

## **ABSTRACT**

*Checking means of transportation should be done before the trip-transport equipment, as well as on the means of mass transportation is the train. One of the main important part in the train is a generator. In a generator are important parts of the oil filter. Substitution of oil filter on a generator on the train is still done manually. During this turn the oil filter is still done by the method of approx.*

*To overcome the above problems then made a monitoring system on a generator on the train. The system is made by using microcontroller as brain to display the counter forward and as the buzzer alarm has been installed. Then the output of the microcontroller using the LCD which is an interface between humans and tools.*

*Monitoring system train generator can be used to monitor the long use of generators to turn the oil filter. The use of generators in a day is 16 hours, so as to achieve the 200 hours it takes for 13-14 days. From the results of all tests can be obtained that all parts are functioning properly, but no irregularity in testing the timeliness with time deviation is 16 seconds per hour.*

*Keywords: Microcontroller, counter forward, warning light, buzzer*