FAQ

CJC® offline filtration system FAQ

As part of our Omnicare service, Everllence PrimeServ provides parts and service for C.C.JENSEN oil filtration systems. This document gives valuable information regarding classification, documentation, inspection of components, maintenance intervals, operating conditions, and replacement of components.

What is an offline filtration system from C.C.JENSEN?

Offline oil filtration, or kidney loop filtration, delivers similar or better quality oil compared to a traditional centrifugal separator. C.C.JENSEN offers innovative and well-proven filtration system technology that revolutionizes the way lube oil is maintained on 2- and 4-stroke engines across all fuel types. This helps to prolong the service life of your engine, reduce maintenance costs, and improve environmental performance.

Everllence

Our services include

- Retrofit installations, new installations, spare parts, and replacement filter insertions with short delivery times
- Advice on integration with your existing lube oil cleaning system
- Return on investment calculations to help evaluate your savings

Benefits of installing a C.C.JENSEN lube oil filter

Main benefits

- 97% energy (fuel) savings compared with a centrifugal separator
- 40-60% saving in lube oil consumption on 4-stroke (10-20% for 2-stroke)
- 99% lube oil sludge reduction
- ROI in less than 18 months
- Low CAPEX and OPEX
- Extend engine component life up to 10x
- Very simple maintenance
- Same or better quality oil
- Filtration availability >98% even in port stay
- Improved CII* rating
- Only 3% of fuel compared with traditional systems
- Almost no sludge
- Reduced oil consumption

Additional benefits

- Reduction in CO_2 footprint
- Offline system does not require the main system to shut down for maintenance or filter changes
- Continuous cleaning 24/7/365
- Controlled oil replacement on schedule

*Carbon Intensity Indicator

Why should I install filtration units from C.C.JENSEN when I already have a centrifugal separator?
Offline oil filtration makes sound financial sense, delivering fast ROI through significant fuel savings, lower oil consumption, and low sludge production.

Simple installation and low maintenance help to minimize running costs, while the solution's low energy consumption makes it possible to run the cleaning cycle almost 24/7/365 with 98% uptime.

Marine vessels generally have a high environmental footprint and there is growing pressure to reduce this. CJC® filtration units typically require only 3% of the fuel required by a separator, which translates into a substantial reduction in CO_2 emissions.

What can I save with my current vessels?
Please complete the ROI calculation form found on our landing page and we will gladly reply with a complete business case and ROI. Please contact your local MAN support team for any assistance.

How does the cost of ownership compare with centrifugal separators?
Generally speaking, CAPEX is much lower with a C.C.JENSEN filter set. The largest savings however is in OPEX; filters from C.C.JENSEN deliver large fuel savings, low oil consumption, and low sludge production. This often leads to a very good return on investment.

Will the filtration unit remove adequate water from the oil?
Yes, each of the elements in the system can hold two litres of water and 4kg of particles, which is more than adequate for normal operation.

Very often the source of the water is the purifier. The filtration units from C.C.JENSEN do not use any water or air in its operation. In abnormal situations with large ingresses of water, it is already common to replace the oil in the engine with a new batch, not to risk engine reliability and continued operation.

The water in the contaminated oil can then be removed using a centrifugal separator or C.C.JENSEN desorber technology in a separate tank and re-used.

How often should I change elements?
Elements should be changed every 6-12 months on 2-stroke engines and every 3-6 months for 4-stroke engines. The cleaning period after first installation might require an additional one or two sets for the first year. A period of one year should never be exceeded between filter changes.

What maintenance is required?
Apart from changing the oil filters there is very little maintenance required. The control panel has a common fault alarm to notify the crew if attention is required. To change the filter elements is also a simple task that requires no special skills.

Does the C.C.JENSEN filter set improve the vessel's CO_2 footprint and reduce emissions?
Yes, often CO_2 savings in the region of 90% is reported. This is mostly due to high fuel savings.

Is class approval required for C.C.JENSEN filters?
Because the lube oil filter systems are utilized in offline setup it is regarded as non-essential equipment. Therefore it has no impact on Class if fitted as an additional unit and centrifuge is kept in place. However, the filtration units have been verified and design approved by all major class societies.

Scan to learn more about the C.C.JENSEN Oil Filtration system:

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