

FILTRATION OF PROPULSION, HYDRAULICS AND GEAR OIL



GREENOIL
STANDARD®

PERFORMANCE TO RELY ON

Thrusters, gearboxes, stern tubes, hydraulics and other oil systems all require dry oil for long life service. Water ingress or contamination is a constant source of unnecessary oil changes, corrosion, and break downs - quality oil filtration is the key. The GreenOil solution is offered as both a retrofit and a newbuild, ensuring clean and dry oil on any type of vessel, giving you performance to rely on.

Through proper oil maintenance, lower lifecycle costs are achieved through high operational reliability and durability. GreenOil systems keeps your machinery healthy with low investment costs, and is even suitable for EAL (Environmental Acceptable Lubricants) oils. Additionally, the offline oil filtration systems are easy to maintain, freeing up your crew to work elsewhere.



Clean Oil
Ready for Use

OUR FILTERS MAKES THE DIFFERENCE

The secret to quality oil filtration is sheep wool. The natural material is compressed into wheels of wool in different densities, these are then placed into a filter cannister, in which the oil is pressed through, thus filtrating the oil. The combination of wheels of different densities enables us to give you the best filtration for your vessel, so your oil is always clean and dry.

GreenOil filters are made from surplus wool, giving you a more sustainable option in your filtration solutions. Additionally due to the low energy consumption the GreenOil solution remains the most cost effective cleaning solution.

Advantages

- Extended lifetime of the oil
- Components lifetime prolonged by 5-10 times
- Cleanliness down to NAS code 02
- Water cleaned down to 30 ppm
- Improved oil quality



FITTING THE A,B,H-SERIES SYSTEM TO YOUR VESSEL

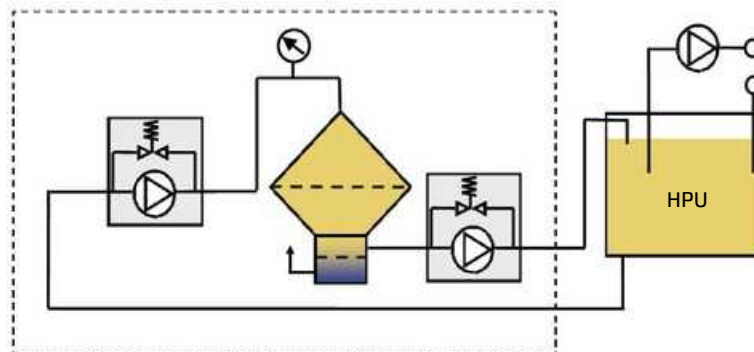


Pictured is the WP2-H4-100 unit

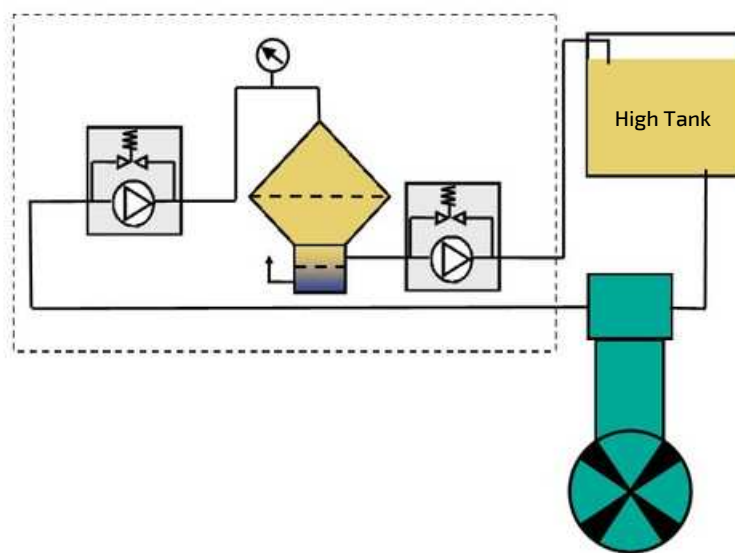


Pictured is the WP2-H3-Mob unit

GreenOil Unit



GreenOil Unit

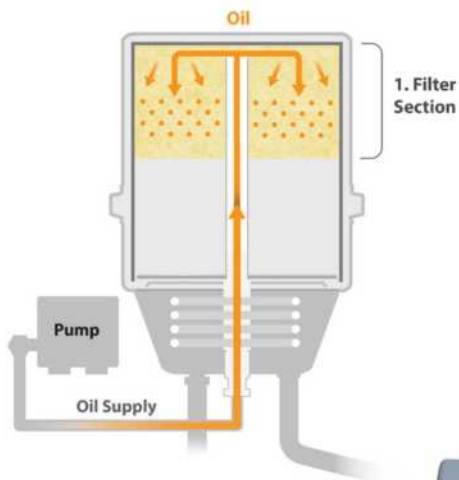


Thruster

TECHNICAL DATA FOR PROPULSION, HYDRAULICS AND GEAR SYSTEMS

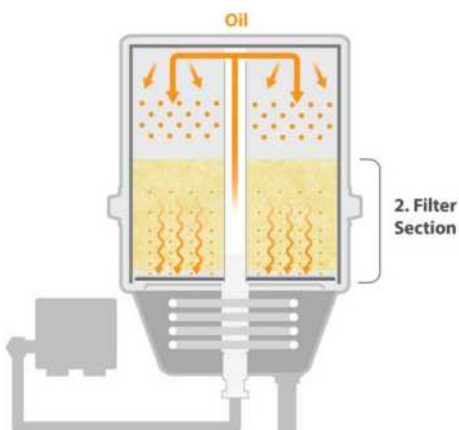
Technical Data	WP2-H4-40	WP2-H4-100	WP2-A4-200	WP2-A4-400
Filtered Oil Flow (l/h)	40-60	100-120	200-240	400-480
Viscosity (cSt)	0-220	0-220	0-220	0-220
Power Supply (VAC-Hz)	1x230, 3x400/440 or 3x690-50/60	1x230, 3x400/440 or 3x690-50/60	3x400/440 or 3x690-50/60	3x400/440 or 3x690-50/60
Max. Power Consumption (W)	340+1600	370+1600	570	1140
Dimensions H x W x D (mm)	775X635X435	775X635X435	775X635X435	775X635X435
Weight (kg)	70	70	71	110
Materials	AISI 304 Stainless	AISI 304 Stainless	AISI 304 Stainless	AISI 304 Stainless
Filter Cannister (liter)	1x8	1x8	1x8	2x8
Preheater	Standard 1600W Mounted on system	Standard 1600W Mounted on system	Option	Option
Alarm	Option	Option	Option	Option

Technical Data Mobile Units	WP2-A3-40	WP2-A3-100	WP2-H3-40	WP2-H3-100
Filtered Oil Flow (l/h)	40-60	100-120	40-60	100-120
Viscosity (cSt)	0-460	0-460	0-460	0-460
Power Supply (VAC-Hz)	1x110 or 1x230-50/60	1x110 or 1x230-50/60	1x230-50/60	1x230-50/60
Max. Power Consumption (W)	340	370	340+1600	370+1600
Dimensions H x W x D (mm)	1100x600x660	1100x600x660	1100x600x660	1100x600x660
Weight (kg)	57	57	63	63
Materials	AISI 304 Stainless	AISI 304 Stainless	AISI 304 Stainless	AISI 304 Stainless
Filter Cannister (liter)	1x8	1x8	1x8	1x8
Preheater	Option	Option	Standard	Standard



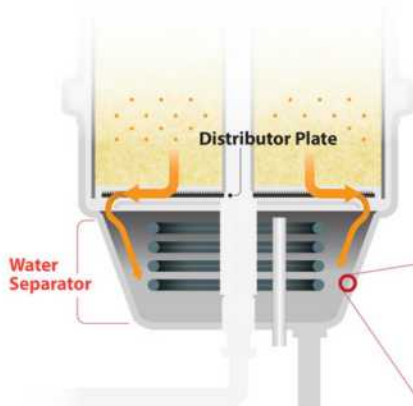
1 First Filter Section

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



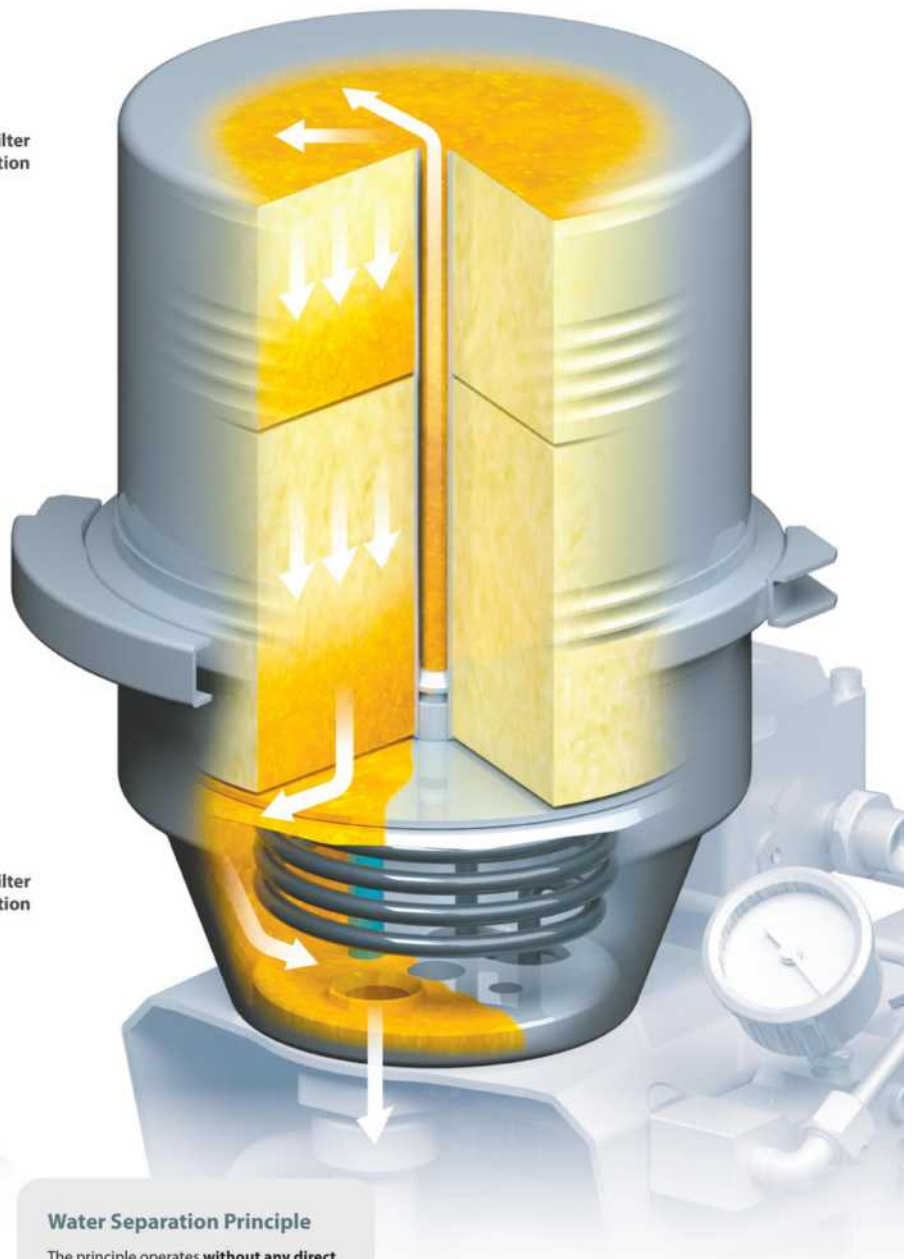
2 Second Filter Section

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.

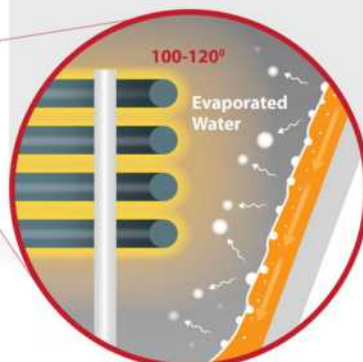


Water Separation Principle

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.

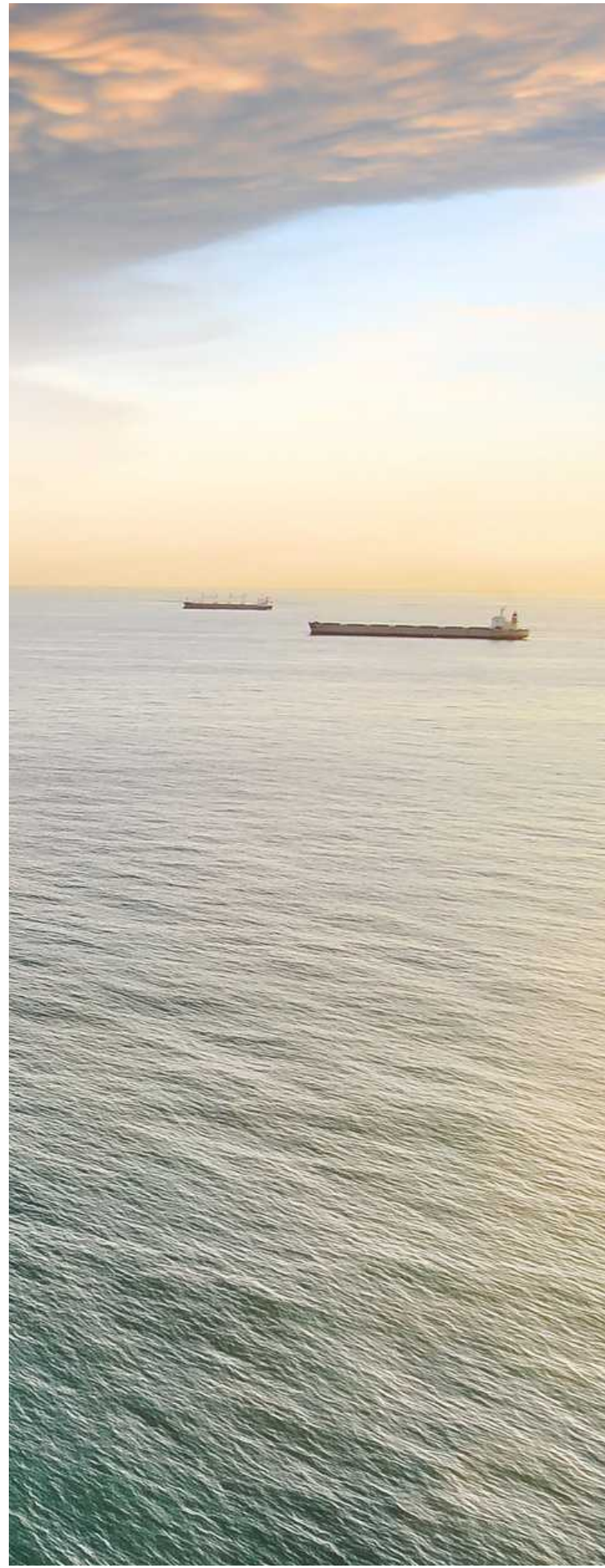
TRIED AND TESTED BY THOSE WHO KNOW

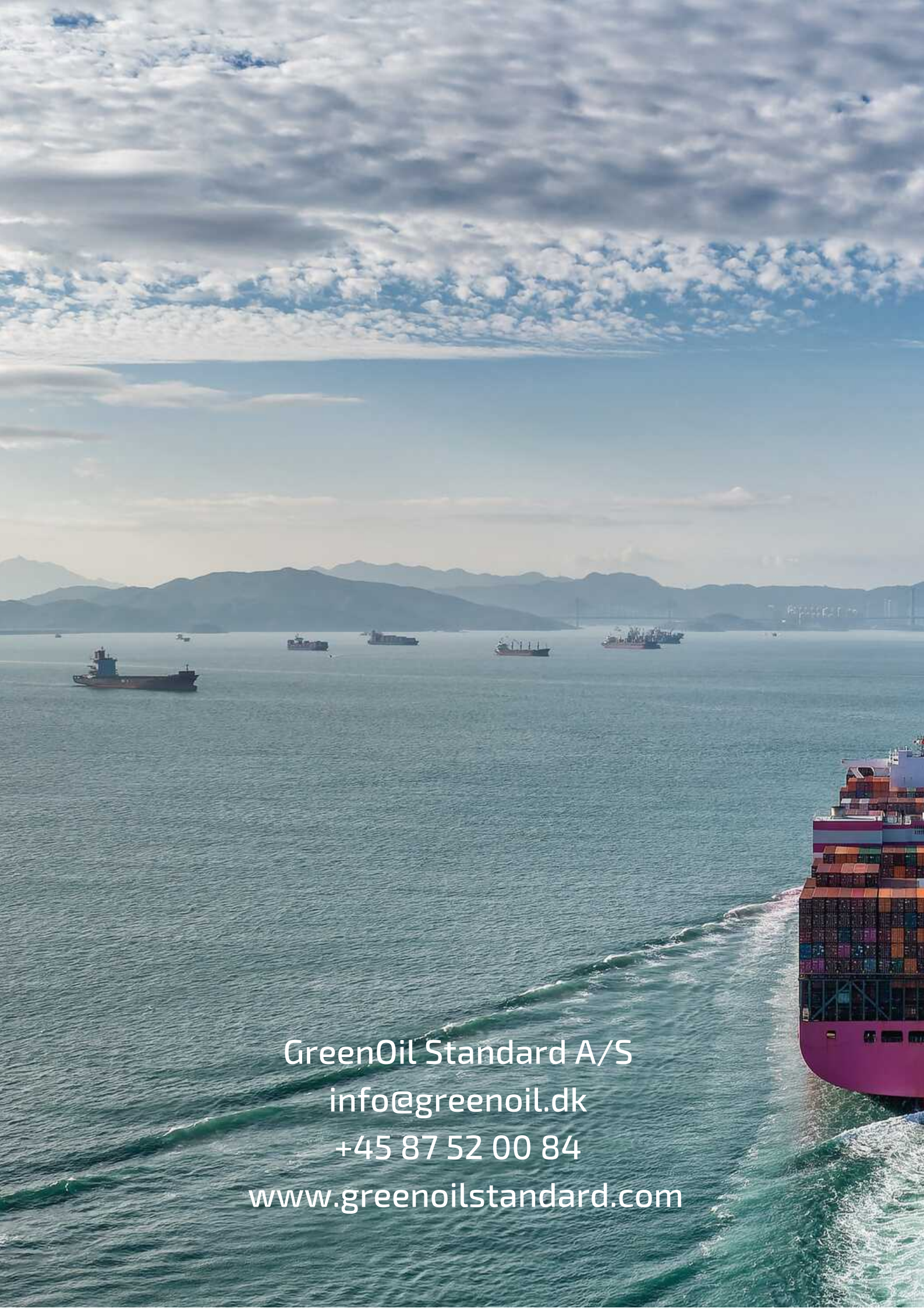
"We have found the GreenOil filters on board Ark Germania very satisfactory, and it corresponds to the experience on board other ships in the DFDS fleet, where they use the GreenOil filters as well."

Chief Engineer, Ark Germania, DFDS

"This GreenOil system is very compact and moveable. Perfect for small compartments. Good efficiency, in just 2-3 days in service, the oil was back in normal condition. The system is very easy to operate, simple to clean and maintain. We are happy about the performance. We would certainly recommend this system!"

Chief Engineer, MS Amara





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