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DETERMINATION OF THE OPTIMAL STRATEGY FOR PREVENTIVE MAINTENANCE OF HIGH PRESSURE PUMPS VEHICLES USING POLYCRITERION OPTIMIZATION

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ABSTRACT: *This work presents a possibility to find the optimum solution in the maintenance of high pressure pump systems when the criteria functions are maximal availability and minimal costs maintenance. These two criterions lead to several solutions of the maintenance of high pressure pump systems therefore it was necessary to seek for a trade off solution.*

Key words: *motor vehicle, maintenance, optimisation, reliability, availability, costs*

ODREDJIVANJE OPTIMALNE PERIODI^NOSTI PREVENTIVNOG ODR@AVANJA PUMPE VISOKOG PRITISKA VOZILA PRIMENOM METODA VIJEKRITERIJUMSKOG ODLU^IVANJA

ABSTRACT: *U radu je prikazana mogu}nost iznala`enja optimalnog re{enja strategije odr`avanja pumpe visokog pritiska motornog vozila, kada se kao kriterijumske funkcije uzimaju maksimalna gotovost i minimalni tro{kovi odr`avanja. Ova dva kriterijuma dovode do razli~itih re{enja po pitanju strategije odr`avanja analiziranog sklopa motornog vozila, tako da je bilo neophodno primeniti metod vi{ekriterijumskog odlu~ivanja.*

Klju~ne re~i: *motorno vozilo, odr`avanje, optimizacija, pouzdanost, gotovost, tro{kovi*

