

ABSTRACT

Muhamad Wahyu Shidqi, 2017, NIT. 50134788.N : “*Optimization Performance of Framo Cargo Pumps in MT. New Winner*”, Diploma IV Program, Nautical Department, Merchant Marine Polytechnic of Semarang, Supervisor I: Capt. Hadi Supriyono, MM, M.Mar, Supervisor II: Okvita Wahyuni, S.ST, MM.

Framo Cargo Pumps / Independent Pumps is a tanker ship pumps where in each tank there is one cargo pumps which is used for doscharging and used for stripping process (drying). Framo Cargo Pumps is one of a kind of centrifugal pump where this pump is operated through cargo control panel system in cargo control room. In the inaugural voyage MT. New Winner on October 18, 2015 voyage 01 / D / 2015 at Dumai port RU-II will unload the HOMC (High Octant Mogas Component). Where previously there had been a change of crew on board one set. Where the crew is not familiar with the performance of Framo cargo pumps. So when the ship is carrying out discharging activities in because the discharging time of the ship exceeds the time specified in the discharge agreement or slow rate occurs at the pump vessel. Upon completion of the demolition process, checks were conducted on the ground tanks and found the difference in disassembly rate (R3) for the significant HOMC load of -982,869 Bbls (-1.00%). After evaluation of the event, the familiar operating system Framo cargo pumps, where senior officers try to familiarize the videotel and train all crew decks about the operating system Framo cargo pumps.

This research uses descriptive qualitative method by describing in detail about performance of Framo Cargo Pumps in MT. New Winner. In determining the priority of the problem to be resolved, the researcher uses an approach tool that is USG (Urgency, Seriousness, Growth) method by giving score 1-5 on the causes of slow rate and Unpumpable Cargo Remain On Board (ROB) in MT. New Winner.

From the results of the research shows that the effort to optimize the performance of Framo cargo pumps is by giving familiarization about the operating system Framo cargo pumps through videotel and training to ship crew according to Standard Operating Procedure (SOP).

Keywords : *Framo cargo pumps, slow rate*