

Mr Đuro Borak, M.E.,
Dr Slobodan Janković, M.E.,
Mr Predrag Petrović, M.E.,
Dmitar Zrnić, Factory DMB, Rakovica, Belgrade, Yugoslavia.

DIESEL ENGINE NOISE PROPAGATION INTO THE OFF-ROAD VEHICLE CAB

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Intensity and scope of active sources of sound have a significant bearing on the noise level inside a cab or body of a motor vehicle. Active sources include: IC engine, intake and exhaust system, transmission, tires, vehicle body, air flow around the vehicle, etc.

This paper presents the results of the diesel engine noise penetration into the cab of TARA off-road vehicle, with predetermined levels of the engine sound energy levels as the active source of sound, and determined levels of actual sound energy emission produced by the engine inside the cab. In determining the level of sound energy, the method of sound energy intensity has been used.

Key words: *noise, IC engine, sound energy.*

PROSTIRANJE BUKE DIZEL MOTORA U KABINI TERENSKOG VOZILA

Intenzitet i područje aktivnih izvora zvuka imaju značajan uticaj na podnošljivost buke u kabini ili putničkom prostoru motornog vozila. U aktivne izvore spadaju: motor, usisno-izduvni sistem, transmisija, pneumatici, karoserija, tj. šasija vozila kao i vazдушna struja okoline.

U ovom radu su dati rezultati prodiranja buke dizel motora u kabinu terenskog vozila TARA kao i nivoi zvučne energije i emisije zvuka, prisutnih u kabini, a koji potiču od motora. Za određivanje nivoa zvučne energije korišćen je tzv. "metod intenziteta zvučne energije".

Ključne reči: *buka, motor SUS, zvučna energija.*