

ABSTRACT

Ilham Ardiansyah Pangestu, NIT : 50134939.T, 2018, “*The Effect Of Cooling System On Diesel Engine Work At MV. Armada Serasi*”, minithesis of Technical Program, Diploma IV Program, Merchant Marine Polytechnic Semarang, Supervising professor I: H. Sumarno P.S., M.M M.Mar. E and Supervising professor II: Capt. H. S. SUMARDI, SH, M.M., M.Mar.

Cooling system on diesel engine have a important function on operational for keep the temperature stable. On MV. Armada Serasi have three generator and can be operated only two generator that is the generator number two and generator number three On the running condition sometime we found some trouble like as which happened at the cooling pump diesel motor at the generator number one side that is the pump was not produce maximal pressure, not consist the normal pressure for cooling process diesel motor at generator.

The method used in this research with using SWOT. Data collection techniques are done through observation, documentation and literature study directly on subjects related with cooling system.

In this research obtained from this study that the decrease of the working pressure of generator cooler freshwater pump is due to leakage of pipe connection from the thermostat to the pump suction, there is crust at the impeller and rupture of mechanical seals and leeway on the part shaft bearing. To overcome the above problems in order to perform at the pump to be optimal need to be repaired and treatment with standart operatonal procedure.

Keywords : Cooling system, generator, pump.