

## **ABSTRACT**

*Driving a motorcycle one of the popular forms of transportation used by employees commuting to and from work either in remote or in the city. Up to the month of July motorcycle sales figures continue to rise to 4,328,642 units. Besides the increase in the number of motorcycle users, it also resulted in the number of accidents rose to 5710 cases. Accidents caused by several factors, namely the human, environmental and equipment / components. Brakes are vital components of the vehicle that serves to help reduce speed, lay off the vehicle. Brakes are not working properly can result in an accident, therefore treating the brakes and all of its components (sub-assembly brake) should be done routinely.*

*One of the sub-components in the brake assembly must be maintained and replaced on a regular basis is the brake. This research will discuss about the disc brake on the motorcycle Honda Supra X 125 with brand AHM (Astra Honda Motor). Brake wear will be tested through examination, testing coefficient of friction and adhesive strength test. From the results of these tests will be generated life brake pads and brake failure and Neimann and analyzed using Weibull distribution for the age of the brake pads.*

*Of the wear test, the friction coefficient testing and testing the strength of the glue got old brake is 11014.2 km, 27484 stamping, 6.5 months. Obtained from the calculation methods Neimann brake component life is 6.5 months. Coefficient of friction testing friction coefficient canvas of 0.422.*

**Keywords:** *Accident, disc brake, brake pad, Testing, life time of canvas*