UDC 621.43: 62-66: 62-62

Belousov E.V., Belousov Т.P. Numerical study of affecting of a compression ratio on change of thermodynamic cycle of the reciprocating engine on solid fuel // Internal combustion engines. – 2008. – № 2. – P.

22-26.

Influence of a degree of compression on parameters

of a thermodynamic cycle of the piston engine with

burning a solid fuel in a layer and artificial blowing off

through a layer, is considered. As an example six various

thermodynamic cycles with a degree of compression

from 6 up to 22 are simulated. It is considered two cases

for each degree of compression, with cooling of a charge

during compression and without cooling. It is given the

analysis of the factors prevailing at various degrees of

compression and influence of these factors on thermodynamic

efficiency of working process, the maximal temperature

and cycle pressure. Tabl. 1. Il. 2. Bibliogr. 4

names.