ABSTRACT

Irfan Dwi Risnandar, 48114202.T, 2017, "the effect of diesel supply to the motor work in MT. Madelin Expo ", Diploma Program IV, Teknika, Merchant Marine Polytechnic Semarang, Supervisor I: F. Pambudi Widiatmaka, ST., M.T. and Supervisor II: Winarno, S.ST., M.H

One reason for the lack of air rinse into the combustion chamber is the result of the work of Turbocharger and Intercooler is not the maximum so that the combustion in the cylinder did not get the corresponding combustion or combustion is less than perfect. In normal circumstances turbocharger can produce a pressure of 2.3 kg / cm2 and rinse intercooler air temperature $55 \degree C$ at room temperature 410C machine and sea water temperature 300C, whereas in these circumstances the resulting pressure turbocharger down to 1.4 kg / cm2 and temperature rinse intercooler rose to 630C in the engine room temperature 410C and 30C temperature of sea water.

Making this thesis is basically aimed to develop or pouring, thoughts, and experience into written form concerning various problems that occurred onboard, particularly those related to the lack of air supply rinse related to malfunctioning of supporting devices like turbocharger and intercooler to the maximum, who followed the evidence and facts that can be accounted, the making of this thesis also has several general purpose and special purpose.

The research were conducted on the main engine will indirectly lead to problems related to the main engine. So that through these studies the problems that occur will be solved and results in a jawaban. Hasil of the study are expected to be useful for officers machines or machinist, readers and friends also have similar problems, to be used as guidance in order to obtain rinse optimum air in the combustion process in diesel motors main.

Keywords: turbochager, intercooler, supporting device.