UDC 621.577

Radchenko N.I. Using the exhaust gases heat for cooling the supercharging air of marine low –speed diesel engines / N.I. Radchenko, A.A. Andreiev //Internal combustion engines. –2009. – №2. – P. 90-93.

The results of computation of excess power for the gas utilizing turbine of supercharging turbocompressors which exceeds that required for driving the supercharging compressor of marine low-speed diesel engines have been given. It is of-fered to use the excess heat energy of exhaust gases for heat utilizing machine, in particular, for the ejector-type supercharg-ing air cooling machine. It has been shown that the use of the heat of exhaust gases and supercharging air after turbocom-pressor for the ejector –type cooling machine provides addi-tional decrease (as compared with the water cooling) in super-charging air temperature and accordingly increases the effi-ciency factor of the low-speed diesel engines. The circuit dia-grams for the heat utilizing supercharging air cooling systems of marine low-speed diesel engines based on ejector-type cool-ing machine have been offered. Il.5. Bibliogr. 4 names.