ABSTRACT

Sunarwan, 2018, NIT: 50134979. T, "*Optimization of Crane work to support loading and unloading activities in MV. Armada Persada* ", Diploma IV, Teknika, Semarang Merchant Marine Polytechnic, Preceptor: (1) F. Pambudi Widiatmaka, S.T., M.T., M.mar.E. (2) Capt. Didi Sumadi, M.Mar.

The vessel carries a load according to the type of vessel and its cargo, today everything is demanded to be done quickly, precisely and safely, then the condition of the loading and unloading equipment must be absolutely optimal in order to always be ready to use at any time. The background of this thesis writing is the occurrence of crane work problems that are not optimal in MV. Armada Persada. . From these problems the authors make the formulation of the problem according to the case ever experienced, namely 1) What are the factors that affect the crane work is not optimal ?, 2) What are the constraints found and how to cope with the use of loading and unloading tools cranes ?, 3) Anything maintenance efforts that need to be done to optimize crane work?

The research method used is qualitative that describes and describes the object under study. Based on how to obtain data obtained during the study using primary and secondary data that is from interviews, observation, and literature study. Researchers use SWOT data analysis techniques consisting of Strengths, Weakness, Opportunities, and Threats. By looking at strengths (Strengths), Weakness, Opportunities and Threats, we can see how to solve the problem.

Based on the results of research as for factors that cause crane work is not optimal is: because of lack of care, and machinery that is old. The problem constraints found are the low hydraulic oil viscosity, the worsening of the gears on the hydraulic pump, and the dirty hydraulic oil filter. Efforts to optimize crane work is to make possible immediate repairs on the damaged parts, and perform the treatment as effectively as possible.

Keywords: Optimization, Viscosity, crane maintenance