

ABSTRACT

Farijal, NIT. 51145347.T, 2018“*Analysis trouble of Boiler Burning that cause obstructed the production process of steam on the ship MV. JK Boryeong*”, Program Diploma IV, Technical, Marchant Marine Polytechnic of Semarang, 1st Supervision: Agus Hendro Waskito, M.M., M.Mar.E and 2nd Supervision: Febria Surjaman, MT.

The boiler is a steam formed with pressure more than 1 (one) atmosphere, by heating the water in a closed tube by hot gases who produced from combustion fuel oil in the boiler combustion chamber, and the result is high-pressure hot steam. At this time the boiler that we know is divided into two kinds, that are boiler fire pipe and boiler water pipe. Boiler water pipe is more widely used than boiler fire pipe due to easier to maintenance and high efficiency. Therefore, the boiler must be treated properly, so that the process of steam formation can flowed properly.

The method that used in this scription is fishbone analysis and fault tree analysis as a method to determine the factors of the problem and events that have in the problem. The formulation of the problem for this research are what's factors that can caused the trouble of boiler burning, what's impacts, and what's efforts that are made to existing the problem.

From this research, we can concluded that the cause of trouble boiler burning persuant fishbone analysis is main burner can not working well, themperature of fuel is low, presuant FTA analysis is clogging of automizer, incompatibility of electrode distance, dirty fuel oil heater and bad quality of fuel. The impacts of the trouble boiler burning persuant fishbone analysis is sprayer fuel not perfect and the themperature of fuel is going down, presuant FTA analysis is automizer can not spray the fuel and elektroda can not make burning fire sprinkling and the effort to avoid trouble boiler burning are clean up the atomizer, remeasure the distance between electrodes, clean up the fuel oil heater , and than decrease the viscosity of fuel oil.

Key Words : Analysis, Trouble, Burning, Boiler