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.

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.

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.

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 returns to the reservoir and the oil system

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

Dirty and clean CJC™ Filter Inserts

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 waist 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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