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Маtveenko V.V. The results of automotive diesel engine piston resource strength estimation taking into account

local heat-exchange in the combustion chamber / V.V.

Маtveenko, V.A. Pylyov, A.V. Matjuha // Internal combustion

engines. – 2011. – № 2. – P. 78-81.

The paper analyzed the features of the piston heatexchange

boundary conditions influence on its resource

strength. For diesel engine 4CHN12/14 piston temperature

state calculations for local symmetric and asymmetric heatexchange

boundary conditions in combustion chamber was

carried out. Resource strength forecasting of the piston using

automobile, harvester and tractor engines models of exploitation

was done. The necessity of taking into account local

heat-exchange in combustion chamber was shown. Table. 2.

Il. 2. Bibliogr. 10 names.