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The settlement analysis of non-stationary temperatures

and thermal stress arising in the piston of a highspeed

diesel engine at change a mode of his work - loadings

is resulted in this article. The problem is solved in

three-dimensional statement, in the Cartesian coordinates with the usage of MFE. Identification of settlement

model of the piston is carried out with use of its experimental

data. Il. 4. Bibliogr. 4 names.