

ABSTRACT

Population and economic growth in Indonesia every year can affect the needs of the population which will increase in accordance with the growth that occurs. One is needed in the population is textiles. Esgotado is a textile industry factory located in Bandung city. Esgotado has become one of the big sellers whose reach is all over Indonesia, many shops or well-known companies that become regular customers. Products from Esgotado are bags, clothes, shoes, pants but the most superior are bags. However, at Esgotado there is also frequent damage to the engine which certainly can cause a lot of losses to the factory. In this study the author chose Bartek Machine as an object because this machine is used for all existing production processes and has the highest level of damage among other machines, the function of the Bartek Machine is to lock stitches in certain parts such as pocket or zipper area. Based on the condition of the engine, optimal maintenance methods are needed and know the level of risk generated from the Bartek Machine using the Risk-Based Maintenance method. From the results of data processing carried out by the method of Risk-Based Maintenance the Bartek machine has a risk of Rp 56.824.338 (0.843%). These risks exceed the criteria for receiving the company, which is Rp. 50.544.000 (0.75% of income per year). The resulting maintenance interval is in the form of a restore task and discard task. The maintenance intervals in the Needle components are 395,037 hours, Sewing Machine Shoes are 1415,95 hours and the Sewing Machine Gear is 293,309 hours.

Keywords: Maintenance, Risk Based Maintenance, Maintenance Interval