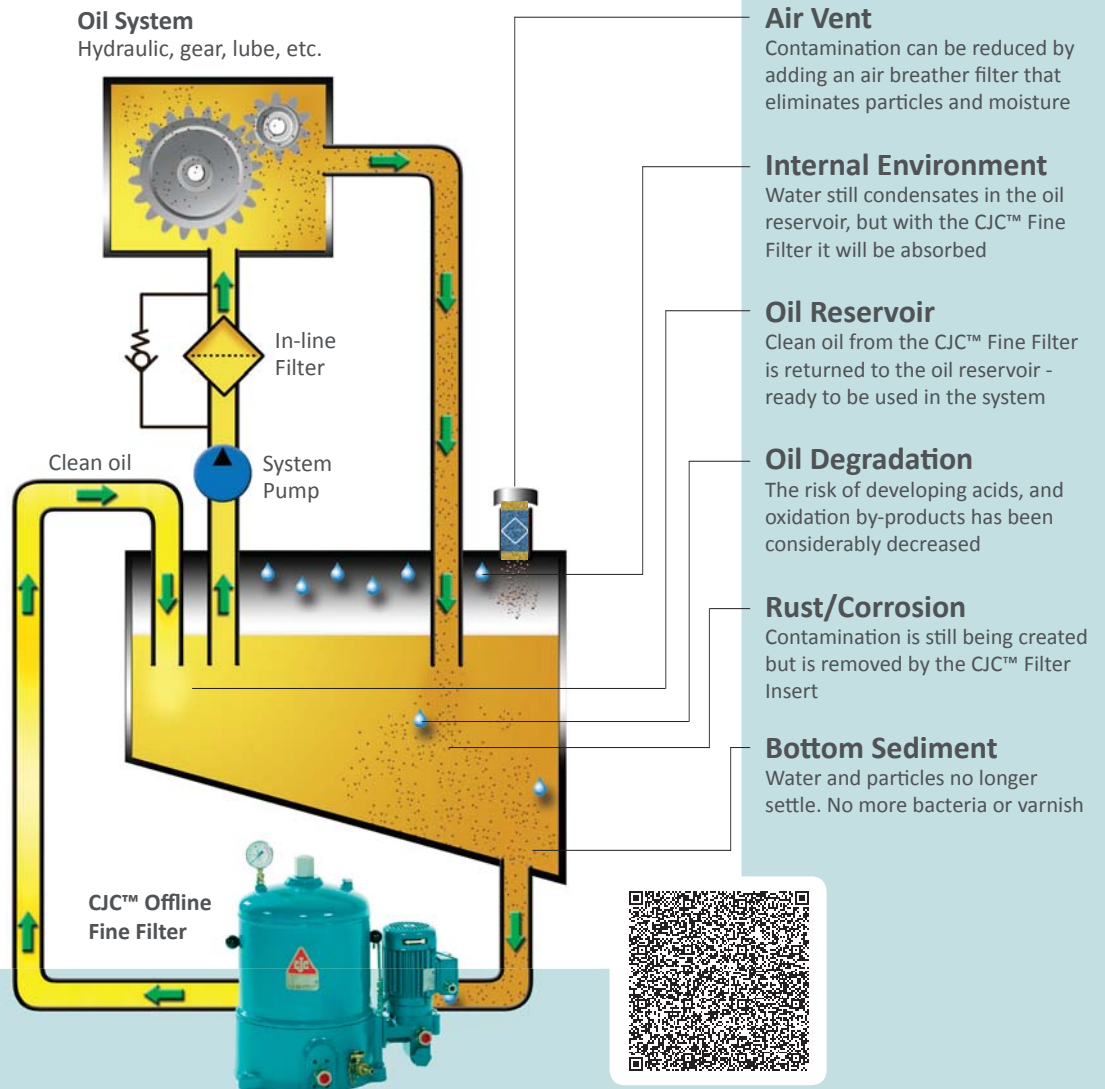


HDU 2x27/108 P



HDU 427/108 P

Principle Drawing of Offline Filtration



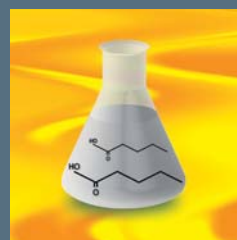
The most common type of contamination sources:



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 are retained there



Our Product

CJC™ 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.

Main Components HDU 27/- Series

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 contamination frequently

Electrical motor

Low energy consumption

Oil Inlet

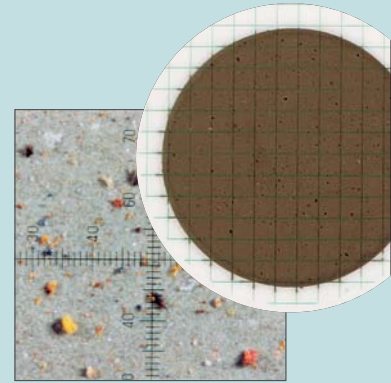
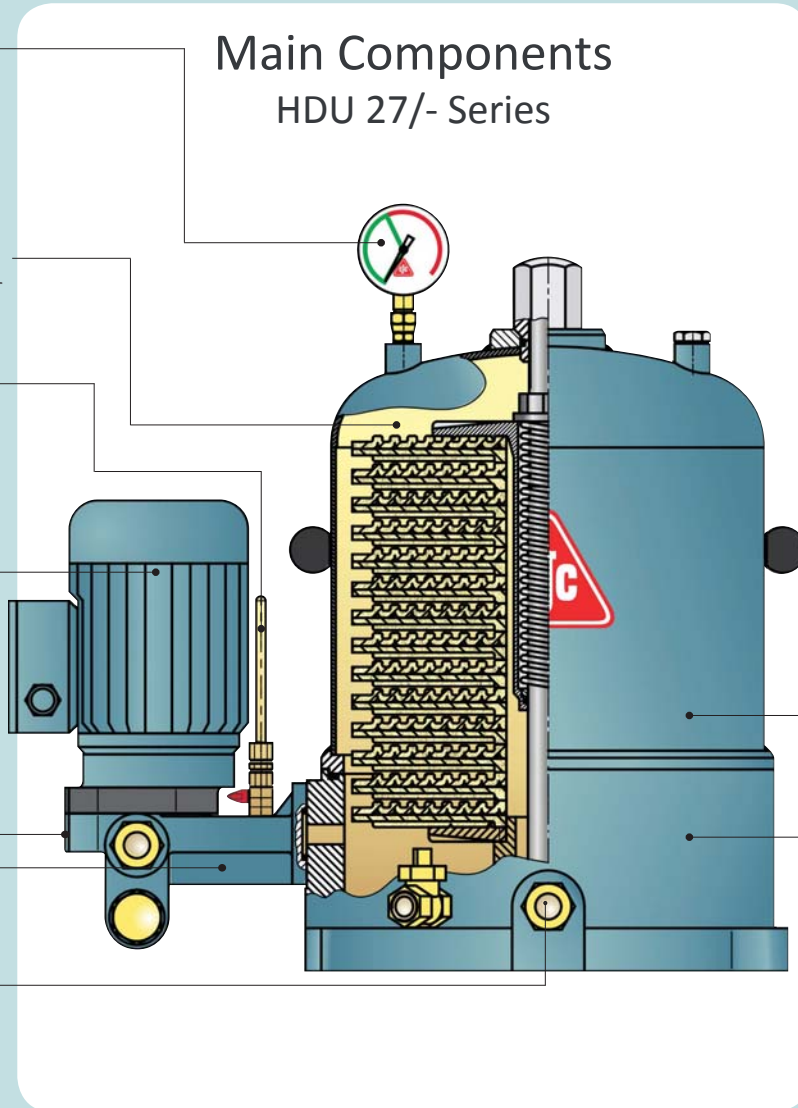
Easy to connect with hose

Pump

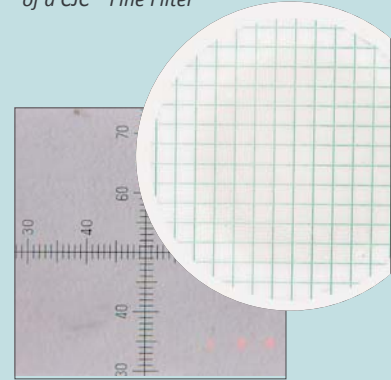
Reliable gear wheel pump, robust design incorporating a bypass safety valve

Oil Outlet

Clean oil is returned to the reservoir and the oil system



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™ 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:



Satisfied Customers

WIND:

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



"Your filters are worth their weight in gold!"

MINING:

Mr. Carlos Baez, Inspector,
Minera El Tesoro,
Antofagasta, Chile:



"Like we also experienced in our crusher lubrication system, the results of the CJC™ Fine Filters are brilliant"

INDUSTRIAL:

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."

Satisfied Customers

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."

Your Benefits of Oil Maintenance

Good for You - Good for the Environment!

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 inserts

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!

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

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C.C.JENSEN

- Contact us Today!



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