

ABSTRACT

Arif Syaifudhin, NIT. 50135016. T, 2018 " *Optimization of Steam Production In Auxiliary Boiler Steam in order to meet demands for MV. Kartini Baruna with SWOT methods* ", Diploma Program IV, Teknik, Politeknik Ilmu Pelayaran Semarang, Supervisor I: H. Mustholiq, M.M.,M.Mar.E and Supervisor II: Tony Santiko, S.ST.,M.Si.

Auxiliary steam boiler is one of the hot air that has an important role for the smooth operation of the ship. Boiler frequently encountered is divided into fire tube boiler and water tube boiler. Today the water tube boiler is more widely used than the fire tube boiler for easier maintenance and has a high efficiency.

The boiler aids need to be treated with good primary care for and clean the components associated with the combustion system in accordance with the hours of work in the instruction manual book, such as cleaning the nozzle tip when clogged and replace it if necessary, clean the electrode of dirt carbon former combustion and adjust the distance between the tip electrode with the suit., it will be more influenced to the production and quality of the steam produced.

Prevention in order to avoid a decrease in steam production that is taking care of the combustion system on a regular basis according to the manual book, such as cleaning the nozzle tip when clogged and replace it if necessary, clean the dirt carbon electrode from a former combustion and adjust the distance between the tip electrode with the suit. If a decline in the production of steam caused by the system immediately make repairs on the ignition system that is having problems.

The keyword : auxiliary boilers, combustion system, optimization of production steam.