

ABSTRACT

In today's industrial world, the machine can be likened as the heart of the production process, where when the machine is damaged then the production process can be hampered or can stop completely depending on how severe the damage the machine suffers. Therefore, the maintenance and maintenance of the machine is needed in order to achieve a smooth production process and can minimize interference in the production process. Pt. XYZ is a manufacturing industry company engaged in the manufacture of military and commercial heavy equipment products. In this study, the authors chose the Huron Machine as an object because it is used for important processes and has the highest level of damage among other machines. Huron engine is an engine that serves to carry out the production process of small to medium-sized components such as marine component parts, excavators, and others. This machine is a frais machine owned by PT. Xyz. In this study, the authors focused data processing on 2 critical components namely Relay KA 1 and Limit Switch. From the results of data processing carried out by Risk Based Maintenance method, Huron Machine has a risk of Rp 235,744,047 (0.39%). The risk passes the company's receiving criteria of Rp 179,712,000 (0.30% of revenue per year) hence the need for Maintenance Interval. Maintenance Interval on Relay KA1 components 1578.98 hours and Limit Switch 1878.79 hours.

Keywords: Maintenance, Risk Based Maintenance, Maintenance Time Interval