



CJC® Oil and Fuel Filtration

Rental Solutions & Services



Constant clean oil and fuel with
customised reliable service & solutions

CJC® Oil and Fuel Filtration

Using a rental solution provides a convenient, economical and flexible response

Why rent a CJC® Offline Oil Filter?

Renting a CJC® Oil Filter is a very flexible and efficient way to remove large amounts of particles, water, oil degradation by-products and acidity from oil and fuel.

Offering a filtration degree of $\leq 3 \mu\text{m}$ absolute combined with the industry's highest dirt-holding capacity ensures long intervals between replacement of the CJC® Filter Inserts. Furthermore, you get the lowest cost per kg contamination removed from oil and fuel.

All rental CJC® Oil Filters are inspected, cleaned and upgraded before rented out to our customers.

You will benefit from solutions that are ready for **plug & play installation**, for which we can offer extended support from our professional service technicians who ensure that you get the most out of CJC® Rental solutions.



CJC® Fine Filter HDU 27/27

Online Condition Monitoring



Oil Contamination Monitor CJC® OCM15

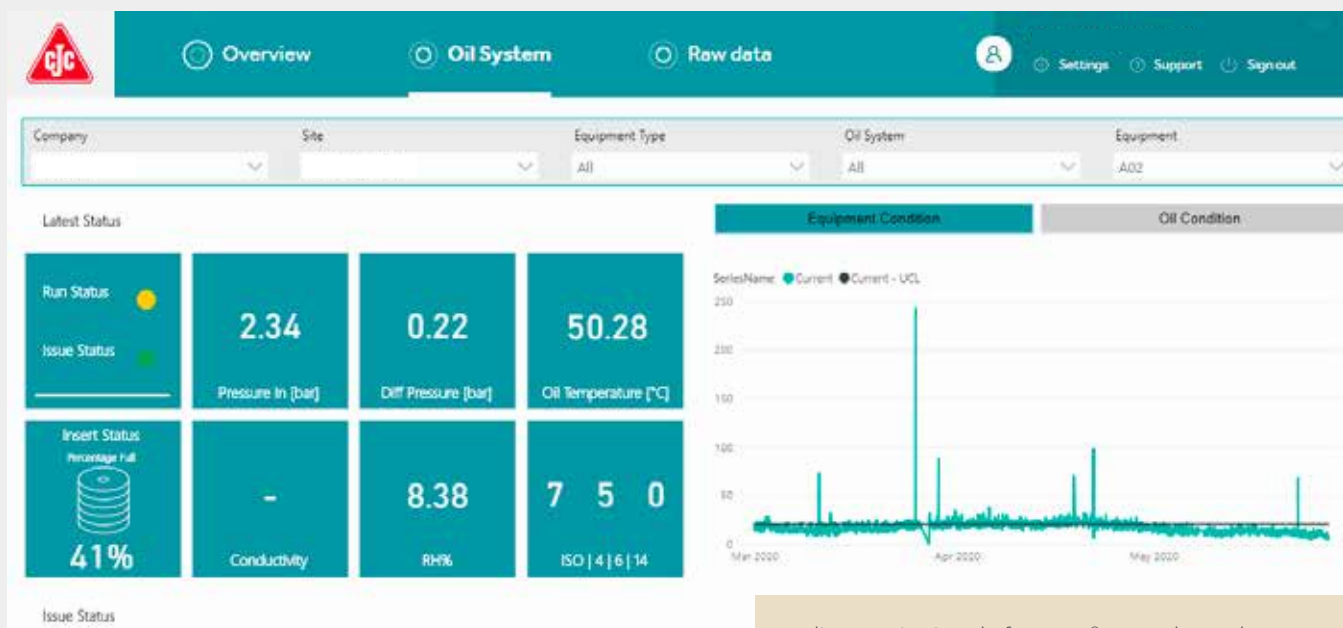
On request, our units include an optional CJC® Oil Contamination Monitor, type OCM15, offering continuous online oil condition monitoring of particles, humidity and temperature in the oil.

Monitoring the smallest micron particles using the CJC® OCM15 gives the earliest possible warning of breakdowns. Major damage can be PREDICTED and PREVENTED by stopping and repairing early in the wear process. Obviously, this will improve PROFIT.

Translated data - proactive warnings

As an option is our surveillance software CJC® T²render Solutions, Basic or Pro, which translates your data into trends and provide pro-active warnings if abnormal deviations occur or other parameters are detected.

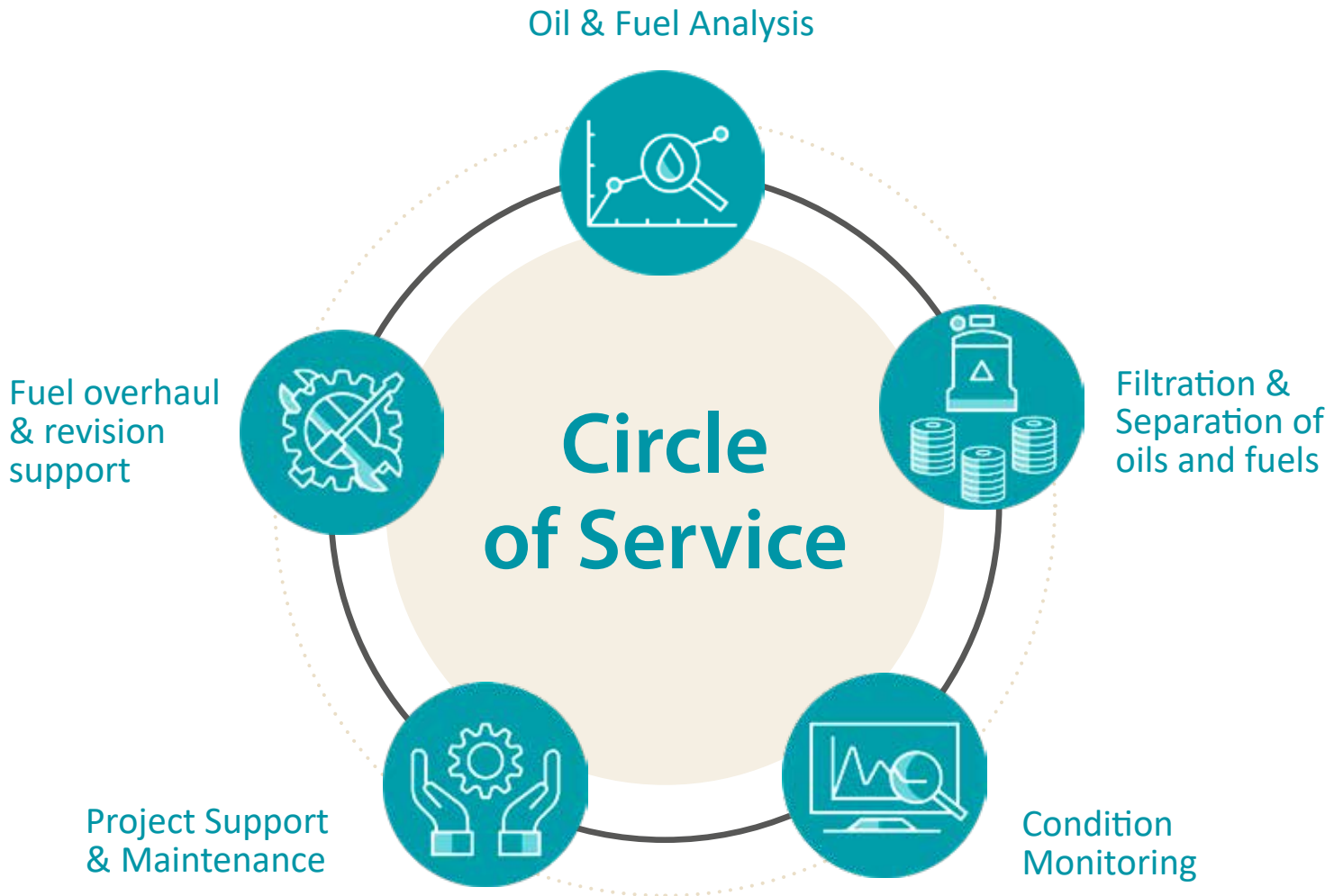
At the end of the rental period, an oil condition report will be provided, documenting the results you've achieved by installing a CJC® Oil Filter.



Online Monitoring Platform CJC® T²Render Tool

About our Service

We believe in flexible solutions that suit your equipment demands, because your time and your system health is important to us



Circle of Service

Our service is not just one unit. It is a philosophy and a responsible attitude.

Plug 'n' play treatment

Our units are transportable and easy to connect. We facilitate complete oil and fuel projects, covering removal of particles, water and oil degradation products.

Our units have various capacities and appropriate hydraulic components to meet your system demands, e.g. hoses, couplings and flanges.

WorldWide service support:

Support from international CCJ Service Technician Teams.



What can you expect from our “Circle of Service”?

Oil and Fuel Analysis	<ul style="list-style-type: none"> • Oil analyses <i>(sampling, analysis, reporting and review of the results)</i>
Filtration & Separation of oils and fuels	<ul style="list-style-type: none"> • Removal of particles, water and oil degradation products • Inhouse testing or testing at customer location of CJC® equipment • Oil & Fuel recovery at customer location or at C.C.JENSEN premises • Bag filtration of oil and fuel <i>(high flow filtration)</i>
Condition Monitoring	<ul style="list-style-type: none"> • Oil condition monitoring <i>(particle counting, moisture and oxidation measurement)</i>
Project Support & Maintenance	<ul style="list-style-type: none"> • Maintenance and service agreements • CJC® Filter Insert changes • Refurbishment of old CJC® Oil Filtration and Water Separation units • Commissioning of new CJC® Oil Filter Units • Facilitating of complete oil and fuel projects and systems
System overhaul and revision support	<ul style="list-style-type: none"> • Combined oil/fuel technical services during minor/major overhauls • Oil & Fuel storage, IBC and container handling' • Oil & Fuel tank inspection and cleaning support • Oil transfer via high flow pumping • Oil & Fuel system/piping flushing <i>(with or without preheating)</i>

Oil Cleaning or Oil & System Cleaning?

When cleaning the oil with CJC® Oil Filtration units, your oil system is also automatically cleaned

Impact

The CJC® Oil Filters not only remove various types of contamination from the oil. The clean oil will also clean the system acting in a certain way as a cleaning detergent when continuous oil filtration is installed.

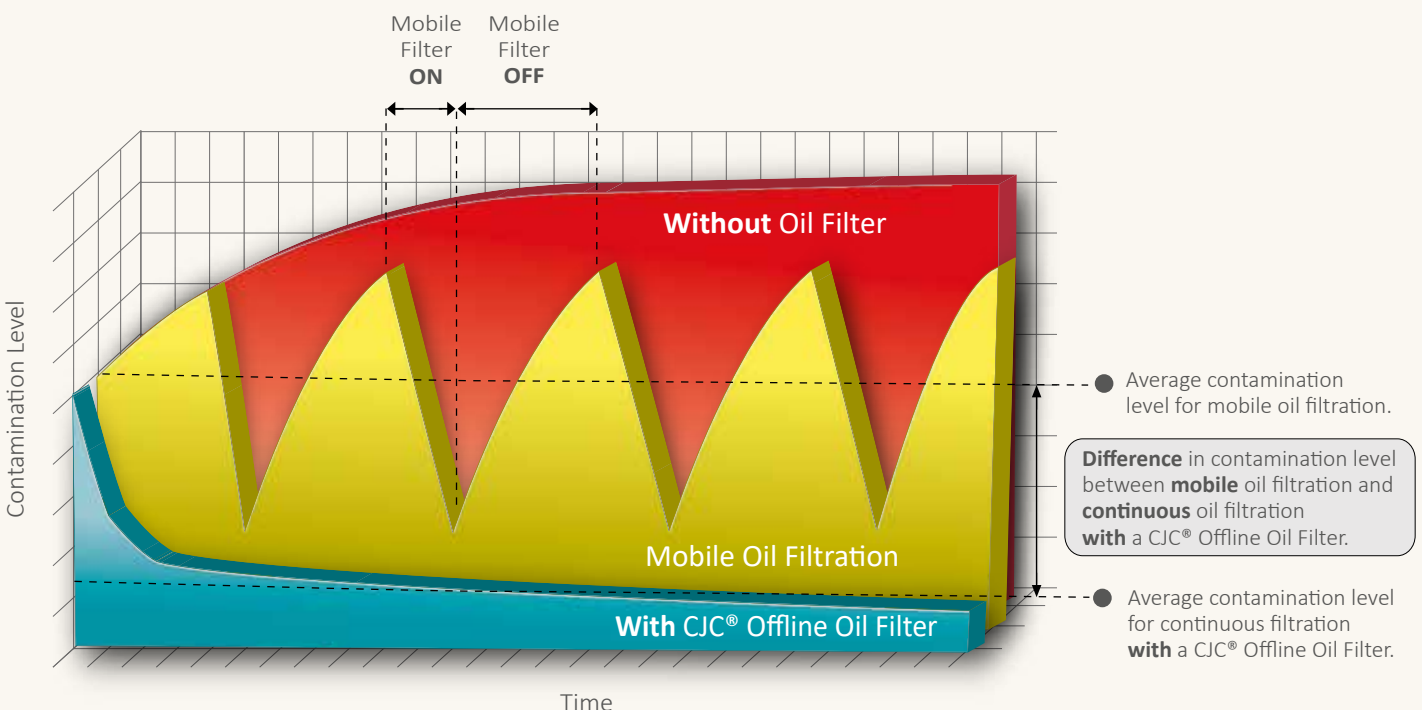
What is the impact of non-continuous oil filtration?

After disconnecting the CJC® Rental Unit from your system, various types of contamination might occur again in your system. In that situation a continuous oil filtration solution is needed.

Our oil analysis service can help to advice you if only a rental solution is recommended or if continuous oil filtration is needed.

Oil maintenance options

Continuous Oil Filtration vs. Mobile Oil Filtration



Outcome

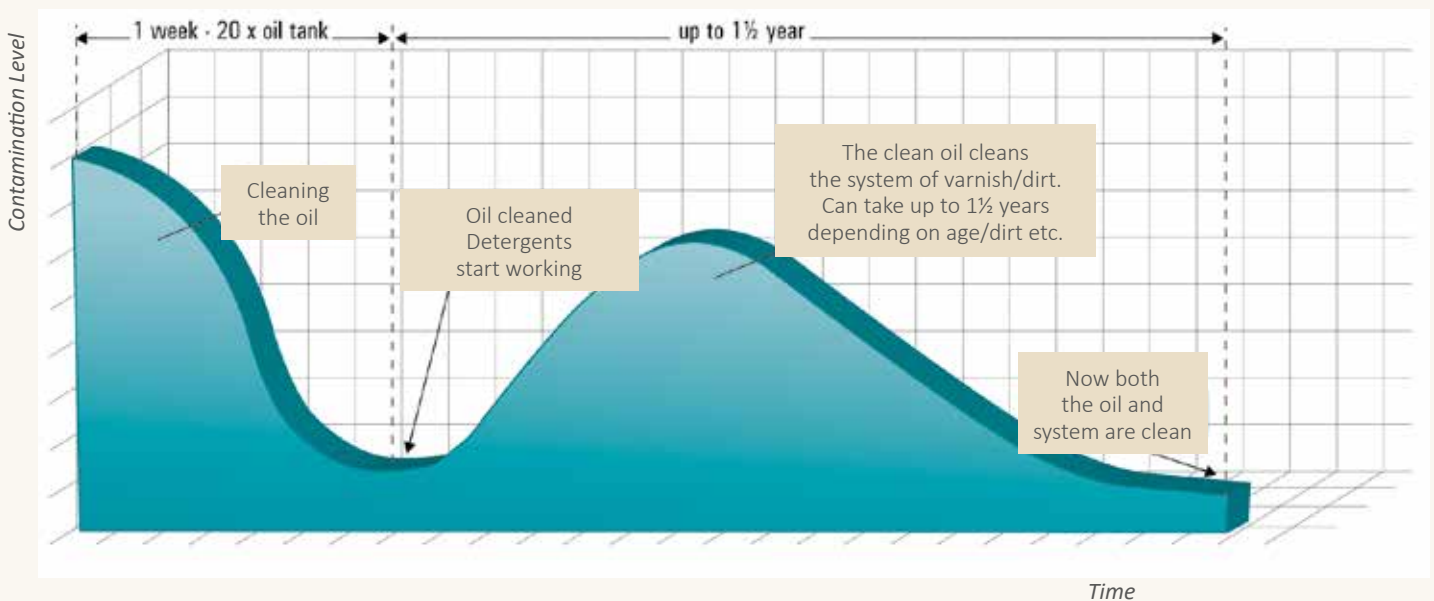
Your longer Return on Investment with CJC®

It's a fact and has been proven that your long term ROI will increase with CJC® Oil and Fuel Filtration. The majority of industrial applications will benefit from lower operational costs once continuous CJC® Oil Filtration is applied.

A CJC® Rental Filter represents a short-term solution to gain experience of our oil filtration performance for your specific applications.



Oil maintenance with continuous offline oil filtration



Contamination Sources & Solutions

One solution for removal of critical contamination sources

Contaminated oil in your oil system?

Contamination sources like particles, water, oxidation and acidity can considerably damage an oil system at different levels. CJC® solutions remove critical contaminants in one and the same process.

CJC® Fine Filters HDU



Particles



Free water



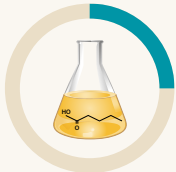
Dissolved water



Insoluble & soluble oxidation



Acidity



CJC® Filter Separators PTU



Free water



Particles



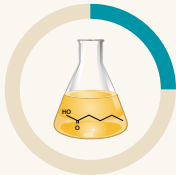
Dissolved water



Insoluble & soluble oxidation



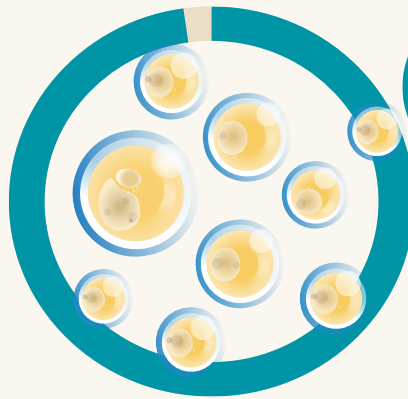
Acidity



Desorbers & Desorber/Filter Combi



Emulsified water



Particles



Free water



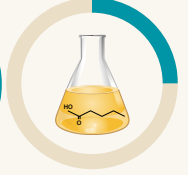
Dissolved water



Insoluble & soluble oxidation



Acidity



CJC® Varnish Removal VRU



Insoluble & soluble oxidation



Particles



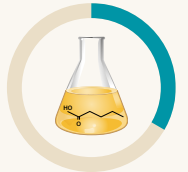
Free water



Dissolved water



Acidity



Flexible Rental Solutions

We have a huge variety of rental equipment to suit your specific needs. You get direct and no-fuss contact with our specialists, offering quick response and fast installation on-site.



In-house stock of Rental Equipment



Oil recovery services



CJC® Filter Insert change services



On-site filtration and storage handling



On-site commissioning



Oil sampling and analysis services

- Commissioned by high skilled C.C.JENSEN technicians
- Crossborder Commitments
- Easy exchange of solutions between our CCJ Service Hubs
- Global CCJ Service Hubs



Filter units including condition monitoring



High flow pump solutions



Flushing services



Oil storage filtration / tank cleaning



Varnish removal solutions




Dewatering solutions (incl. EAL oils)



Rental Units

Below is an overview of the rental CJC® Solutions available to you.


CJC® Fine Filters

CJC® Units	Contamination Sources	System	Applications
<p>CJC® Fine Filter HDU 15/12</p> 	<p>Dirt holding capacity: 0.75 kg</p> <ul style="list-style-type: none"> • Particles, <3 micron absolute • Water • Oxidation by-products • Sludge • Varnish 	<p>System fit: 5 L - 800 L</p> <p>Pump range: 20 L/h - 120 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulics • Gears • Turbines • Compressors • Engines • Diesel fuel
<p>CJC® Fine Filter HDU 15/25</p> 	<p>Dirt holding capacity: 1.5 kg</p> <ul style="list-style-type: none"> • Particles, <3 micron absolute • Water • Oxidation by-products • Sludge • Varnish 	<p>System fit: 5 L - 2,000 L</p> <p>Pump range: 30 L/h - 250 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulics • Gears • Turbines and compressors • Engines • Diesel fuel
<p>CJC® Fine Filter HDU 27/27-54-108</p> 	<p>Dirt holding capacity: Up to 16 kg</p> <ul style="list-style-type: none"> • Particles, <3 micron absolute • Water Oxidation by-products • Sludge • Varnish 	<p>System fit: 20 L - 10,000 L</p> <p>Pump range: 30 L/h - 2,000 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p> <p>Options: With or without Preheaters and Particle Counter</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulics • Gears • Steam and gas turbines and compressors • Engines • Diesel fuel

CJC® Fine Filters

CJC® Units	Contamination Sources	System	Applications
<p>CJC® Fine Filter/ Flushing unit, HDU 427/54-108</p> 	<p>Dirt holding capacity: 32 or 64 kg</p> <ul style="list-style-type: none"> • Particles, <3 micron absolute • Water • Oxidation by-products • Sludge • Varnish 	<p>System fit: Up to 40,000 L</p> <p>Pump range: 660 L/h - 11,500 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p> <p>Options: With or without Particle Counter</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulic • Gears • Steam and gas turbines and compressors • Engines • Diesel fuel • Lubrication systems
<p>CJC® Varnish Removal Unit, VRU 27/108</p> 	<p>Dirt holding capacity: Up to 16 kg</p> <ul style="list-style-type: none"> • Particles, <3 micron absolute • Water • Oxidation by-products both insolubles and solubles 	<p>System fit: 200 - 40,000 L</p> <p>Pump range: 45 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulics • Steam and gas turbines and compressors

CJC® Filter Separators


<p>CJC® Filter Separator PTU 15/12</p> 	<p>Dirt holding capacity: 0.75 kg</p> <ul style="list-style-type: none"> • Particles, < 3 micron absolute • Free water separation • Oxidation by-products 	<p>System fit: 20 L - 800 L</p> <p>Pump range: 20 L/h - 120 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulics • Turbines and compressors • Gears • Diesel fuel
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Rental Units



CJC® Filter Separators

CJC® Units	Contamination Sources	System	Applications
<p>CJC® Filter Separator PTU 15/25</p> 	<p>Dirt holding capacity: 1.5 kg</p> <ul style="list-style-type: none"> • Particles, <3 micron absolute • Free water separation • Oxidation by-products 	<p>System fit: 20 L - 2,000 L</p> <p>Pump range: 45 L/h - 120 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulics • Turbines and compressors • Gears • Diesel fuels
<p>CJC® Filter Separator PTU1 27/54-108</p> 	<p>Dirt holding capacity: 8 kg</p> <ul style="list-style-type: none"> • Particles, <3 micron absolute • Water • Large amounts of free of free water • Oxidation by-products 	<p>System fit: Upon request</p> <p>Pump range: Up to 1,680 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Diesel fuel
<p>CJC® Filter Separator PTU2 27/27</p> 	<p>Dirt holding capacity: 2 kg</p> <ul style="list-style-type: none"> • Particles, <3 micron absolute • Free water separation • Oxidation by-products 	<p>System fit: 200 L - 2,000 L</p> <p>Pump range: 90 L/h – 200 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulics • Turbines and compressors

CJC® Filter Separators


CJC® Units	Contamination Sources	System	Applications
CJC® Filter Separator PTU3 27/- 	Dirt holding capacity: Up to 16 kg <ul style="list-style-type: none"> • Particles, <3 micron absolute • Free water separation • Oxidation by-products 	System fit: 1,000 L - 20,000 L Pump range: 480 L/h - 1,680 L/h Power supply: 3x 400 - 440V 50 - 60 Hz <= ISO VG 220) Options: With or without Preheater and Particle Counter	Applications: <ul style="list-style-type: none"> • Hydraulics • Gears • Steam and gas turbines and compressors • Engines • Diesel fuel

CJC® Desorbers


CJC® Desorber/Filter Combi Unit, D5 	Dirt holding capacity: 1.5 kg Water removal: Nominal up to 1 L p/24 h (**) <ul style="list-style-type: none"> • Particles, <3 micron absolute • Water • Oxidation by-products • Salt 	System fit: <1,200 L (*) Pump range: 30 L/h Power supply: 3x 400 - 440V 50 - 60 Hz Viscosity range: ISO VG46-150	Applications: <ul style="list-style-type: none"> • Hydraulics, lubrication and cooling oils • Stern tubes • CPPs • Thrusters <p>Applications where (salt) water ingress is (dis-)continuous standard and biodegradable fluids</p>
CJC® Desorber D10 	Dirt holding capacity: 4 kg Water removal: Nominal up to 0.75 L p/h (**) <ul style="list-style-type: none"> • Water • Salt 	System fit: <= 2,000 L (*) Pump range: 45 L/h Power supply: 3x 400 - 440V 50 - 60 Hz 1x 230V 50 - 60 Hz Viscosity range: ISO VG32-150	Applications: <ul style="list-style-type: none"> • Hydraulics, lubrication and cooling oils • Steam and gas turbines • Gears • Stern turbines • CPPs • Thrusters <p>Applications where (salt) water ingress is (dis-)continuous standard and biodegradable fluids</p>

Rental Units


CJC® Desorbers

CJC® Units	Contamination Sources	System	Applications
CJC® Desorber D30 	Water removal rate: Nominal up to 2 L p/h (**) <ul style="list-style-type: none"> • Water 	System fit: < 5,000 L Pump range: 150 L/h Power supply: 3x 400 - 440V 50 - 60 Hz Viscosity range: ISO VG32-320	Applications: <ul style="list-style-type: none"> • Hydraulics, lubrication and cooling oils • Steam and gas turbines • Gears • CPPs • Thrusters


CJC® Key Filter

CJC® Key Filter 	Dirt holding capacity: 2 kg <ul style="list-style-type: none"> • Particles, <3 micron absolute • Water • Oxidation by-products 	System fit: Upon request Pump range: 45 L/h - 120 L/h Power supply: 3x 400 - 440V 50 - 60 Hz	Applications: <ul style="list-style-type: none"> • Hydraulics • Lubrication • Gears
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CJC® Heat Transfer Oil Filter

CJC® Heat Transfer Oil Filter, HTO HP 	Dirt holding capacity: 32 kg <ul style="list-style-type: none"> • Particles, <3 micron absolute • Water • Oxidation by-products 	System fit: 200 L up to 20,000 L Pump range: 1400 L/h Power supply: 3x 400 - 440V 50 - 60 Hz	Applications: <ul style="list-style-type: none"> • Heat transfer oil systems • Lubrication systems
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CJC® Pump Unit



CJC® Units	Contamination Sources	System	Applications
<p>CJC® High Flow Pump Unit / Flushing unit</p> 	<p>Dirt holding capacity: Upon request</p> <ul style="list-style-type: none"> As from 2 micron nominal 	<p>System fit: Upon request</p> <p>Pump range: 60 L/h - 600 L/min.</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> Hydraulics Gears Steam and gas turbines and compressors Diesel fuel Lubrication oil Base oil

Particle removal with CJC® Bag-Filtration

<p>CJC® Bag-Filtration</p> 	<p>Dirt holding capacity: Upon request</p> <p>Particles and sludge:</p> <ul style="list-style-type: none"> 2 micron nominal 5 micron nominal 50 -100 -200 micron nominal 	<p>System fit: 5 L - 2,000 L</p> <p>Pump range: 1900 L/h - 6,300 L/h</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> Hydraulics Gears Steam and gas turbines and compressors Engines Diesel fuel Lubrication oil Base oil
<p>CJC® Bag-Pre-Conditioner Filter</p> 	<p>Dirt holding capacity: Upon request</p> <p>Particles and sludge:</p> <ul style="list-style-type: none"> 2 micron nominal 5 micron nominal 50 -100 -200 micron nominal 	<p>System fit: Upon request</p> <p>Pump range: Upon request</p> <p>Power supply: 3x 400 - 440V 50 - 60 Hz</p>	<p>Applications:</p> <ul style="list-style-type: none"> Hydraulics Gears Steam and gas turbines and compressors Engines Diesel fuel Lubrication oil Base oil

Rental Units

CJC® Misc. Solution

CJC® Units	Contamination Sources	System	Applications
<p>IBC</p> 	-	Storage facilities with filtration handling	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulics, lubrication and cooling oils • Steam and gas turbines • Gears • CPPs • Thrusters
<p>Pump bracket</p> 	-	Pumping/transfer of oil and fuel	<p>Applications:</p> <ul style="list-style-type: none"> • Hydraulics, lubrication and cooling oils • Steam and gas turbines • Gears • CPPs • Thrusters

Note (*) Larger oil volumes can be managed by the Desorber depending on hydraulic system layout and available connections for extracting contaminated oil.

Note (**) The water discharge performance depends on the water contamination level, oil type, ambient temperature and air humidity.

At high water levels (above the oil saturation level) the amount of discharge water can exceed the given nominal values.

In case of questions on the demulsibility of the oil or oil condition, please consult C.C.JENSEN in advance.

Inspiration

We care for you

A story from one of our CCJ Service Technicians:

A shipowner had a whole host of issues with their thrusters and upon examining the heavily contaminated oil samples, which also contained a large amount of free water, they turned to C.C.JENSEN for a solution. According to Service Agreements we have with this customer, CCJ Service Technicians quickly installed a CJC® Thruster Unit on-site.

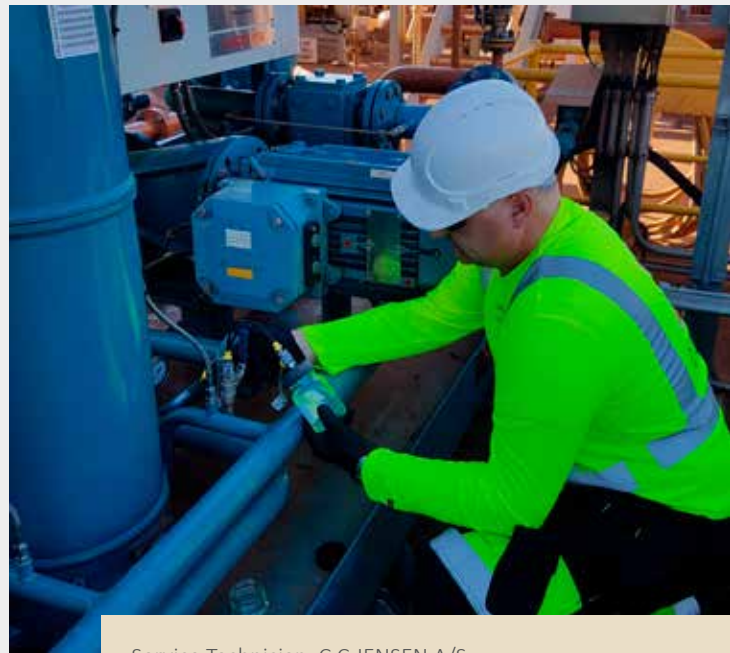
After a very short time in operation, the oil was cleaned to an acceptable level. Their thrusters now operate without any issues, and it also resulted in a long-term agreement.



We support you in becoming more Green

For many years, C.C.JENSEN has focused on sustainability not only in terms of our CJC® Oil Filters, but also specially from a company perspective. As a result, we have reduced our CO₂ by 80% from 2008 and until now. Our sources include our own wind turbines, solar cells, heat pumps, optimisation of drying ovens, LED lighting, electric vehicles, etc.

Also our customers benefit from having clean oil, as the oil is cleaned and recycled, contributing positively to the customers' CO₂ account and saving the environment many litres of waste oil. Recent initiatives are the installation of new IE3 motors in our oil filter solutions as well as our "Flow Drive", a frequency converter that contributes to energy savings.



Service Technician, C.C.JENSEN A/S

The technology behind our CJC® Filter Inserts makes it possible to achieve oil filtration rates as low as <math><3 \mu\text{m}</math>, which includes removal of even the smallest and very harmful particles - the life of the oil is extended and the environment is protected. Our CJC® Filter Inserts, which absorb the contamination sources, are produced from 100 percent natural cellulose fibres exclusively from sustainable raw materials. In other words, we don't use metal, plastic or chemicals.

C.C.JENSEN A/S is a family-owned company that was founded in 1953. Today, the company has about 300 employees, with 200 at our head office and production in Svendborg and about 100 in our 14 subsidiaries worldwide. In addition, our CJC® Oil Filters are traded through more than 40 distributors globally.



C.C.JENSEN

Contact us today



Manufacturing & headquarters

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