

ABSTRACT

PT ABC is a company printing industry in Indonesia, located in the area of Soekarno Hatta, Bandung. Production activity in demanding enterprise engine is operating properly. Komori LS440 machine is printing machine downtime sheet that has the highest with a large amount of production received that the machine is not working optimally. To overcome this, activities of maintenance on the machine Komori.

The method used is the method of Life Cycle Cost (LCC) to determine the amount of maintenance crew and the retirement age is optimal from a machine. To get the total LCC, the cost of processing required by the LCC method, namely sustaining cost and acquisition cost. Another method used is the method of Overall Equipment Effectiveness (OEE) to determine the performance and the effectiveness of the machine. In OEE calculation to determine the value of availability, performance rate, and the rate of quality product from a machine. Further examination of the six big losses factor to determine what factors lead to low OEE value.

Based on the LCC method, the lowest LCC total amounted to Rp 3,631,528,201 with the optimal retirement age is eleven years and the maintenance crew of three people in one shift. For the calculation of OEE values on Komori machines amounted to 85.91%. The value of the standards set by the Japan Institute of Plant Maintenance (JIPM) by 85%. The company can anticipate from the six big losses that the most influential factor to the decline in the effectiveness of the engine is idling and minor stoppages factor amounted to 66.45% of the total losses.

Keywords – Life Cycle Cost (LCC), Overall Equipment Effectiveness (OEE), Six Big Losses