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Marchenko A.P. Corundum layer influence on working surfaces of pistons on process of combustion in ICE / A.P.

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In this work the results of early probes of power increase of the diesel engines equipped with ceramic covering pistons are analysed, motor stand comparative tests with removal of display diagrams of a tractor diesel engine and rheostatic tests of diesel engines with serial and corundum layer pistons have been carried out. It is confirmed experimentally and it is a postulate that ICE efficiency increase when heatinsulating corundum layer pistons are used. The theoretical substantiation of ICE efficiency increase with corundum layer pistons is given. Table. 1. Il. 4. Bibliogr. 12 names.