ABSTRAK

PT. XYZ merupakan perusahaan manufaktur yang bergerak di bidang otomotif. Perusahaan tersebut memproduksi bak kontainer truk pengangkut. Dalam memproduksi bak kontainer, PT. XYZ memproduksi komponen yang diperlukan dalam pembentukan bak secara menyeluruh diantaranya adalah komponen frame chassis bak yang terbuat dari plat besi baja. Dalam memproduksi frame chassis truk dapat diketahui bahwa target produksi dari pembuatan komponen frame chassis truk tidak tercapai pada produksi dengan mesin tekuk. Tujuan penelitian ini untuk mengetahui tingkat efektifitas dan efisien mesin dengan mengalisa Total Productive Maintenance dengan metode overall equipment effectiveness dari mesin tekuk dan faktor kerugian dari mesin tersebut dengan six big losses. Setelah itu, dilakukan analisa menggunakan fishbone diagram untuk mendapatkan penyebab masalah dari mesin tekuk. Dari Hasil penelitian, dapat diketahui bahwa rata-rata nilai avalaibility sebesar 91,92%, nilai performance rate sebesar 75,11% nilai rate of quality product sebesar 90,18%, dan nilai overall equipment effectiveness sebesar 62,27%. Sehingga dapat diketahui bahwa nilai overall equipment effectiveness rendah dikarenakan performance rate yang rendah. Faktor presentase terbesar pada analisa menggunakan six big losses adalah reduced speed losses sebesar 23,86%.

Kata Kunci: *Total Productive Maintenance, Overall Equipment Effectiveness, Fishbone Diagram, Six Big Losses*

ABSTRACT

PT. XYZ is a manufacturing company engaged in the automotive sector. Where the company produces container trucks. In producing container tubs, PT. XYZ manufactures the necessary components in the overall formation of the body including the body frame chassis components made of steel plates. However, it can be seen that the production target of making truck chassis frame components was not achieved in production with bending machines. Therefore, the purpose of this study is to determine the level of effectiveness and efficiency of the machine by analyzing Total Productive Maintenance with the overall equipment effectiveness method of the bending machine and the loss factor of the machine with six big losses. After that, an analysis was carried out using a fishbone diagram to find the cause of the problem from the bending machine. From the research results, it can be seen that the average availability value is 91.92%, the performance rate is 75,11%, the rate of quality product is 90.18%, and the overall equipment effectiveness value is 62,27%. So it can be seen that the overall equipment effectiveness value is low due to the low performance rate. The biggest percentage factor in the analysis using six big losses is reduced speed losses of 23,86%.

Keyword: *Total Productive Maintenance, Overall Equipment Effectiveness, Fishbone Diagram, Six Big Losses*