ABSTRACT

Dhavid Ardhiansyah, 2018, NIT: 51145375 T, "Analisys on increasing oil quality of oily water separator process on MV. Glovis Daylight", Program Diploma IV, Technical, Merchant Marine Polytechnic of Semarang, Supervising I: Drs. Edy Warsopurnomo, MM., M.Mar.E, Supervising II: Capt. Samsul Huda, MM, M.Mar.

Oily water separator is one of auxiliary engine that functioned to separate oil from bilge water trough that process, the plant might separatieng less than 15 ppm so bilge water in the sea can not make pollution. This engine has role to prevent water pollution relevant with MARPOL 1973 ANNEX I . The purpose of this research is to know factors can cause the high content of oil relased by OWS process.

In this case the authors use the fishbone and fault tree analysis method as a data analysis technique to analyze the existing problems in the oily water separator, which factors are causing on the increasing oil quality of oily water separator process on MV. Glovis Daylight, the impact and what efforts are made to overcome the factors of the problem by identifying various factors using fishbone method and fault tree analysis method.

Based on the results of research that has been done on the MV. Glovis Daylight on August 6, 2016 up to September 6, 2017, it can be concluded that the increasing oil quality of oily water separator process on MV. Glovis Daylight caused by many factors, namely coalesscer filter in dirty condition, bilge well contained much dirty oil, lack of maintenance and operating procedures are not appropriate according to the instruction manual book.. To overcome these factors can be cleaned or changed the coalesscer filter and cleaned bilge well, and doing maintenance optimally.

Keywords: oily water separator, filter coalesscer, fishbone, fault tree analysis.