

ABSTRACT

Ari Furrahman, NIT: 48114099. T, 2017 “Anasilis Circulation Against Media Cooling Engine Cooling in MV. CTP FORTUNE ”, Diploma IV, Teknika, Politeknik Ilmu Pelayaran Semarang, *Preceptor* I: Aslang, M.Pd, M.Mar.E, Pembimbing II: Sri Wurdawati, S.Sos.,M.Si

The main principal on a good refrigerator is the desired temperature of cooling chamber must be achieved. However, in fact, refrigerator is not always able to work optimally. There are many problems causes the cooling chamber does not becomes cold. One of the requirements for the refrigerator to work properly is a good freon gas circulation. If the Freon gas circulation is interrupted, it will decrease evaporation capacity of refrigerant in evaporator and the refrigerator will not be able to achieve desired temperature of cooling chamber.

The result of the research mention that the factor caused the disruption of cooling medium circulation to refrigerator is mount of lub oil entered the freon system is caused by the nap less rings piston, piston and cylinder liner. There is solution to resolve a the cooling medium circulation is to implement a planned maintenance for refrigerator on board.

The conclusion from the research, if the disruptions can not be resolved properly, it will make any losses. So, to minimize the loss cause from any damage and spoilage, refrigerator should be maintained properly. Procedures for maintenance listed on Manual Book should be followed. Even it is daily treatment, weekly, quarterly and annual treatment. Furthermore, engineer is asked to be responsive when the negligence working of refrigerator occurs. One more thing that should not be ignored is the crew of the vessel should maintain a good relationship with the ship owner. The ship owner's role here is to supply spare parts and provide shore technicians if needed. In this case, the request for spare parts should be planned well.

Keywords: Circulation Refrigerant, Fishbone, MV. CTP Fortune