

## ABSTRACT

**Hanif Mulyawan Widyananda**, 2017, NIT:50134875.N, “*Optimization Of Maintenance Deck Crane Appliances To Support Loading And Unloading Process Effective At MV Isa Express*”, final project of Nautical concentration. D IV Program. Merchant Marine Polytechnic Semarang. Lecturer I : Capt. Agus Subardi, M.Mar., Lecturer II : R.A.J Susilo Hadi Wibowo, S.IP., M.M.

To deliver cargoes from loading port to discharging port at the ample time, doing a maintenance of deck cargo appliances is one of important things for smoothness of loading process. Based on that fact, the author make the final project with the tittle is “Optimization of maintenance deck crane appliances to support loading and unloading process effective at MV Isa Express”. During doing a maintenance of deck cargo appliances, the author found two main problems: What problems occur in the loading and unloading process so it is necessary to hold maintenance of deck crane appliances, then what kind of efforts that have to do for smoothness loading and unloading process by deck crane appliances maintenance.

Based on the problems during deck cargo appliances maintenance, there is some hypothesis, those are : it is suspected that disturbance of deck cargo appliances at MV. Isa Express due to poor maintenance for crane that effects on loading/unloading process.

In this thesis, the method of research were used urgency, seriousness, growth (USG) method. The method of completion and withdrawal of data used observation techniques, interview, and take documentation. Meanwhile, the discussion of the thesis used qualitative descriptive analysed technique.

Based on the analysis, the maintenance of crane cannot be done regularly, it affects to the failure of deck cargo appliances and loading/unloading process will be overdue/disturbed. It is because of the lack amount of supporting appliances so ships' crew cannot work well.

From the analysis results, the conclusion is crane have to be maintain regularly using maintenance method. The method must be carried out in order and good manner as per schedule, so the failures of deck cargo appliances can be avoided and it is ready for the next loading/unloading process.

**Keywords:** Maintenance of deck crane