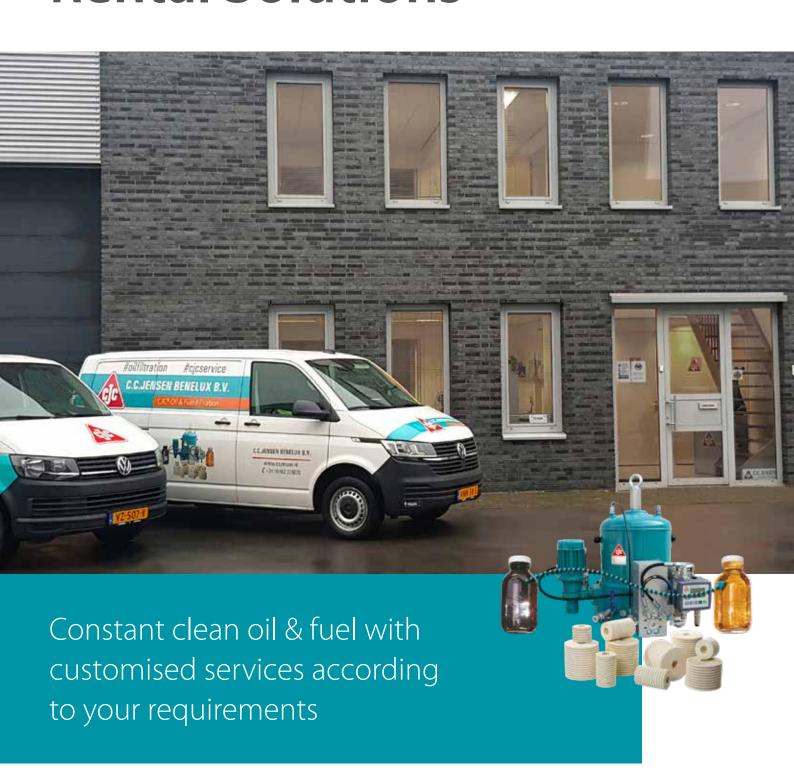


CJC® Oil and Fuel Filtration

Global Services & Rental 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 μ 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

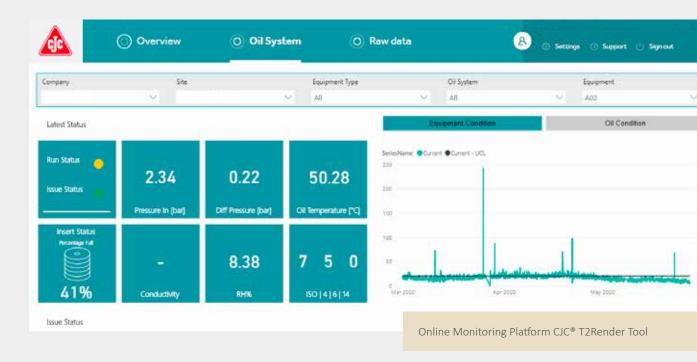
On request, our units include an optional CJC® Oil Contamination Monitor, type OCM15, offering continuous online oil condition monitoring of particles, humidity and temperature in the oil.

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

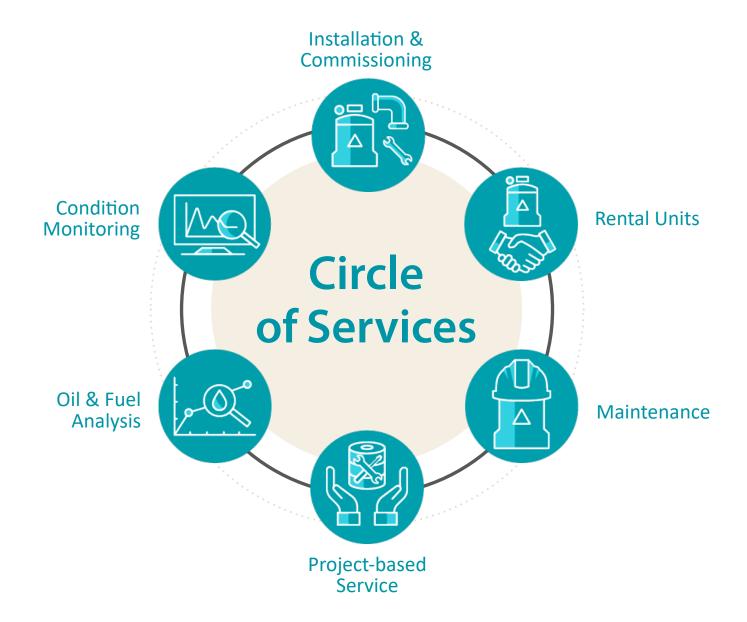
As an option is our surveillance software CJC® T²render Solutions, Basic or Pro, which translates your data into trends and provide pro-active warnings if abnormal deviations occur or other parameters are detected.

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.



About our Services

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



Circle of Services

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 Services"?

Installation & Commissioning	 A systematic and documented intervention at your location to ensure that new, renting or retrofitted CJC® Equipment complies with the your require ments and regulations. 		
Rental Units	 All kinds of CJC® Filter Units that can be made quickly available as emergency solution for oil & fuel calamities, piping and machinery flushing actions, oil recovery facilities, oil & fuel storage and pumping activities or as a test set-up. 		
Maintenance	 All kind of working activities such as repair, replacement works, upgrades, appropriate adjustments and measurements to keep CJC® Equipment in good condition. 		
Project-based Services	 A set of services related to installation, handling, commissioning and decommissioning of CJC® Equipment that in most cases utilize hands-on labour, involvement of sub-contractors under CJC® Supervision and requires extra materials. Project services are typically related to machinery major overhauls, oil and fuel change preparation processes, oil & fuel pumping and storage facilities, oil flushing activities, complete installation packages and oil & fuel recovery treatments. 		
Oil & Fuel Analysis	 A centralized oil and fuel analysis program that helps the customer together with C.C.JENSEN to verify that lubricated machinery is operating according to the expectations. Identification and visualisation of the oil & fuel trend via the lube-trend online platform will result in accurate actions to correct the root cause and to assist on immediate oil & fuel treatment. 		
Conditioning Monitoring	 Installation and commissioning of CJC® Equipment with conditioning monitoring features and software (CMU) contributes to a maintenance approach that predicts lubricated machine health and safety through the collection of sensor data. It will identify changes that could indicate a developing fault, wear mechanism or calamity in lubricated machinery. 		

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.

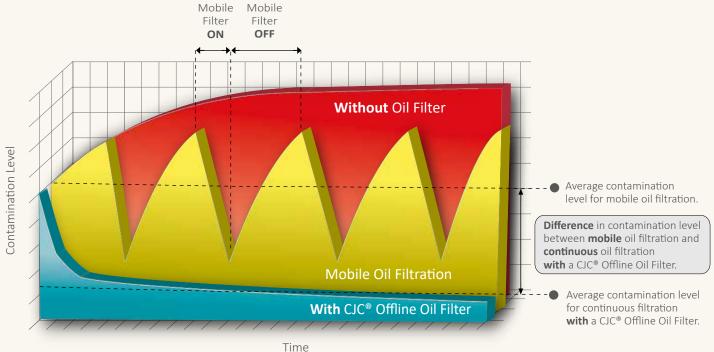
What is the impact of non-continuous oil filtration?

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

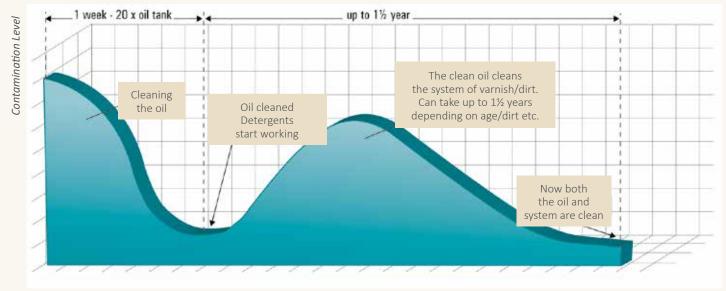
Your longer Return on Investment with CJC®

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



Time

Contamination Sources & Solutions

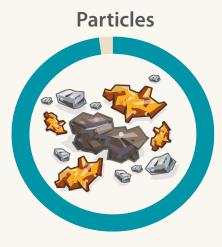
One solution for removal of critical contamination sources

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**







CJC® Filter Separators PTU









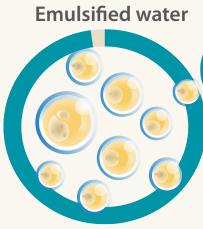




Desorbers & Desorber/Filter Combi

















CJC® Varnish Removal VRU











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.





Oil recovery services









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



Filter units including condition monitoring



High flow pump solutions









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

CJC® Fine Filters

CJC [®] Units	Contamination Sources	System	Applications
CJC® Fine Filter HDU 15/12	Dirt holding capacity: 0.75 kg	System fit: 5 - 800 L	Applications:HydraulicsGears
	Particles,<3 micron absoluteWater	Pump range: 20 L/h - 120 L/h	TurbinesCompressorsEngines
	Oxidation by-productsSludge	Power supply: 3x 400 - 440V	 Diesel fuel
	• Varnish	50 - 60 Hz	
CJC® Fine Filter	Dirt holding capacity:	System fit:	Applications:
HDU 15/25	1.5 kg	5 - 2,000 L	Hydraulics Gars



- Particles,<3 micron absolute
- Water
- Oxidation by-products
- Sludge
- Varnish

Pump range:

30 L/h - 250 L/h

Power supply:

3x 400 - 440V 50 - 60 Hz

- Gears
- Turbines
- Compressors
- Engines
- Diesel fuel

CJC® Fine Filter HDU 27/27-54-108



Dirt holding capacity:

Up to 16 kg

- Particles,
 - <3 micron absolute
- Water Oxidation by-products
- Sludge
- Varnish

System fit:

20 - 10,000 L

Pump range:

30 L/h - 2,000 L/h

Power supply:

3x 400 - 440V 50 - 60 Hz

Options:

With or without Preheaters and Particle Counter

- Hydraulics
- Gears
- Steam and gas turbines
- Compressors
- Engines
- Diesel fuel

CJC® Fine Filters

Contamination **CJC® Units** System **Applications** Sources CJC® Fine Filter/ Dirt holding capacity: System fit: **Applications:** Hydraulic 32 or 64 kg Up to 40,000 L Flushing unit, Gears HDU 427/54-108 Particles, Steam and gas turbines Pump range: <3 micron absolute 660 L/h - 11,500 L/h Compressors Engines Water Oxidation by-products Power supply: Diesel fuel Sludge 3x 400 - 440V • Lubrication systems Varnish 50 - 60 Hz **Options:** With or without Particle Counter CJC® Varnish Dirt holding capacity: System fit: **Applications:** Hydraulics Up to 16 kg 200 - 40,000 L Removal Unit,

CJC® Filter Separators

CJC® Filter Separator PTU 15/12

VRU 27/108



Dirt holding capacity: 0.75 kg

Particles.

Water

solubles

<3 micron absolute

Oxidation by-products

both insolubles and

 Particles, < 3 micron absolute

- Free water separation
- Oxidation by-products

System fit:

Pump range:

Power supply:

3x 400 - 440V

50 - 60 Hz

45 L/h

20 - 800 L

Pump range:

20 L/h - 120 L/h

Power supply:

50 - 60 Hz

Applications:

Hydraulics

• Steam and gas turbines

Compressors

- Turbines
- Compressors
- Gears
- Diesel fuel

3x 400 - 440V

CJC® Filter Separators

CJC® Units	Contamination Sources	System	Applications
CJC® Filter Separator PTU 15/25	Dirt holding capacity: 1.5 kg	System fit: 20 - 2,000 L	Applications:HydraulicsTurbines
	Particles,<3 micron absoluteFree water separation	Pump range: 45 L/h - 120 L/h	CompressorsGearsDiesel fuels
	Oxidation by-products	Power supply: 3x 400 - 440V 50 - 60 Hz	
CJC® Filter Separator PTU1 27/54-108	Dirt holding capacity: 8 kg	System fit: Upon request	Applications: • Diesel fuel



- Particles,<3 micron absolute
- Large amounts of free of free water
- Oxidation by-products

Pump range:

Up to 1,680 L/h

Power supply:

3x 400 - 440V 50 - 60 Hz

CJC® Filter Separator PTU2 27/27



Dirt holding capacity:

2 kg

- Particles,
 <3 micron absolute
- Free water separation
- Oxidation by-products

System fit:

200 - 2,000 L

Pump range:

90 L/h - 200 L/h

Power supply:

3x 400 - 440V 50 - 60 Hz

- Hydraulics
- Turbines
- Compressors

CJC® Filter Separators

Contamination **CJC® Units System Applications** Sources **CJC® Filter Separator** Dirt holding capacity: System fit: **Applications:** Up to 16 kg 1,000 - 20,000 L Hydraulics PTU3 27/-Gears Steam and gas turbines Particles, Pump range: <3 micron absolute 480 L/h - 1,680 L/h Compressors Diesel fuel Free water separation Oxidation by-products **Power supply:** 3x 400 - 440V 50 - 60 Hz <= ISO VG 220) **Options:** With or without Preheater and Particle Counter

CJC® Desorbers

CJC® Desorber/Filter Combi Unit, D5



Dirt holding capacity:

1.5 kg

Water removal:

Nominal up to 1 L p/24 h (**)

- 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:

- Hydraulics, lubrication and cooling oils
- Stern tubes
- CPPs
- Thrusters

Applications where (salt) water ingress is discontinuous. Standard and biodegradable fluids.

CJC® Desorber D10



Dirt holding capacity:

4 kg

Water removal:

Nominal up to 0.75 L p/h (**)

- 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:

- Hydraulics, lubrication and cooling oils
- Steam and gas turbines
- Gears
- Stern tubes
- CPPs
- Thrusters

Applications where (salt) water ingress is continuous. Standard and biodegradable fluids.

CJC® Desorbers

CJC [®] Units	Contamination Sources	System	Applications
CJC® Desorber D30	Water removal rate:	System fit:	Applications:
	Nominal up to 2 L p/h (**)	< 5,000 L	 Hydraulics, morgoils, lubrication and cooling oils
Mary Mary	 Water 	Pump range:	 Steam and gas turbines
		150 L/h	• Gears
		Power supply:	
		3x 400 - 440V	
		50 - 60 Hz	
a de		Viscosity range:	
		ISO VG32-320	
CJC® Desorber D40	Water removal rate:	System fit:	Applications:
	Nominal up to 8 L p/h (**)	< 25,000 L	 Hydraulics, morgoils, lubrication and cooling oils
	• Water	Pump range:	Steam turbines

CJC® Key Filter

CJC® Key Filter



Dirt holding capacity:

2 kg

- Particles, <3 micron absolute
- Water
- Oxidation by-products

System fit:

1,400 L/h

Power supply: 3x 400 - 440V 50 - 60 Hz

Viscosity range: ISO VG32-1000

Upon request

Pump range:

45 L/h - 120 L/h

Power supply:

3x 400 - 440V 50 - 60 Hz

- Gears

- Hydraulics
- Gears

CJC® Heat Transfer Oil Filter

Contamination **CJC® Units** System **Applications** Sources **CJC® Heat Transfer** Dirt holding capacity: System fit: **Applications:** • Heat transfer oil systems 200 L up to 20,000 L Oil Filter, HTO HP 32 kg · Lube oil systems • Particles, <3 micron Pump range: absolute 1400 L/h Water Oxidation by-products **Power supply:** 3x 400 - 440V 50 - 60 Hz

CJC® Pump Unit

CJC® High Flow Pump Unit / Flushing unit



Dirt holding capacity:

Upon request

• As from 2 micron nominal

System fit:

Upon request

Pump range:

60 L/h - 600 L/min.

Power supply:

3x 400 - 440V 50 - 60 Hz

Applications:

- Hydraulics
- Gears
- · Steam and gas turbines
- Compressors
- Diesel fuel
- Lubrication oil
- Base oil

Particle removal with CJC® Bag-Filtration

CJC® Bag-Filtration



Dirt holding capacity:

Upon request

Particles and sludge:

- 2 micron nominal
- 5 micron nominal
- 50 -100 -200 micron nominal

System fit:

5 L - 2,000 L

Pump range:

1900 L/h - 6,300 L/h

Power supply:

3x 400 - 440V 50 - 60 Hz

- Hydraulics
- Gears
- Steam and gas turbines
- Compressors
- Engines
- Diesel fuel
- Lubrication oil
- Base oil

Particle removal with CJC® Bag-Filtration

CJC® Units	Contamination Sources	System	Applications
CJC® Bag-Pre-	Dirt holding capacity:	System fit:	Applications:
Conditioner Filter	Upon request	Upon request	 Hydraulics
. o Se M			 Gears
100	Particles and sludge:	Pump range:	 Steam and gas turbines
	 2 micron nominal 	Upon request	 Compressors
M M	 5 micron nominal 		 Engines
	 50 -100 -200 micron 	Power supply:	 Diesel fuel
	nominal	3x 400 - 440V	 Lubrication oil
		50 - 60 Hz	Base oil

CJC® Misc. Solution





Storage facilities with filtration handling

Applications:

- Hydraulics, lubrication
- · and cooling oils
- Steam and gas turbines
- Gears
- CPPs
- Thrusters

Pump bracket



Pumping/transfer of oil and fuel

Applications:

- 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.

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, our 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.



Service Technician, C.C.JENSEN A/S

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. Recent initiatives are installation of new IE3 motors in our oil filter solutions as well as our "Flow Drive", a frequency converter that contributes to energy savings.

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.

The technology behind our CJC® Filter Inserts makes it possible to achieve oil filtration rates as low as <3 μm, 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 more than 400 employees, with 300 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 Global Services & Rental Solutions

Contact us today!



Manufacturing & headquarters

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Scan the QR code and find your nearest distributors at www.cjc.dk/contact

- or give us a call!

Your local C.C.JENSEN Distributor:

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