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Turbocharger – is main element of air supply system,

which is one of the main systems, providing working

the internal-combustion engine. The technical condition

and reliability of the functioning the air supply systems

renders the essential influence upon efficiency of

the engine usage. In the report the research methods of

the turbocharger are considered. The results of the study

of the failure causes of turbocharger are presented. Ways

of the removal this causes are given. Development and

verification of ways of technical exploitation improvement

of turbochargers of marine diesels is based on the

results of experimental researches and mathematical

models. Il. 2.