

Air pressure cleaning of marine boilers saves energy, time and money Danish company produces a cleaning system which automatically removes deposits from boiler tubes. Clean boilers result in proven higher efficiency and boiler output.

Press release

It is the first time OKR Cleaning participates on the Danish stand at SMM. The company sees it as a unique opportunity to meet actors from the marine industry and to establish contact with important organisations within the field.

At the fair OKR presents an air pressure cleaning system which continuously removes small amounts of deposits during operation avoiding switching of and opening the boiler for manual cleaning. Installations on marine boilers would therefore improve efficiency of the entire system by maintaining optimally heat transfer and increasing the intervals between cleaning considerably. The result is increased economic efficiency.

Tangible effect

In 1992 OKR developed the system, AEROVIT. The patented system can be integrated onto both new and existing boilers, catalyts, heat exchangers and economizers and can in principle be tailored to all operating situations.

The heat exchanger on the autoliner Höegh Trident is an evident proof of AEROVIT's cleaning ability. Director of Wärtsilä Boiler Services Denmark, Michael Søndergaard, says after inspection in Dubai: "The system works impeccably here too. I can almost wear a white shirt inside the economizer". The company bought the system in October 2008. Just four months after installing AEROVIT on the sister vessel Höegh Trooper.

The effect of AEROVIT is thus tangible. The system operates with very powerful blasts of compressed air which "shoots" deposits loose from boiler tubes, reversing chambers and boiler sections. The deposit is collected in filters made for the purpose. The process is fully automatic and results in an 80-100 % reduction in manual boiler cleaning.

More than energy savings

Today two Croatian cargo vessels, two Norwegian autoliners and a Polish ferry are equipped with AEROVIT.

The Croatian shipping company Jadroplov Ltd. bought in 2008 an AEROVIT system for the cargo vessel M.V. Split and the response from the technical superintendent, Mr. Zdravko, is positive. According to him AEROVIT has considerably reduced the undesired downtimes during manual cleaning of the boiler. After 6000 hours of operation the boiler has not yet been stopped. The crew can concentrate on other tasks thus resulting in considerable savings of time and money. Furthermore, the oil consumption is reduced because of an improved utilization of the fuel, explains Zdravko Kesić.

In view of the tight space conditions on some vessels and the possibility of delivering cleaning equipment to water tube boilers, OKR has recently designed a rotating soot blower, AEROVIT Type R. The system is installed between two tube sections. Its main advantages is that it requires less exterior space and allows an automatic 360° rotation with powerful blasts of compressed air which cleans every inch of the boiler sections. The first six systems were delivered to an Italian customer in May 2010.

OKR participates on the Danish stand B1.EG.990.