

***ANALYSIS OF VALVE ENTRY VARIATION ON ENGINE PERFORMANCE
AND FUEL CONSUMPTION IN GASOLINE IN 4 STEP YAMAHA JUPITER
MX 135 CC MACHINE IN 2008***

Student Name : Rendra Pramana Putra
NIM : 2204141050
Lecture Mentor : Akmal Indra, S.Pd., MT

ABSTRACK

Testing variations of valve gaps with several sizes is a process to find out which valve gap sizes result in better engine performance. Engine performance in this test is seen from the compression pressure that occurs in each suction valve gap and also in terms of fuel consumption. Good engine performance will produce large power with a minimum amount of consumption.

This study aims to determine the comparison of torque, power, and fuel consumption comparison on a 4-step gasoline motor that is produced from a valve gap distance of 0.08 mm, 0.09 mm, 0.10 mm, 0.11 mm, 0.12 mm .

In this study the Experiment Test is a method used to test the difference in the average of three or more data groups with the same subject, but each undergoes a different treatment or measurement, for example valve size data 0.08, 0.09, 0.10, 0.11, 0.12 mm. This test is done to get a statistical picture of the existence of a significant difference in the results of each valve size.

Keywords : Variations in Valve, Torque, Power, Fuel Consumption