

CJC™ Filter Separator

Solutions for separation of water, removal of particles, adsorption of oxidation by-products and varnish from oils











Intended for:

- Diesel Oils Gear Oils
- Hydraulic Fluids
- Various Lube Oils



ROM OIL

Light and Heavy Industry

clean Oil - Bright Ideas





The Problem

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

Problems caused by

Particle and water contamination of an oil system will lead to various problems which can cause machinery breakdowns, frequent repairs of equipment and reduced oil lifetime. This will result in inefficient produc-





Abrasion



Corrosion /Rust



Resin/Varnish



The most types of wear caused by

"Sandblasting"

When particles subjected to high flow velocity are catapulted against metal parts, they destroy the metal surfaces and generate new particles.

Cavitation occurs in areas where water







tion, unnecessary expenses for repairs and frequent oil changes.

Oil System

In-line Filter

System Pump

lúbe etc.

Hydraulic, gear,

Contamination Sources:

External Environment

Water from the external environment is ingressing the system via the elements, high-pressure water blasting, washing etc.

Air Vent

Principle

drawing of

in-line filtration

Particles and water is ingressing through the air vent

Internal Environment

Water condensate in the oil reservoir

Water Produced by Oxidation

High temperature + dirty oil = Acid, water and resin

Rust/Corrosion

Water instigates the formation of rust particles which with resin and particles are accumulated in the oil reservoir

Cooler Leaking Water

A leaking cooler results in water entering the oil reservoir

The water is gathering in the bottom of the oil reservoir



Millipore membrane Sample taken

before off-line filtration



Cavitation

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

Grinding

When hard particles are wedged between movable metal parts, the metal surfaces may deteriorate and be open for further chemical subversion. 2

The Solution

Water and particle free oil through off-line filtration and separation

PTU 15/25



The CJC™ Filter Separators combine depth filtration with water separation and are used for water contaminated lubricating and hydraulic oils.

PTU2 27-27



PTU1 27-54

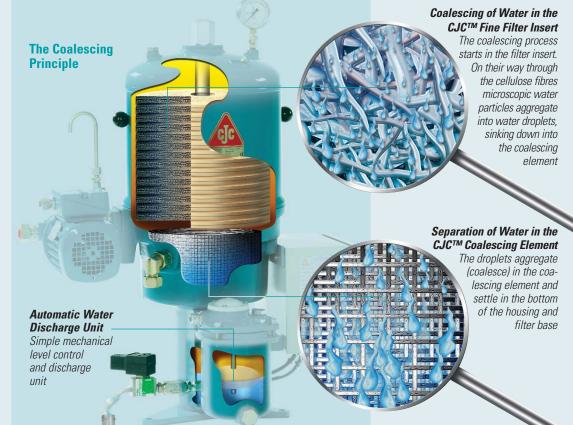


PTU3 27-81

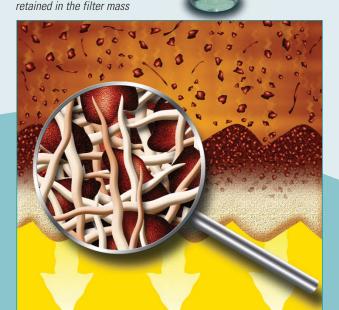


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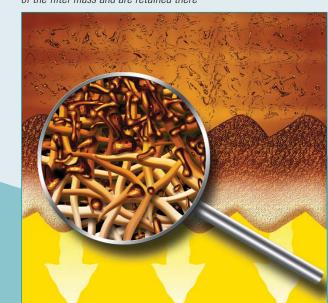




Removal of Particles Particles down to 0.8 µm are



Adsorption of Oxidation By-ProductsResin in the oil is attracted to the polar fibres of the filter mass and are retained there



The Result

Less maintenance, increased productivity and lower energy consumption

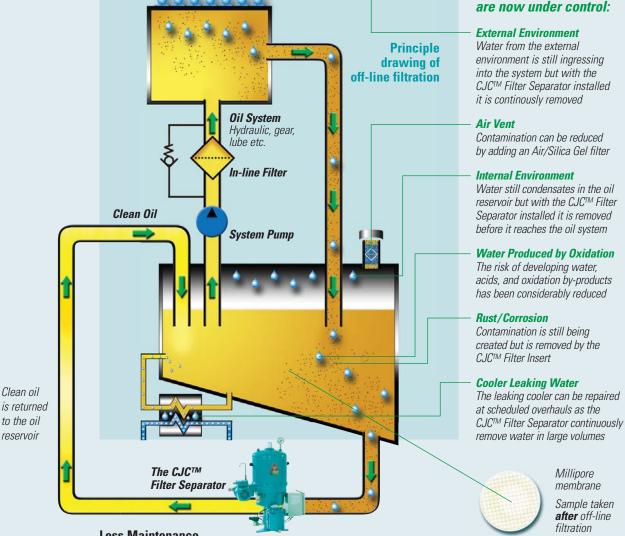
Benefits and of using Separators

Clean oil

to the oil

reservoir

The benefits that you get when implementing a CJC™ Filter Separator will have a positive effect on your maintenance budget as well as increase your productivity and reduce your energy consumption.



Less Maintenance

- Less wear and increased lifetime of components, oil and filter inserts
- Longer time between service intervals
- Enhanced operational precision

Increased Productivity

- Fewer unplanned breakdowns and stops of production
- Leaking coolers can be repaired at scheduled overhauls

Lower Energy Consumption

- Lubricating capabilities remain intact and internal friction is lowered
- Reduced pressure drop over in-line filters
- Viscosity index is kept stable and efficiency is maintained



-all advantages to the total economy!



Millipore

membrane Sample taken after off-line filtration

Water content is now maintai-

ned at low level

Contamination Sources



The CJC™ Filter Separator

The CJC™ Filter Separator is of uncomplicated design and almost maintenance free

Key features of the CJC™ Filter Separators The CJC™ Filter Separators are depth filters for diesel, hydraulic and lubricating oils for all sizes of oil systems.

Pressure Gauge

When the gauge indicates a pressure drop of 2 bar, the filter insert is due for replacement

CJC™ Filter Inserts

3 micron absolute rating

Oil Inlet

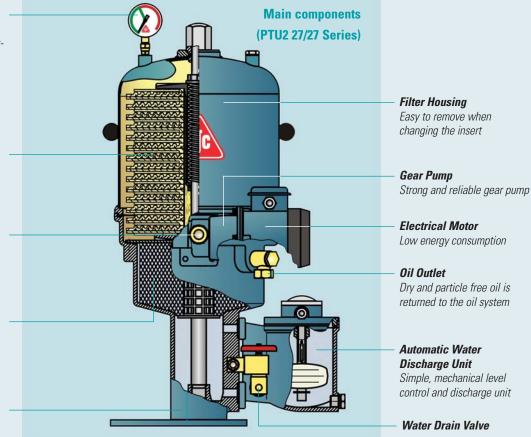
Contaminated oil is entering the filter

Coalescer Element

Cleanable stainless steel

Filter Base

For collecting separated water



The CJC™ Filter Insert System

A used sliced through filter The modular build-up of the CJC^{TM} Filter Inserts insert (sliced half way down) means that a CJC^{TM} Fine Filter can be sized to fit showing the large dirt any applications and requirements







C.C.JENSEN all over the World

The CJC™ off-line Filters are distributed through our own international sales organisation and designated distributors

CJCTM stands for reliable supply all over the



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