

ABSTRACT

The defect side hole is the defect dominant found in the nipple injection in CV. Wijaya Teknik. Of the 3 types of defects, the side blocked holes had the percentage defect highest (52.63%). The occurrence of defects is influenced by the factor method because the company has not implemented a method preventive maintenance on the machine molding so that the operator does not know the damage to components in the molding machine when the machine is operating. Therefore, it is necessary to do analysis and repair to prevent defects by using methods of maintenance.

With the problem, it is necessary to make improvements that aim to provide suggestions regarding the time interval preventive maintenance which is useful as a schedule for maintenance of machines molding at CV. Wijaya Teknik. To achieve this goal, it is necessary to measure using the method Reliability Centered Maintenance (RCM).

Results obtained from measurements using the method that is the policy RCM of preventive maintenance 2 scheduled on-condition maintenance period in which the calculation interval is half of the MTTF in order to obtain intervals maintenance of the machine molding..

Research recommend appropriate methods of measuring the results of RCM is to check periodically on the crooked cavity pins / ejector pins is once every 374 hours and for periodic checks on the mold is 384 hours.

Keywords: *Reliability Centered Maintenance, scheduled on-condition, defect, nipple injection, Preventive Maintenance*