

ABSTRACT

Nanda Tendi Pratama, 51145323. T, 2018 " *Analisa rusaknya lifter pin terhadap wire locking saat towing barge di kapal SV STELLA 28*", Diploma IV Program, majoring in teknika, Polytechnic of Semarang Sailing Sciences, Advisor I: H. Mustoliq., MM, M .Mar.E, Supervisor II: Tony Santiko S, ST, MSi.

Inside the AHTS ship there is a tool or auxiliary machine that is Lifter pin. Lifter pin is to hold the wire remain in the middle position or a straight line with drum towing and drum work so that wire does not move up or down at the time of towing. There is also the formulation of the problem of factors that cause not optimal Lifter pin work and what efforts should be done to optimize the work of the pin Lifter. The intent and purpose is to know the factors that cause not optimal Lifter pin work and to know what efforts should be done to optimize the work of the Lifter pin

The method used in this thesis is the method of fishbone analysis and fault tree analysis as a method to determine the problem factors and events that exist in the problem. The problem formulation of this research is what factors causing damage to the lifter pin, what impact is caused, and what efforts are made to the existing problem.

The conclusions can be from the damage analysis of Lifter pin to wire locking when towing barge process on ship SV. STELLA 28 is the factors that affect the not optimal Lifter pin is Less optimal hydraulic system caused by leakage in the hydraulic pipe due to corrosion pipe, On the line of hydraulic oil there is dirt and Dirty filter on the hydraulic system. The rise of hydraulic oil temperature caused because clogging hydraulic cooler. The effort done to optimize the work of Lifter pin is to replace the pipe with a new one and replaced with the appropriate one in the manual book, Performing disassembly on the flow line of hydraulic oil to be cleaned dirt accumulate in the flow of hydraulic oil flow by bribe, and replacement on the filter according to the manual book for perfect results .. Perform cleaning on hydraulic cooler by cleaning using brush wire and fresh water.

Keywords: Lifter Pin Damage, fishbone analysis method and fault tree analysis