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The receipt of information on diagnostic parameters gives the clear picture of the technical state of diesels. If to conduct systematization of diagnostic parameters, more precisely than methods of receipt of information about the technical state of diesels it is possible to get the level system which allows with a high probability to diagnose to the exploited diesels. In work 5 levels of receipt of information about the technical state of diesels with forward stage clarification are offered, which theoretical research of dependences of probability of faultless work from diagnostic parameters and their weight is conducted on the basis of. Graphic interpretation of realization of theoretical dependences of probability of faultless work of diesels is thus presented at the proper level, diagnostic parameters and their coefficients of weight from the explored time domain. The conducted experimental researches of change of diagnostic parameters depending on time showed adequacy to the theoretical hypotheses.

Il. 2. Bibliogr. 9 names.