ABSTRACT

Triyana Novyantara, 50135041.T, 2016, "*Analysis Leak Water Tube Auxiliary Boilers In MV .Pan Mutiara*", Diploma IV, Teknika, Polytechnic Seamanship Semarang, Tutors I: Agus Hendro Waskito.M.M.M.Mar.E And Tutors II: Febria Sujarman.M.T.

Boiler help is a closed vessel which can form vapor with a pressure greater than 1 atmosphere, by way of heating water kettle on board with gases heat from the burning fuel. Steam will be used to support the operation of a machine and various vessels needs as heat fuel, oil lumas, the kitchen and purposes bathroom and also need better on deck and an engine room. To the leakage water tube a major influence on the performance of auxiliary boiler. This research aims to understand factors, the impact on and reduction effort leak water tube. Factors that can cause to leak water tube is intensity blow down service less, controlling on chemical irregular, lack of testing auxiliary boiler water, the water tube auxiliary boiler not appropriate recommendations from maker, welding a less well in connection water tube auxiliary boiler, running hour exceeds, material the material is not appropriate maker, the operation of not based on procedure. The impact is in caused damage to engineering component and reduced the performance of auxiliary boiler. Auxiliary boiler a decreas work can solve to carry out care and improvement in each other engineering component who have trouble and the damage in accordance with running hours and instruction manual book for auxiliary boiler. At the end of the thesis writer presents conclusions and suggestion.

Keywords : Analysis Leak, Water Tube, Auxiliary Boiler.