

ABSTRACTS

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SIMULATION OF MANAGEMENT OF THE TECHNICAL STATE OF TRAINS FOR THE AUTOENTERPRISE ON BASIS OF QUALIMETRY MODEL

The analysis of the technical state of tractor-lorry-trailer combination and the factors is substantiated. Factors are influenced on change during vehicle operation. Developed by means of control system of efficiency of technical operation of tractor-lorry-trailer combination are allowed to improve efficiency index of technical maintenance.

Limits change of indicators of level of technical state of train is located on basis of the analysis and statistical averaging parameters of train and estimated values of the functional parameters. Simulation of management of the technical state of tractor-lorry-trailer combination is based on the qualimetry model. It defined the group performance and built the corresponding "web quality". It established the presence of reserves for further technical innovation of the systems studied in the result of calculation of indicators of quality level of tractor-lorry-trailer combination. It is proved that the simulation trucks Volvo FH12 on OOO "Zenal" LTD is allowed to get additionally a net profit in a size of 3696 thousand UAH with the simultaneous reduction of rate on 0.7%.

It increased the total annual run and the volume of transport work, the company received two elements savings in operating costs: material costs decreased due to reduced costs and maintenance and repair of trucks.

In whole, the design decision has allowed to reduce the cost of the unit of transport work on 1%.