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The analysis of factors, that had an determining influence on the change of the technical state of auto tractor diesels is executed. Application of the systems of diesels technical state monitoring needs definite actions for perfection of strategies of technical service and repair (TSR). Researches were conducted during exploitation of autotractor diesels on a technique that works in the conditions of agroenterprises. The results of application of auto tractor diesels technical state monitoring system which has got at service machines at planned-preventive (PPS) and adaptive (AS) strategy TRS are resulted. A different dynamics of capacity's loss in technique's units is exposed. The estimation was conducted after the coefficients of readiness and use testifies to the necessity of transition of maintenance of technique after the actual state on the basis of the system of monitoring. Recommendations in relation to the optimum use and maintenance of the explored park of machines at PPS and AS TSR are developed.

Tabl.1. Bibliogr. 12 names.