CJC™ Fine Filters

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

- a must-have for your oil system!



80% of all oil related failures and breakdowns arise due to contaminated oil



Your challenge

80% of all oil related failures and breakdowns arise due to contaminated oil - avoid expenses on repairs and oil changes

In-line filters alone do not keep the oil system clean & dry!

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



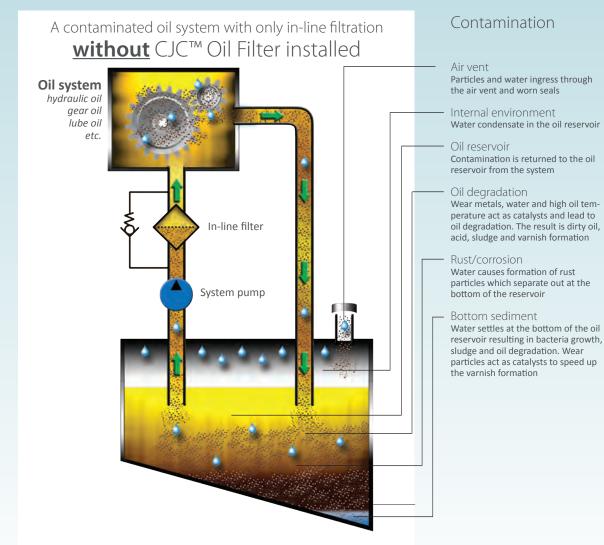
Pitting on bearing



Varnish on valve



Sludge in tank



Most common types of contamination

Particles (abrasive wear / grinding)

When clearance sized hard particles are wedged between movable metal parts, they destroy the metal surface further and can result in additional wear.



Oil degradation

Wear metal, water and high temperatures lead to oil degradation, which is the precursor of varnish. This results in sticky varnish that deposits on metal surfaces.



Water (cavitation & pitting)

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



Acidity

Acidity can be found in oil as by-products of oil degradation, combustion of gas or fuel, hydrolysis of Ester-based fluids etc. The amount of acidity in oil should be limited, since acidity



will cause chemical corrosion of machine components and shorten the lifetime of the oil, just to mention a few of the unwanted effects.

Your natural solution

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

1 Oil Filter - 4 solutions

Installing a CJC $^{\text{TM}}$ Offline Oil Filter solution, you ensure clean & dry oil in you systems, removing both particles, water, acidity and oil degradation products - in one and the same process.



HDU 15/12



HDU 15/25 PV



HDU 27/27 P



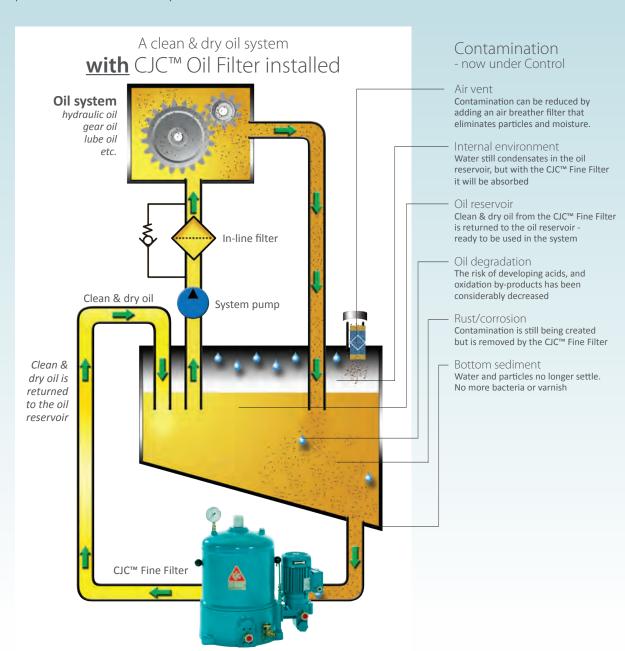
HDU 2x27/108 P



HDU 427/108 P



Marine Lube Oil Purifier



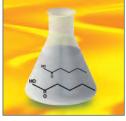
The most common types of contamination sources



Removal of particles Particles down to 0.8 μ m are retained in the filter mass



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



Removal of acidity Special inserts neutralise acidic components in the fluid



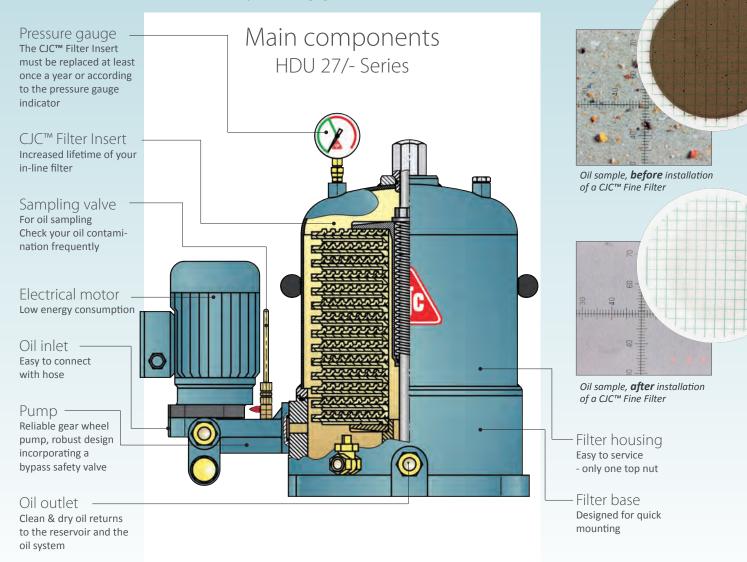
Adsorption of oxidation Sludge/varnish in the oil is attracted to the polar sites of the filter mass and is retained there

Our product

CJC™ Fine Filters - simple, efficient 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 from 2 litres to above 200,000 litres. Our oil filters are installed offline, meaning they are non-system critical (e.g. machinery shutdown is not necessary when changing filter insert.)



The CJC™ Filter Insert system

All CJCTM Filter Inserts have a 3 μ m absolute filtration ratio and will remove particles, water, oil degradation products and acidity. The CJCTM Filter Inserts are produced of **100% natural cellulose fibres** from sustainable resources - no metal, no plastic, no chemicals.

- Particles down to 0.8 μm are retained in the unique CJC™ depth filter media (cellulose).
- Water is removed either by absorption or separation according to oil system requirements.
- Oil degradation products are removed by the attraction to the polar fibers.
- Acidity can be neutralized with ion exchange resin media.



Modular build-up

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



Your benefits

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

The cleanliness level achieved and maintained by oil 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™ 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

Environmental benefits

- Fewer oil changes
- Reduced top-up of oil
- Less waist oil
- Reduced carbon footprint

-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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- or give us a call!

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