

Wheel Diameter and Width Influence in Variability of Brake Data Measurement at Ministry of Transport Facilities

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Abstract : The brake systems of vehicles are tested periodically by a "brake tester" at Ministry of Transport (MOT) stations. This tester measures the effectiveness of vehicle. This parameter is established by the International Committee of Vehicle Inspection (CITA). In this paper, we present an investigation of the influence of the tire size on the measurements of brake force on three MOT brake testers. We performed an analysis of the vehicle braking capacity test at MOT stations. The influence of varying wheel diameter and width on the measurement of braking at MOT stations has been analyzed. Thereby, the MOT brake tester as a verification system for a vehicle has been evaluated.

Keywords : brake tester, ministry of transport facilities, wheel diameter, efficiency

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