

CASE: 85% SAVINGS CHANGING FROM FIRE FIGHTING TO PRO-ACTIVE MAINTENANCE

-Environmentally friendly solutions in the battle against the clogged black water system.

578 toilets irregularly working with high cost put our customer in an unsustainable position, both financially and branding-wise. The clogged black water system could not be purified, while our client's end-users were on-board, why they applied extra pumps to obtain sufficient vacuum in the toilet system.

Caring for their operation, the customer attempted to clear the system chemically with limited results.

One technician was contracted to keep the system operational at all times, but this was further complicated, as the system is spread over several square meters and over several floors. The traditional method of rinse would risk pipe fracture, as well as major coating pieces detaching and further blocking the piping system.

AN ENVIRONMENTALLY SAFE SOLUTION

Taking the physical circumstances of possible person or equipment injuries in case of a leakage into account, Ocean Team Scandinavia determined to use environmental and harmless chemicals when purifying the system.

MORE THAN 85 % REDUCTION IN MAINTENANCE COSTS

By identifying the root cause of the problems Ocean Team Scandinavia was able to conduct a proactive maintenance approach, generating a great saving for the customer. The nine extra pumps were not needed any longer, reducing the electricity costs. One member of staff were released to prioritize other



▲ *Before: Clogged pipes before environmental friendly actions were taken. The passage was decreasing over time.*

maintenance jobs without interruptions, as he no longer had to handle ad hoc repairs and continuous de-clogging work of the pipe system. Furthermore the customer experienced a saving in the purchasing and changing of valves. A member of the vessel maintenance crew states: "We have almost had no clogs in our vacuum pipes after the acid cleaning. What we have seen during the last month is equal to what we had per day before we docked. Our vacuum pumps only operate ¼ of time they did before. – And then it was a really good team on board from Ocean Team. A real satisfying co-operation both internally and with the vessel crew. Huge praise from us."



Did you know?

- Root cause analysis prevent problems opposed to "putting out fires" at a later stage.
- Our supervisors and specialized technicians are broadly skilled and highly trained, co-operating with in-house expertise in root cause analysis, including chemical cleaning.
- A pro-active maintenance strategy determine root cause failures. Correcting these at early stages saves the company costs and downtime.

THE FUTURE – looking forward

By taking pictures of all ends of the system before and after the purification enabled the customer to document the appraisal of the system. The documents has made it possible for the customer to assess when the system needs purification next time and accordingly applying a proactive maintenance plan.



▲ *After: The pipes after the chemical purification were not only cleaner, but it also created a full extent of the opening.*