

ABSTRACTION

Trias Adi Sutrisno, 2018, NIT: 50135040.T, “*Dehumidifier Treatment Series At High Moisture in MV. YUSHO PRINCESS II*”, Program Diploma IV, Technical, Merchant Marine Polytechnic of Semarang, Supervising I: Abdi Seno, M.Si., M.Mar.E and Supervising II: Capt. Didi Sumadi, M.Mar.

Dehumidifier is a tool used to remove moisture in air with ceramic dehumidity rotor applications. heater filters and other devices used in one package. The rotor with a strong ceramic fiber and has good durability and superior with this is a rotor that will not produce overhead with unexpected problems. Rotary buttons that keep air dry. a single rotor that turns to absorb the air and retrieve it. the continuation of this circle produces a total dehumidification effect. The condition of the dehumidifier on the vessel is very detailed against the moisture level in the hold. The presence of disturbance in the rotor dehumidifier affects dehumidifier conditions, dehumidifier rotor conditions should always be maintained.

Research method that writer use in preparation of this thesis is descriptive qualitatif research method. In this case the authors use the combined method of fish bone analysis with fault tree analysis as a data analysis technique to analyze the problems that exist in the dehumidifier machine, ie factors that cause no rotation of the dehumidifier rotor, the impact and what efforts are made to overcome the factors of Correcting it by searching for the various factors from each category systematically to machine (machine), procedure (method), human (human), and nature (mother nature) of the environment to formulate a strategy to be weighed.

Based on the results of research conducted by the author. YUSHO PRINCESS II on March 10, 2016 to March 26, 2017, it can be concluded that the rotor dehumidifier does not rotate caused by two factors, namely 1) mechanical damage to motor components controlled by surface and maintenance. 2) the stress inflicted by corrosion expressed by corrosive environmental conditions. To overcome these factors can be replaced broken components with new ones, and the replacement of stress that is attacked by corrosion with a new voltage.

Keywords: dehumidifier, rotor dehumidifier, combined fishbone with FTA.