

ABSTRACT

Mar'ie Muhammad Akbar,2018, NIT: 50134851.N, “*Damage prevention of ship's crane in order to smooth the process of loading and discharging on MV. DK 02*”, skripsi Nautical Study Program, Program Diploma IV, Merchant Marine Polytechnic of Semarang, 1st Supervisor : Capt. Didi Sumadi, M.Mar, 2nd Supervisor: H. Suwondo, M.M., M.Mar.E

Any damage of the ship's crane is a problem that often occurs in the process of loading and discharging on bulk carriers that found into the ship's crane. Ship's crane is a very important device for process of loading and discharging. So that the loading and discharging process go smoothly, it can decide by the factors that cause breakdown to the ship's crane, how to solve the damage of ship's crane, as well as damage prevention on the ship's crane. The methods used by researchers to solve the problem is a descriptive and qualitative so that researchers can explain the results of the research. Data is collected through documentation, observation and interview. Researchers did observations directly onboard at MV. DK 02, researchers did interviews with the Captain and all of the crew. Researchers also took pictures to support the observation research data.

Results of the study showed: the enormous factors that influence smoothly process of loading and discharging is a damage in ship's crane like the break wire crane, the damage of crane machine and automatic grab. The way to solve ship's crane damage is with replacing wire or wire grab crane which suffered damage or break up and fixed automatic grab crane and engine damage. After that, doing maintenance to prevent a damage on the ship's crane that can cause the loading and discharging onboard is not running well.

From the result of research it can be concluded that insufficiency loading and discharging process in MV. DK 02 caused by damage to the crane ship, wire grab, damage to the crane machine and automatic grab should be anticipated. Because one of the shipping principles is punctuality. So the shipping will on time if the process of loading and discharging went smoothly and did not delay.

Key words: *Damage crane prevention, for smooth, Loading and discharging process.*