

## EFFICIENT FILTRATION ENSURES FUEL COST SAVINGS

### Reducing waste and saving time

With marine fuel oil prices continuously rising, the need for increased fuel efficiency is more important than ever. This was a well-documented problem on board a major cruise liner, whose fuel oil system had become outdated and so was producing high levels of sludge.

The solution put forward by Bollfilter UK was a main engine fuel oil filtration system upgrade, a proposal was provided for 2 x 6.72.1 DN65 automatic filters @ 34 micron, complete with electric control panels & flanged-on simplex standby units.

Service Manager Michael Chadwick made a pre-install visit to the vessel to ensure the correct plans & preparations were made, he then oversaw the entire refit on board whilst the vessel was cruising around the Caribbean Islands of Barbados, St. Lucia, Grenada, Trinidad & Tobago, St. Vincent, St. Kitts and Antigua.

The 8 days on board allowed him to plan with the First Engineer where best to locate the new port & starboard fuel filters, securely bolt the filters to the floor plates, fit & wire the electric control panels, fit the compressed air line for the backflush mechanism, test the mechanical & electrical functionality of the filters, remove the existing filters, connect the new filters to the modified inlet, outlet & drain pipework and finally test & commission all functions of the complete automatic filter system.

The benefits of the new Bollfilter fully automatic filters type 6.72.1 were instantly realised as the 6.72.1 unit backflushes less frequently due to its improved efficient design. The Chief Engineer was able to calculate that the new system was reducing the amount of sludge produced per day by approximately 60 litres. This equates to a best case estimate of nearly 22,000 litres per year saved in unnecessary sludge.

Staff Chief Engineer, responsible for the vessels operation and maintenance said "The biggest saving for me is the old filters needed cleaning just about every week, using staff time. The new filters have not needed cleaning since installation. They are also producing less sludge due to the reduction in number of backflushes per day".



Ocean Going Cruise Liner



Starboard Bollfilter main engine fuel filter type 6.72.1



Port Bollfilter main engine fuel filter type 6.72.1

**Client** Major Cruise Liner Operator

**Contractor** Bollfilter UK Limited

**System** Main Engine Fuel Oil Filtration: 2 x Bollfilter Type 6.72.1 DN65, Filtration: 34 microns Standby Filtration: 37 microns Complete with type 2200 control panel

**Bollfilter UK Limited**

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**Filtration Solutions for the Marine Sector**