

ABSTRACT

THE EFFECT OF TIRE CONDITION TO THE ERROR OF TAXI METER INDICATION USING SIMULATED-ROAD TEST

by:

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The research of the effect of tire condition to the error of taxi meter indication using simulated road test has been done. The aim of this research were to know the effect of tire condition to the errors of a taxi meter reading on distance and time, and the advantages and disadvantages of the effect from the consumer point of views.

Method used in this research is simulated-road test using stationary type roll tester which was calibrated using roll meters. The testing of distance and time counter was performed in five interval fare, start fare, second change fare, third change fare, fourth change fare, and fifth change fare, The effect of tire condition was observed in this research.

From the result of this research it is found that the error value at the distance test is -1.93% on the worn tire condition, the error on good tire condition is 0.16%, while the error in the time test is 0.79%. The tire condition affects the test results of the taxi meter wherein the use of worn tires, the indication of the distance is less than the standard distance which is disadvantages for consumers. On the use of new tire conditions the distance indicated is over the standard, which resulted in consumers' advantages.

Keyword: taxi meter, roll tester, tire