

***ANALYSIS OF THE EFFECT OF PREMIUM AND PERTAMAX FUEL
MIXING IN COMPARED PERTALIT ON EMISSIONS OF WASTE GAS FOR 4-
STEAM MOTORCYCLES***

Name : Muhammad Ibnu Abdillah
Nim : 2204161113
Examiner : Ibnu Hajar. ST.,MT

ABSTRACT

Indonesia is a very potential market for the sale of motorized vehicles of various types and brands, however, the more vehicles there are, the more emission gases are produced. The purpose of this study was to obtain exhaust gas emissions from a mixture of premium fuel with prtamax and pertalit. The method used in this test is an experimental method. In the research, the treatment was in the form of varying the doses of premium and pertamax fuels in order to determine the effect of exhaust emissions and also use pure pertalit. The results showed that for 1000 rpm the lowest emission was in the premium mixture of 25% + 75% pertamax, namely 0.38% CO and 511 ppm HC and the highest emission was in the premium mixture of 75% + 25% pertamax with an average value 0.76% CO and 894 ppm HC. For rpm 3000, the lowest exhaust gas emissions are in the premium mixture of 25% + 75% pertamax, namely 1.2% CO and 270.3 ppm HC and the highest emission is in the premium mixture of 75% + 25% pertamax with an average value of CO 2.68% and HC 893.3 ppm.

Keywords: *exhaust emissions, fuel mixture, premium, Pertamina, pertalit, rpm, gas analyzer.*