ABSTRACT

Muhamad Hasan Ashari, 2018, NIT : 50134849.N, *"Pipe Maintanance Optimization Effort to Prevent Marine Polution in MT. AKRA 30"*, Nautical Thesis, Diploma IV Program, Politeknik Ilmu Pelayaran Semarang, Supervisor I: Capt. Hadi Supriyono, MM, M.Mar. Supervisor II: Okvita Wahyuni, S.ST, MM

The background of the problem is maintanance of loading pipe and the prevention of pollution. If the pipe maintanance is not optimal and leak occur will affect to loading process also could cause marine pollution

This research's purpose is to know what are factors that affect loading pipe leakage onboard MT. AKRA 30, consequence that occur if there is pipe leak and effort to prevent pipe leakage. Type of research is descriptive qualitative. While the collection data method that used are observation, interview, documentation, literature review to related subject which are loading pipe maintanance and preventation of oil pullution

In data analysis and research's result contain writer's explanation about general view of research object and how to prevent pipe leakage and preventation of oil pollution that corresponding with writer's observation and interview. And then compared to any procedure that existed. Finally writer could take conclusion that there are some factors that cause loading pipe maintanance and pollution preventation in MT. AKRA 30 is not optimal, which are crew's role, master, drill implementation that not going well. Where loading pipe maintanance and pollution preventation training is not yet impelentated regularly with duties and responsibility from every crew about oil spill handling that listed on Shipboard Oil Pollution Emergency Plan (SOPEP) Drill is not yet well impelentated.

Keywords : *Optimization, Maintanance, Pollution*