

ABSTRACT

Wahid Ardiyanto, 2018, NIT : 50134921.T, “*efforts to improve the ability of oily water separator on bilge disposal process on board mv.permata ship*”, ”, minithesis of Technical Program, Diploma IV Program, Merchant Marine Polytechnic Semarang, Supervising professor I: Drs. Edy warsopurnomo, MM., M.Mar.E and Supervising professor II: : Capt. Samsul Huda, MM, M.Mar.

Oil Water Separator (O W S) is used to separate oil with water, so that the oil content that comes out before the exhaust to the sea does not exceed 15 ppm. Oil Water Separator is used for bilge. In the process Oil Water Separator systems often experience constraints that the length of bilge drainage process and still the oil content. The method used is descriptive quantitative, with data analysis technique SWOT Streangth, Weakness, Opportunities and Threats, which is a form of situation analysis by identifying various factors systematically to the strength (streangth), weakness, opportunities and threats) from the environment to formulate a strategy that will return.

Causal factors The decline in OWS work and the impact it generates and the way it is handled when the OWS work decreases. The declining factor of OWS work is caused by the dirty filter coalescer due to oil deposits and causing pressure on the high coalescer tank. Degradation of pump performance which resulted in inefficiency in soil sucking process so that the drainage of water got disturbed.

The decrease in OWS work can be solved by repairing the damaged system, replacing the damaged spare part of the pump, and routinely cleaning the filter, doing periodic checks on the OWS and taking note of the meter when the machine is operating. Use the manual book as a guide when doing maintenance.

Keywords: *Oily water sparator, bilge pump, coalescer filter, bilge*