ABSTRAC

Ikhfan Nur Rakhimi, 2017, NIT: 49124545.T, "*The Nonoptimal Analysis of How The Condenser Works on Auxiliary Boiler in MV. Oriental Galaxy*" thesis by Engine department, Diplom IV, Semarang Merchant Marine Polytechnic, 1st supervisior : H. Suwondo, M.M, M.Mar.E, 2nd supervisor : Okvita Wahyuni, S.ST, M.M.

Condenser is one kind of auxiliary engine which suitable on the ship used for convert steam becoming water, and auxiliary boiler is a vessel in which it contains water or other fluid to be heated. By this thesis, writer describe the theoretical about condenser as the basic to solve these problem during the observation mostly about condensate system and some of factors which happened in MV. Oriental Galaxy.

This thesis used qualitative method which descriptive as the result, by interview between engineer in charge and writer during the problem occurred and analyzed by fishbone method. In this case writer collected some of documents by observation from condenser it self and all of component that used steam in this process. Based on observation which is done by writer during sea project above MV. Oriental Galaxy, writer found problem with condenser. It started from maintenance process, unavailable spare part which has bad effect for performing condenser work for the condensate process. To solve these problem, 3rd engineer as responsible should be more active to maintenance the machinery by using PMS (Planned Maintenance System) and had to build good communication between ship and company for requesting spare part.

PMS is one effective way in the implementation of machinary treatment, good coordination with the company in order to obtain a response to the availability of items needed by the crew in the care of the machinery on board. Goes hand in hand with both the performance of the crew as well as in supporting the performance of the company include the provision of spare part to.

Keywords : Condenser, Auxiliary boiler, PMS.