

Filtration Group application example – Marine Industry

Backflushing Filter R5-8 for lubrications of ship diesel engines



Marine Industry

Initial situation

In the winter the Gulf of Finland freezes over. To provide a continuous waterway **icebreakers are in operation** during the winter months. Two ships, the “**SISU**” and the “**URHO**” take care about the area between Helsinki and Tallinn. Each ship has **5 engines with 12.000 hp** each. The reliability of these engines has highest priority.



Solution statement

- Replacement of the whole filter and pump system for fuel and lubrication oil as common solution from Filtration Group and its Premium Partner Rhea MP
- Combination of 5 Filtration Group backflushing Filters R5-8 with pumping systems from Rhea MP
- Complete systems from one single source for highest Filtration Group-Quality
- System delivery from a single source with highest Filtration Group quality



Customer value

- Room saving solution on board
- Costs savings thanks to **reduced maintenance downtimes**
- **Reduced maintenance efforts** and therefore reduced maintenance costs
- **One single contact person** for the end customer for all concerns on both ships
- **Equal systems** on both ships for **equal performance**



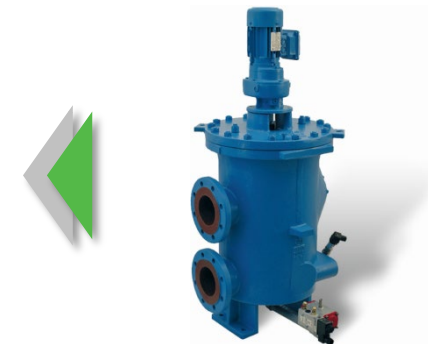
Challenge

In order to guarantee a continuous fairway, the motors of the icebreakers must function without any problems during operation.

- Former filtration system (manufacturer unknown) was not reliable
- A **reliable lubrication oil filtration is required**
- Sister ship (the UHRO) was equipped with a Filtration Group filter system some time ago. **The customer wants to have comparable filter performances** on both ships, so that both ships can do their jobs properly

Technical Data

- Medium: Motor lubrication oil SAE 40
- Filtration rate: 34 µm
- Temperature: 65 – 70°C
- Pump capacity: 1.600 l/min



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