

ABSTRACT

Ade Rizki Supian, NIT. 50134897. T, 2017 “*Optimizing Exhaust Gas Valve of Diesel Generator on MV. Pan Global*”, Diploma IV, Teknik, Politeknik Ilmu Pelayaran Semarang, Tutors I: Agus Hendro Waskito, M.M., M.Mar.E and Tutors II: Febria Surjaman, MT.

Exhaust gas valve is a component of a diesel engine which serves as the exhaust gas discharge of combustion in the cylinder and ensure that the former of combustion gases out of the cylinder in total. This valve is moved using a mechanical drive. Condition of the exhaust gas valve is very influential on the diesel generator, because the exhaust gas valve directly connected to the combustion chamber in diesel engine generator.

Writer take a method of qualitative using analisys techniques Urgency Seriousness Growth (USG). USG is one of the priorities in order to prepare issues must be completed. The trick is to determine much address the crisis, seriousness and development issue with determine a scale of 1-5 or 1-10. Issues that has a total the highest scores priority is issues.

From the discussion and research conducted, there are some important issues to be discussed, that is: factors that cause damage to the exhaust gas valve, the influence of the exhaust gas valve damage to the diesel generator and an attempt to overcome damage to the exhaust gas valve. The conclusion that can take is the author of the exhaust gas valve damage can be caused by several factors, that is: setting improper valve gap, lack of cooling on the valve, the use of heavy fuel and material fatigue. Suggestions authors regarding the above issue is expected to the machinist to improve the treatment of exhaust gas valve, with good attention to the factors that cause damage to the exhaust gas valve and improving the care of the systems associated with exhaust gas valve.

Keywords: Diesel generator, exhaust gas valve, qualitative, USG