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Korobko V.V. Numerical modeling of processes that occur in the oxygen sensor adaptor and in the ICE exhaust manifold / V.V. Korobko, S.V.Korobko. // Internal combustion engines. – 2009. – №2 – Р. 23-27.

This paper gives the results of numerical modeling of hydrodynamic flows and temperature fields in the ICE mani-fold, lambda-probe cavities and adaptor channels. The possibil-ity of improving the reliable performance of lambda –probe using special adaptors, i.e. additional elements installed in the gas exhaust ICE manifold. The adaptors reduce temperature of gases that surround a sensor and protect its surface from debris formation. The computations were performed using CFD packet FLOW VISION. The computations allowed for optimi-zation of adaptor structure to provide maximum intensive gas flow surrounding the probe. Il.6. Bibliogr. 4 names.