

"Achieve the highest oil filtration
standard and the most attractive
return on your filter investment
with GreenOil"

Off-Line Oil Filtration Solutions



GREENOIL

STANDARD®

UNIQUE COMBINED PARTICLE AND WATER SEPARATION



Clean oil is a necessity. With a GreenOil System downtime and repairs may be reduced and lifetime prolonged by 5-10 times for hydraulic systems and 4-8 times for lube oil systems. Improved filtration is vital to reducing costs, repairs and downtime.

The unique combined GreenOil filter yields a new top class standard for particle filtration.

Effectively removes particles from oil

Oil replacement does not remedy particle contamination fully. Initially residues and silt are present but with an offline filter they are removed over time.

The filtration process in a GreenOil filter does not affect the additives or change the properties of the oil. Removing particles and water improves the quality of the oil.

Removes free, emulsified and bound water

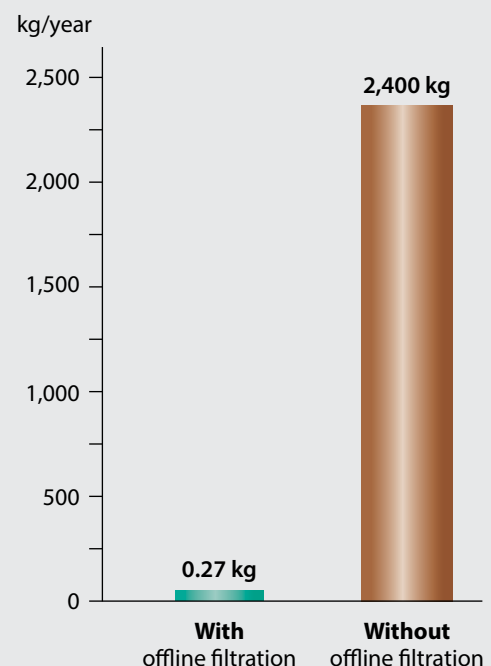
Oil systems require a dry oil for long service life. Condensed water builds up in oil systems that are not constantly operating. Water ingress or contamination is a constant source of unnecessary oil changes, corrosion and break downs.

The patented GreenOil water separator does not use any service parts and the power consumption is extremely low. The oil is not stressed by direct heating and water separation is a continuous process. The system operates with heated air.

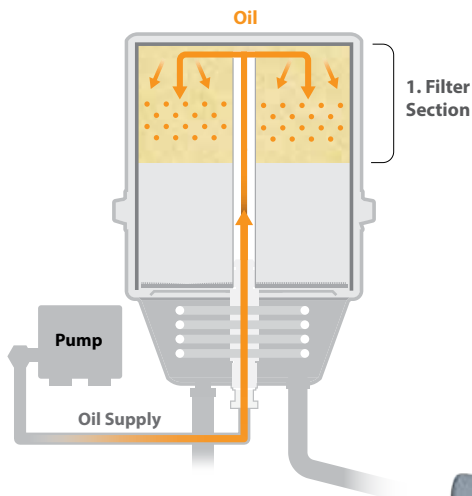


Circulation of particles per year

The hydraulic pump in a small hydraulic power pack circulates on a yearly basis 0.27 kg particles with offline filtration and 2,400 kg particles without offline filtration.

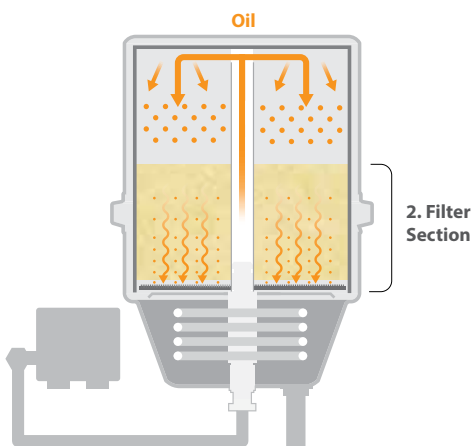


GREENOIL FUNCTIONAL PRINCIPLE



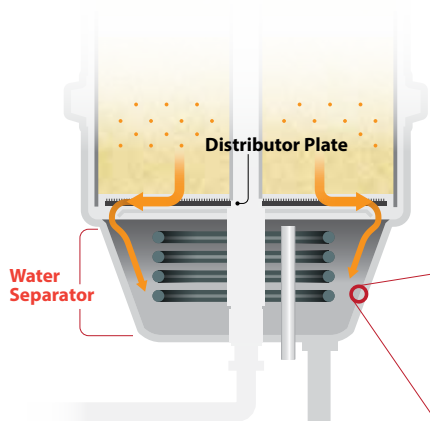
1 First Filter Section

The first part of the filter insert is designed to retain sludge and bigger particles. Purpose is dirt holding capacity, efficiently increasing filter lifetime.



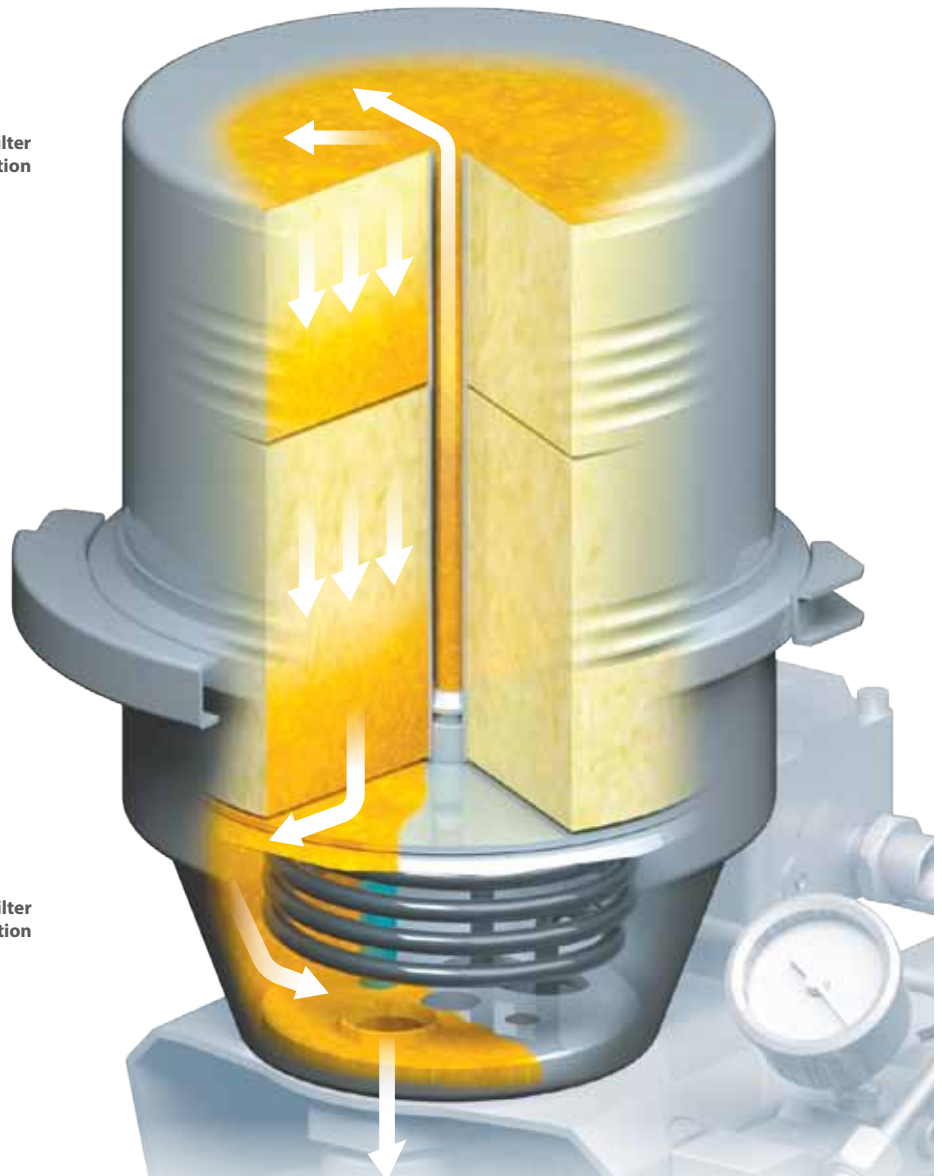
2 Second Filter Section

The second part of the filter insert is designed with a high level of deep filtration. Purpose is to retain fine particles, ensuring best oil quality.



3 Water Separation

The unique patented water separator is designed to remove free, emulsified, and bound water. Purpose is to remove any water contamination.

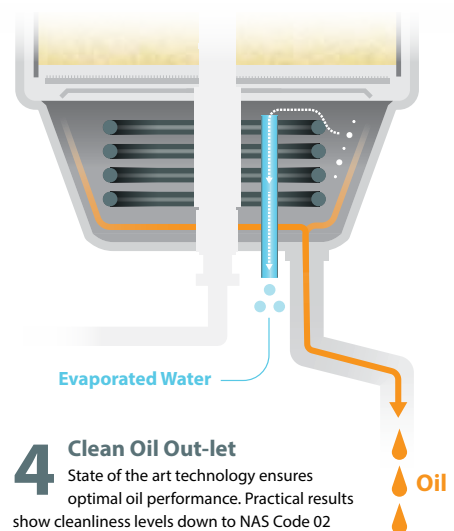
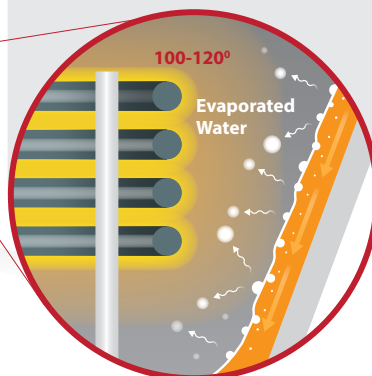


Water Separation Principle

The principle operates **without any direct heating of the oil.**

In the separation chamber the oil flows as a thin oil film down the chamber wall. A heat coil heats the air in the chamber to 100-120° C.

Heated air and radiation evaporates water from the thin oil film. Increased pressure from the evaporated water leaves the chamber through the venting pipe.



4 Clean Oil Out-let

State of the art technology ensures optimal oil performance. Practical results show cleanliness levels down to NAS Code 02 (NAS1638) and water down to 30 ppm.

State of the Art Oil Filtration

GreenOil design, produce and market a unique series of oil offline filters, breaking traditions in which oil cleaning has been performed for decades.

Since 2008 thousands of filter systems have been installed onboard all types of vessels and in industry. Leading ship owners and industrial manufacturers have invested in GreenOil products to improve operational stability and save maintenance costs.

GreenOil Standard ApS – State of the Art Oil Filtration.



GreenOil Standard ApS
Erhvervsparken 10
DK-8400 Ebeltøft
Phone: +45 87 52 00 84
Fax: +45 87 52 00 85
info@greenoil.dk
www.greenoil.dk

Hydro Dynamics Solutions

258 Equity Blvd
Houma, LA 70360

Tom Shrader
713-503-3852
tom.shrader@hdsmarine.com