

A method for increase of operation characteristics of conventional engines consists in that in the engine that has dynamical amplifier of compression one preliminarily reveals the long and transverse curvatures in geometry of the walls of cylinders, according to that one determines position, number of cavities and content of prophylactic repair-renewal mix, before run-in of the motor one fills the cavities and slots of the inserts with prophylactic repair-renewal mix, with measurement of characteristics of compression for each cylinder and with roll-in performance. After that once again the measurements are carried out, and if needed the content of the mix with repetitive filling of cavities with the mix is corrected, and for suppression of vibratory loads in zones of contact of piston rings with surface of the cylinder fullerenes are added to the mix.

The technical result: decrease of friction coefficient, specific consumption of fuel, outbursts of pollutants of environment, increase of dynamical characteristics of the engine, wear resistance of thermally and kinematically loaded surfaces of cylinder-piston group.