ABSTRACT

PT. Garut Makmur Perkasa is one of industrial factories that works on leather tanning in Garut, Jawa Barat. Splitting machine is one of many machines in PT. Garut Makmur Perkasa which function is to split the skin between nerf (the part that starts the next process) and flesh (the part that is not needed). The splitting machine always needs to be ready to use because it affects production targets and company's revenues. High damage frequency on splitting machine in 2017-2019, around 125 times damage that caused the machine's low effectiveness, it's a must to do the activity that could increase splitting machine effectiveness. This research proposes the company to carry out Total Productive Maintenance (TPM) whose goals is to increase splitting machine effectiveness. Before implementing TPM, calculations an analyzation are done using Overall Equipment Effectiveness (OEE) which function is to analyze existing conditions of splitting machine effectivity. Based on the effectiveness of Splitting machine in 2017-2019 using the OEE method, it amounts to 69% in 2017, 73.68% for 2018, and 75.85% for 2019. The OEE value has not yet reached the World Class Standard value which has been set at 85%. Then do Six Big Losses analysis is carried out which causes a low OEE value. Factors that most influence the OEE value of Splitting Machine are Idling and Minor Stoppage Loss which 37% and Reduced Speed Loss which 32%. The factors then do analysis used Causal Diagram. Then 8 pillars TPM analysis was performed on company's condition. The result of analysis were given a proposal that are job desk of division maintenance, six big losses sheet, autonomous standard sheet, 5S audit checksheet, damage recording sheet, and controlling preventive maintenance.

Keyword : Overall Equipment Effectiveness, Six Big Losses, Total Productive Maintenance, Causal Diagram (Fishbone Diagram).