

## ABSTRACT

**Ario Wahyu Hendrianto**, 2018, NIT: 50134864. N, “*Countermeasures Of Broken Hydraulic Pipe At Opening The Hatch Cover On Mv Karunia*”, Nautical Departement, Programs Diploma IV, Merchant Marine Polytechnic Semarang, First Mentor : Capt. Agus Hadi Purwantomo, M.Mar, Second Mentor : Tony Santiko, S.ST, M.Si.

Hydraulic pip is special pipe that create become holding a high preasure that come from the power winch, thats all function is for lifting the jack of hatch cover. For processing the charging and discharging. An hydraulic that does not have a good maintenance , can make it broken, so it can inhibit to proceed of charging and discharging, and waste a lot of time for fix it. A special maintenance is important to decrease a think thaat we dont want it happen, especially when charging and discharging.

Looking the importency of detailed maintenance of hydraulic pipe, so performed a combination that can prevent the breaking of the hydraulic pipe. In this case writter use desriptive kualitative metod to explain the research object. This metod use by collecting the result of archived and analized data to connect with the theory to archive logic conclusion.

From the result of research founded some factor that cause of the breaking of hydraulic pipe in unexpected time. In about of cracking and rusty in hyraulic pipe cause of less detailed maintenance and less of spare part. And eforts to make unbreaking hydraulic pipe is with proper and detailed maintenance, also checking in period and checking before and after use.

With gathering result from some research of the writter, hopefully that the maintenance system can prevent thre risk of unexpected breaking of hydraulic pipe. So the process open and close of the hatch cover can functionable, and the process of cargo operation in good condition without obstruction.

Key word : Hydraulic pipe, hatch cover, loading and discharging progress, discriptive kualitative