

ABSTRACT

Soni Hadi Priyono, NIT. 51145359.T, 2018 "*Analysis has overloaded the bow thruster to smooth maneuvering on ship SV. Temasek Attaka*", Program Diploma IV, Technical, Marchant Marine Polytechnic of Semarang, 1st Supervision: Dwi Prasetyo ,MM,M.Mar.E and 2nd Supervision: Capt. I Kadek Laju ,SH,MM,M.MAR.

Bow thruster system is a auxiliary aircraft for maneuvering the ship when it will lean or will leave the dock, namely by utilizing the propeller rotation which provides axial force / transverse force on the bow of the ship.

The method that used in this scription is fishbone analysis and fault tree analysis as a method to determine the factors of the problem and events that have in the problem. The formulation of the problem for this research are what's factors that can caused the trouble of boiler burning, what's impacts, and what's efforts that are made to existing the problem.

ased on the results of this study concluded that the cause of overload on the bow thruster is the control system of the auxiliary bow thruster aircraft which is malfunctioning or not working properly so that the bow thruster control is not normal, and results in the occurrence of trouble / interference to the main component of the bow thruster compiler on the drive motor (electromotor), hydraulic power pack, gear transmission and propellers (with controllable pitch propeller). The abnormal bow thruster operation results in disruption of the ship's maneuvering process, as well as resulting in an increase in the workload of the generator which supplies electric current for its operation and can trigger overload on the bow thruster which can cause trip out, efforts to avoid overload on the bow thruster are replacing components that are damaged / not functioning properly with new components.

Key Words : Analysis, overload, Bow thruster