

MOTOR VEHICLE TYRE NOISE CAUSED BY THE INTERACTION WITH CONTACT SURFACE

UDK: 629.113.012.5:534.831

At this moment, OICA pays great attention to the assessment of the effect of the noise of pneumatics on the overall vehicle noise level. In this context, comprehensive examinations of various types of tyres have been carried out from the viewpoint of determination of the correlation between the noise of tyres and the noise of vehicles; the effect of acceleration and of torque on the noise of pneumatics on the noise of vehicles. It is obvious that a very complex problem is imminent for local manufactures of motor vehicles, and for those foreign as well, which has to be solved successively, but very quickly and efficiently with a view to reducing the noise and enabling the homologation of newly manufactured vehicles. In that context, a brief reference to the review of activities and of actual tendencies of the researches with a view to reducing the noise is given in this study.

Key words: vehicle, tyre noise, legal regulations.

BUKA PNEUMATIKA VOZILA PROUZROKOVANA U ITERAKCIJI SA KONTAKTNOM POVRŠINOM

U današnjem trenutku OICA veliku pažnju poklanja utvrđivanju uticaja buke pneumatika na opšti nivo buke vozila. U tom kontekstu u Evropi se vrše opsežna ispitivanja različitih tipova pneumatika sa stanovišta određivanja korelacije buke pneumatika i buke vozila; uticaj ubrzanja, odnosno obrtnog momenta na buku pneumatika i pručavanja uticaja buke pneumatika na buku vozila. Očigledno da domaćim proizvođačima motornih vozila, pa i inostranim, predstoji jedan veoma kompleksan problem koji treba rešavati sukcesivno ali veoma brzo i efikasno u cilju smanjenja buke, odnosno omogućavanja homologacije novoprodučenih vozila. U tom kontekstu u ovom radu je dat kraći osvrt na pregled aktivnosti i sadašnjih tendencija istraživanja u cilju smanjenja buke.

Кljučне речи: vozilo, buka od pneumatika, zakonske regulative