Marchenko A.P., Pylyov V.O., Shpakovsky V.V.,

Pylyov V.V. Allocation of instantaneous heat flows and temperatures in surface layer of the warmly insulated cylinder piston of ICE // Internal combustion

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On the basis of simulation of high frequency temperature

variation in surface layer of a stuff of the cylinder

piston with a low heat-conducting coating the clarification

of recommended depth of a heat-insulating coating

is carried out, where one minimum instantaneous

temperature of a wall with a coating can accept lower

values, than highly of heat-conducting of a wall without

a coating. It is shown, that the installation of optimum

depth of a heat-insulating coating of the cylinder piston

generally should come true on the basis of a solution of a

compromise problem taking into consideration the parameters

of a working process of the motor engine. Tabl.

1. Il. 4. Bibliogr. 7 names.