

## ABSTRACT

**Jomico Simanungkalit**, 2018, NIT: 500134970.T, "*Analysis is not Normally a Starting Air Valve at the Start of the Main Engine Start in MT. Galunggung*", thesis Teknika Departement, Diploma Program IV, Merchan Marine Polytechnic of Semarang, Supervisor I: H. Amad Narto, M.Pd, M.Mar.E, Supervisor II: Daryanto, SH, MM.

Starting air valve is one of the supporting components of a start air installation that serves as a pressurized air channel that enters the cylinder to push the piston to the lower dead point (TMB) so that the diesel motor can generate its own combustion, where air is the initial step to start the engine operating, starting air valve in the process of the air system is very influential on the start of the start of the parent machine, the existence of the starting air valve will affect the initial process start, so the starting air valve must be maintained properly.

Research method that writer use in preparation of this thesis is descriptive qualitatif research method. In this case the authors use the SWOT method as a data analysis technique to analyze the problems that exist in the starting air valve, ie what factors that cause not normal starting air valve on start engine start and what efforts are made to overcome the factors of the problem by identifying various factors systematically against strenghts, weaknesses, opportunities (opportunities), and threats (threats) from the environment to formulate the strategy to be taken.

Based on the results of research that has been done by the author on the ship can be concluded that the normal starting air valve is caused by several factors, namely Wear valve spindle, air start valve is not elastic and lack of spare part of the company. The strategy to overcome the not normal starting air valve is to carry out maintenance on the starting air valve by performing operations in accordance with the Standard Operational Procedure (SOP), as well as checking and improving the starting air valve that has running hours.

Keywords: main engine, starting air valve, SWOT.