

STANJE EMISIJE IZDUVNIH GASOVA TRAKTORSKIH DIZEL MOTORA

Direktiva 77/537/EEC je za sada jedini način za određivanje i praćenje emisije izduvnih gasova traktorskih dizel motora. Ona se odnosi na ograničenje nivoa dima mernom metodom pravilnika ECE N° 24 pri 80% opterećenja motora.

Zadovoljavajuće granice su ostvarivane kod većeg dela postojeće proizvodnje uz lako prilagodavanje svih motora traktorske namene. Međutim, rad na novim propisima orijentisan je na emisiju izduvnih gasova kojim se ograničavaju komponente HC, CO, Nox i čestice.

U SR Jugoslaviji ima u eksploataciji oko 500.000 traktora sa najvećom godišnjom proizvodnjom u Evropi.

Novi propis o emisiji izduvnih gasova ustvari obuhvataju sve dizel motore od 3 KW pa nadalje svrstane u nekoliko grupacija. Tu spadaju dakle, pored traktorskih motora i jednocilindrični i dvocilindrični motori koji se ugrađuju u motokultivatore i male zglobne traktore. To znači više od 90% proizvodnje dizel motora u SR Jugoslaviji.

Na osnovu prikazanosti stanja može se konstatovati da oko 80% traktora u eksploataciji zadovoljava predložene granice o emisiji izduvnih gasova. Godišnja proizvodnja zadovoljava oko 70% što je posledica povećanog učešća dizel motora sa nepovoljnom emisijom. Za jednocilindrične i dvocilindrične motore može se očekivati zadovoljenje propisa uz neophodan dodatni rad.

Ključne reči: izduvni gasovi, dizel motor.

CONDITION OF EXHAUST GAS EMISSIONS FROM TRACTOR DIESEL ENGINES

77/537/EEC Regulation represents the only way, so far, to determine and monitor exhaust gas emissions from tractor diesel engines. It relates to the limitation of smoke level by applying the measuring method, defined in ECE regulations No 24, at 80% of engine load.

It is to be noted that satisfactory limits have been realised with the majority of existing engine production for tractor application. Work on new regulations, however, is focused on exhaust gas emissions to restrict components such as HC, CO, Nox and dusts.

In SR Yugoslavia there are some 500.000 tractors units running in the field which is the largest annual production in Europe.

New exhaust gas emission regulations actually relate to all diesel engines of 3 KW and up that are classified in several groups. In addition to tractor engines they also cover one cylinder and two cylinder engines powering cultivators and small articulated tractor. This means over 90% of diesel engine production in SR Yugoslavia.

On the basis of condition shown it could be concluded that approximately 80% of tractors running in the field meet the proposed limits relating to exhaust gas emissions. Annual production meets requirements in 70% which is the result of increased use of increased use of diesel engine whose emissions are not favourable. As for one and two cylinder engines it could be expected that they

Key words: exhaust gas, diesel engine