

## ABSTRACT

These day, manufacture industry experiencing of fast growth. In order to improvement quality and quality produce, needed an optimal amachine treatment so that the machine component is not be timeworn. Research object in this final task is hydraulic pump. Inspection activity need conducted to monitor pressure pump. During the time the inspection done periodically as according to company policy. Becoming question is : " Whether the inspection schedule have effective?" Need to do an analysis to give effective proposal supported with reason which can be accepted and own clarification scientifically.

Weibull distribution is a applied method to determine correct time/schedule replacement for the hydraulic pump component. This distribution according to calculation of malfunction of component / wear out component. Output that are provided by software in the form of recommendation time of replacement of hydraulic pump component and also recommend expense that is needed for the component replacement.

This Final Paper is built using *structured* analyze and design with Sekuensial Linear type of modelling. Mean while the database is built using MySQL. The Tools needed to easier the development of this application are: Microsoft Visio Professional 2003 for modelling system and Delphi 7 for the programming language.

*Kata kunci : manufacture indutry , hydraulic pump, Weibull distribution*