UDK 621.43.016.4

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

Marchenko, V.V. Shpakovsky // Internal combustion engines.

– 2011. – № 2. – P. 24-28.

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 aut. 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.