

**Aplikasi Pengingat Waktu Penggantian Oli dan Filter Udara pada Sepeda Motor Via
Notifikasi Sms Berbasis Arduino** (*Application For
Reminder Of Oil and Air Filter Changes on Motorbikes
Via Arduino-Based SMS Notifications*)
Supervisord by Moch. Irwan Nari . ST. MT.

Faisal Abdau
Study Program of Mechanical and Automotive
Departement of Engineering
Program Studi Mesin Otomotif
Jurusan Teknik

ABSTRACT

Oil and air filters are important components of a vehicle so they need to be replaced regularly to maintain good vehicle performance, This oil and air filter change is carried out according to the calculation of the distance from the vehicle but the vehicle owner often forgets or does not even do oil changes even though the distance from the vehicle has been reached, this happens because there is no reminder to change the oil and air filters. So we need a device that can remind the time for replacement, This device can be attached to a vehicle by adding a dish with pick up, speed sensor, Module GSM ON, LCD 16x2, indicator light, and the buzzer which is controlled by the Arduino Uno ATmega_328. Can display the distance on the LCD with a distance reading according to the actual distance or it can be said that this device is accurate, notifications on this device are sent to the user and the indicator light and buzzer flash when the distance for oil and air filter changes has been reached.

Key words: *Oil change, air filter replacement, Module GSM ON, speed sensor, Arduino.*