

## ABSTRACT

**Syaiful Umam**, NIT: 50134920. T, 2018, "*Optimization of F.O Purifier Treatment to Improve Move Machine Work Above MT Ship. Musi*", Mini Thesis, Diploma Program IV, Semarang Merchant Marine Polytechnic, Material Adviser (I): Achmad Wahyudiono, M.M., M.Mar.E., Methodologi and Writing Adviser (II): H. Suharso, S.H., S.Pd., S.E. M.M.

Separator is an auxiliary aircraft that serves to separate oil, water and dirt by centrifugal force acting on the basis of differences in specific gravity and oil, water and impurities, so that substances with larger specific gravity will be thrown out first. Knowledge of how to maintain and optimize *F.O purifier* is important to learn in order to improve the working of the main engine on board. This condition encourages researchers to make a study with the title optimization of *F.O purifier* to improve the work of the main engine on board the MT. Musi. The purpose of this study is, to determine what factors can improve the performance of the main engine on the ship on the MT. Musi, besides that research aims to know what efforts are done to treat *F.O purifier* on MT. Musi.

This research uses descriptive qualitative method by using data analysis technique of *Strengths, Weaknesses, Opportunities, and Threats* (SWOT) which is systematic identification of various factors to formulate company strategy. In addition, data collection is done by interview, documentation, observation by observing at the time of *overhaul* in MT. Musi.

The results showed that the treatments performed on *F.O purifier* regularly and well according to *Instruction Manual Book* in divided into several periods namely daily maintenance, monthly maintenance, annual maintenance so that the performance of the *F.O purifier* can work optimally and avoid the occurrence of damage, resulting in fuel which is good quality for diesel motor burning.

**Keywords:** *F.O. Purifier, oil separating, SWOT*