

## ABSTRACTION

**Ahmad Syauqi Awaludin**, 2018, NIT : 50134956.T, “*Analysis of leakage of cargo crane hydraulic affecting loading and unloading process in MT. Medelin west*”, *Studies Diploma IV, Merchant Marine Polytechnic Semarang*, Supervisor I: H. Rahyono, SP.I, MM, M.Mar.E, Supervisor II: R.A.J Susilo Hadi Wibowo, S.IP, MM

An aircraft auxiliary hydraulic crane used for loading and unloading process on the ship that should get the attention and intensive treatment and continue, so that the hydraulic crane can operate smoothly and hold in the long term. If the hydraulic crane employment decline will mengakibatkan delay in the process of loading and unloading, it is extremely detrimental to all the shipping company in general. The factors causing a decline in the working hydraulic cranes which are hydraulic oil viskositas already lace, cooler water damaged, and lack of maintenance.

As a function of the wear of gears on hydraulic pump, hydraulic oil, and water cooler is to keep working drai optimum hydraulic cranes. For the hydraulic crane that is used must have a good and quality criteria in accordance with the specifications. It can be seen from the working hydraulic crane during operation is whether it works optimally. Additionally oil hydraulic, and water cooler used to be guarded quality to prevent rapid deterioration, because if one part of the crane hydraulic damaged course will cause negative effects and will also result in a longer process of loading and unloading on top ship.

Therefore, maintenance on oil hydraulic, and water cooler are regularly and systematically is so absolutely necessary to the crane hydraulic, and to keep working crane hydraulic it is necessary to care or maintenance of components that it will writers discussed in this thesis.

**Keywords:** viscosity, hydraulic crane maintenance work