Abstract

The development of the world of transportation in Indonesia is very rapid, especially on motorcycles. There are several ignition components in the motorcycle such as CDI (Capacitor Discharge Ignition), coil (ignition coil), and spark plug (spark plug). The fuel ignition system acts as a regulator of the mixture of air and fuel processes within the cylinder at the compression step.

In this research, the results of Torque, Power. Fuel consumption, and spark spark plugs between CDI Racing Rextor and CDI Racing BRT-I MAX. Torsion and power retrieval using spontaneous throttel method. This spontaneous throttel stage begins with turning the motor vehicle engine and then the throttel is stabilized at 4000rpm after it turns throttel up to maximum rotation. The test results are performed in the dynotest to obtain the power and torque results.

The result of the research shows that CDI racing rextor obtained the highest result compared to standard CDI and CDI Racing BRT, this is because spark spark on Racing Rextor Racing CDI is more stable and faster also sparks bigger than standard CDI and CDI Racing BRT. The highest torque is 11.64 (N.m) while the highest power is 15.4 hp.
Keywords: CDI, Spark plug, Yamaha Vega R New, motor performance.