UDC 621.436

Varbanets R.A. Modelling of working process in terms to increase an efficiency of marine diesel power

plant operation // Internal combustion engines. – 2008.

– № 2. – P. 18-22.

The questions of mathematical modelling of working

process, as one of the basic ways to increase an efficiency

of marine diesel power plant operation are con considered.

The analysis of use of a method nonlinear nparametrical

is given to optimization Powell ' 64 for

specification of values of empirical factors of mathematical

model. The urgency of a problem of increase of

efficiency of marine power plant operation growing now

is illustrated by the statistical data showing increase of

the world prices for fuel since 2007. Furthermore, ecological

requirements of convention MARPOL 73/78

concerning, in particular, emissions of NOx depended on

the working process quality, forces to efficiency increasing

of marine diesel power plant. Il. 1. Bibliogr. 10

names.