

ABSTRACT

PT. Rekatama Mitra Mandiri as one of the company engaged in producing metal equipment often experience problems with production targets are not achieved due to engine failure. The effects of such damage is decreased rate of production, the length of time the machine setup or defective products. As a result, companies may experience a loss company is also implementing corrective maintenance system maintenance, which make improvements when there is damage. It inhibits the production process that impact on the production capacity. One machine that plays an important role in the production process in PT. Rekatama Mitra Mandiri, which often damage is shotblasting machine.

To overcome these problems, the effectiveness of the method of measurement used machines with OEE (Overall Equipment Effectiveness). This method is one way to help companies make improvements machine. With OEE calculation will get a value which is then analyzed by examining three main factors, namely availability (availability), performance (ability) and quality (quality) to get the root of the problem and determine the action to fix it. OEE value standard world (World Class) that is equal to 85%. Therefore, the use of OEE is expected to be the basis to determine the level of effectiveness of the machine, as well as an evaluation or repair also will support the company's progress.

OEE calculation results using the machine for a month shotblasting OEE value obtained is 86.55% which includes availability 88.73%, 99.64% Performance, and Quality 97.90%. OEE value of 86.55% is below the standard that is > 85%. After analyzing by using Pareto diagrams are obtained four main causes of human, machine, material, and methods.

Keywords: Overall Equipment Effectiveness, shotblasting machine, Pareto diagrams