UDC 621.43: 62-66: 62-62

Belousov E.V. The influence on working process of the average speed ship engine by water injection to the working cylinder / E.V. Belousov, M.S. Ageev, V.I. Sviridov //

Internal combustion engines. – 2010. – № 1. – P. 40-43.

In article results of modelling of working process with cooling

of air in the course of compression, by water injection

directly ahead of closing of the inlet valve are resulted. It is

shown, that such way of cooling has no many lacks peculiar

to other known methods of use of water in working process.

In particular calculations have shown, that under certain conditions,

it is possible to achieve increase of efficiency of

working process, with capacity increase. Thus there is a considerable

decrease in thermal and mechanical intensity of the

engine, and also improvement of its ecological indicators