

SUMMARIES REZIMEA

Jeremija Jevtić, Radinko Gligorijević, Đuro Borak, IMR-Institute, P.Dimitrija 7, 11090, Belgrade, e- mail: imrkb@eunet.yu

¹FUEL ECONOMY OF OLDER DESIGN TRACTORS DIESEL ENGINES IN RELATION TO NEW ONES

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Abstract:

The automotive industry is striving to produce engines with improved fuel economy, both to conserve natural resources and to limit pollutants and CO₂ emissions. More power, less fuel is the ultimate goal for every vehicles manufacturer in the world.

Total consumption of all types of energies is rather high nowadays with constant tendency of increasing. Minimizing fuel consumption of vehicles has been a major objective for OEM's for many years.

Transport section is one of the highest consumers of energy obtained from fossil fuels, therefore a major task for the automotive industry, in the next few decades is to reduce environmental pollution and the immerse consumption of fossil fuel in order to reduce the global greenhouse effect and accomplish clean air conditions.

From this aspect it is investigated the fuel economy of older design tractors diesel engines in relation to newer ones. Obtained results should be the base for choose design solutions, which will improve the efficiency of older design tractors diesel engines related to national long-term interests as well as necessity to fulfill Europeans fuel consumption and emission regulations.

Keywords: fuel economy, diesel engines, tractor

EKONOMIČNOST TRAKTORSKIH DIZEL MOTORA STARIJE KONSTRUKCIJE U ODNOSU NA MOTRE NOVIJE KONSTRUKCIJE

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Rezime: Automobilska industrija teži proizvodnji što ekonomičnijih motora, radi štednje prirodnih resursa uz smanjenje emisije CO₂ i štetih polutanata. Više snage, manje goriva je cilj svih svetskih proizvođača vozila.

Ukupna potrošnja svih vidova energije je danas prilično visoka sa constantnom tendencijom rasta. Smanjenje potrošnje goriva je bio i ostao prioritetan cilj svi proizvođača vozila.

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Transportni sektor je jedan od najvećih potrošača fosilnih goriva. Otuda je glavni zadatak automobilske industrije u narednim dekadama, smanjenje emisije i potrošnje fosilnih goriva uz smanjenje emisije gasova staklene bašte.

Sa tog aspekta istraživana je ekonomičnost traktorskih dizel motora starije konstrukcije domaće proizvodnje u odnosu na motore novije konstrukcije. Dobijeni rezultati treba da budu baza za izbor konstrukcionih rešenja koja će poboljšati kako ekonomičnost tako i ekološke karakteristike domaćih motora u cilju usaglašavanja sa Evropskim propisima.

Ključne reči: Potrošnja goriva, dizel motori, traktor