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From :	Tom Christiansen	Dept :	Technical
Our Ref.No. :	TCH 98091707	No.of pages	2 (incl. This page)

Dear Sir.

Reference is made to your mail regarding Elysator installations.

We have been using this water treatment system on several of our ships for a long period now.

As a major Norwegian shipowner with a total of 95 wessels we evaluate new installations carefully.

Our experience with Elysator is excellent. We have not a complete overview of total saving yet, but they are estimated to be in the range 4000 to 6000 US\$ a year, depending of shiptype.

Savings were not the main issue when we installed the systems. It all started with a Sulzer RTA system with bacteria's in the cooling water system. After several failed cleaning attempts we installed one Elysator that removed the bacteria's.

Our main reasons for installing Elysator are as follow.

- Improved water treatment in a simple way.
- Reduced stock of chemicals onboard.
- Reduced work for the crew onboard.(water analyses e.g.)
- Reduced risks for accidents with chemicals.
- Reduced pollution to sea (from leaks e.g.)
- Even existing "old pipes "are cleaned.
- To be in "forehand" of future restrictions regarding chemicals.

One warning thou the Elysator cleans "old pipes" and may cause leaks where corrosion before kept the pipes tight

My advice is to install the Elysator several months before docking on wessels older than 10 years and monitor for leaks carefully.

Kind Regards
For Bergesen d.y ASA

Tom Christiansen
Superintendent