

ABSTRACTION

Sri Pulung Edy Wicaksono, NIT : 50135009.T, 2016, "*Plan Maintenance System (PMS) application to air compressor in MV DK 01*", Program Diploma IV, Technical, Marchant Marine Polytechnic of Semarang, Supervising (1): Dwi Prasetyo, M.M., M.Mar.E and Supervising (2): Henny Wahyu Wardhani, M.Pd

Engineers have to know preparation before PMS application to sailing will be smooth, safety and on time with schedule, so in application of PMS to air compressor. Based on in a fact the author interest to make thesis "Plan Maintenance System (PMS) application to air compressor in MV. DK 01". In other side, for supporting the sailing on the sea air compressor cannot be ignored off hand. Because air compressor is an auxiliary engine to produce the pressure air.

Based on the interview, observation and documentation that preparation before PMS application to the air compressor is to account the ship age, follow the shipping service and consideration from survey regulation according to classification. PMS application steps to air compressor are making maintenance schedule air compressor, application computer PMS program to maintenance of air compressor and air compressor activity. The result of observation got an obstades on the PMS air compressor is trip happened suddenly when maneuver to Tanjung Intan port and damage to impeller FW cooling pump. Problem above taken is emergency maintenance. Based on the interview, observation and documentation that means, taken the conclusion that engineers have to do observation so that we can find the damage follow the maintenance schedule, do maintenance at regular intervals than can prevent the damage to air compressor.

Keywords: Application, *Plan Maintenance System* (PMS), Air compressor, MV DK 01