UDC 629.5.03-8

Varbanets R.A. Modeling the working process of marine engines in the D4.0H monitoring system / R.A. Varbanets // Internal combustion engines. – 2009. – №2. – Р. 35-41.

The possibilities of a design module used for monitoring and diagnosing the working process of marine DEPAS D4.0H engines have been described. The mathematical model of the working process is based on the first thermodynamics law. Using the available experimental data the mathematical model allows us to investigate the character of the working process and to define the master models in the partial load modes as well as to simulate after-effects of adjustment of fuel equip-ment and gas distribution mechanism. The main purpose of modeling the working process in the real operation mode is to specify fuel rate and to diagnose a condition of the major en-gine units. Il.5. Bibliogr. 7 names.