

## ABSTRACTION

**Satria Rezsa**, 2018, NIT: 51145376.T, “*Damage Analysis of Crank Pin Bearing On Diesel Generator Motor in MV. Kartini Baruna*”, Program Diploma IV, Technical, Merchant Marine Polytechnic of Semarang, Supervising I: Dwi Prasetyo, M.M., M.Mar.E and Supervising II: Tony Santiko, S.ST.M.Si

The shipping company will provide the best possible service in order to compete to serve the needs of sea transportation, the shipping company must also be able to make the vessel always in good condition and ready to be used considering the time is very valuable in the shipping company or for the shipmakers, one of the things the main thing to compete is to look at the condition of a good machine, ready-made equipment and routine maintenance. One of the most important engines or equipment on board is a diesel engine generator because it is one of the ship's auxiliary aircraft. Crank pin bearings are one of the components in a diesel generator engine that serves as a protective cranksaft on a diesel generator motor. Crank pin bearing condition is very influential because it is related to the working system on cranksaft, if the crank pin bearing experience wear and tear because of friction it will cause a leak which resulted in the performance of diesel motor does not run smoothly.

This study aims to determine the factors that cause damage to the crank pin bearing and to determine what efforts can be done to prevent such damage. The methodology in use, in terms of type of research is a qualitative description and in terms of data collection this study using interviews, observation, literature study, and document studies.

From the results of the discussion and research conducted, there are several important problem factors that should be discussed are: factors that cause damage to the crank pin bearing and how to overcome the damage to the crank pin bearing. At the end of this study the researcher summarizes the conclusions of damage to the crank pin bearing on MV. Kartini Baruna is a pressure factor and lubricant oil cooler and wear on crank pin bearing. The researcher advises the company to provide better component parts, and advice for machinists to improve routine maintenance of the crankpin bearings, taking into account the factors causing wear and leakage of the lubricating oils associated with crankpin bearings.

**Keywords:** Diesel motor, Crank pin bearing, damage identification, effort