

ABSTRACT

Muhammad Awaluddin Khoir, 50134913.T, 2018, "*Analysis of the cause of the compressor performance degradation of cooling machine in MV.Energy Prosperity by using SWOT method*", Diploma IV Program, Teknika, Merchant Marine Polytechnic, Advisors: Dwi Prasetro, MM, M.Mar.E, MM, M.Mar .E and Advisor II: Dodik Widarbowo, MT, M.Mar.

Sailing will be able to reach its destination safely and safely if the food is well supplied, foodstuffs are the main ingredients to be aware of its existence. To maintain the quality and quantity of food on board, one of them can use the food cooling system. Refrigerator is a machine that serves to cool and preserve food.

The purpose of this study is to be able to find out what influences the compressor's performance degradation of the cooling machine in MV.Energy Prosperity by using SWOT method which results in factors that may affect the compressor's performance degradation when the compressor operates and stops too often, decreases compression pressure and also the suction pressure is too low. In this study, the authors used a descriptive qualitative method using sub-application of the authors to limit factors that may affect the decrease of compressor performance to the cooling machine.

After the authors make observations of the factors above can the author convey as follows. The effect of decreasing compressor performance on cooling machine is decreasing compression pressure on the compressor due to broken piston rings and worn cylinder liner wall can cause compression pressure to decrease. So that required the maintenance of a routine and well-planned degan good proes pressure perfect compression. And hopefully this thesis is useful for the compression system on the compressor in case of damage.

Keywords: Compressor, SWOT, cooling machine.