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Zhukov V.A. Increase the heat and hydraulic efficiency of heat-changing apparatus in system of internal combustion engine / V.A. Zhukov, E.N. Nikolenko // Internal combustion engines. – 2010. – № 1. – P. 102-105.

The article is devoted to valuation of possibility to increase heat and hydraulic efficiency of heat-changing apparatus in system of internal combustion engines by correction of cooling water's composition and properties. Investigation was conducted for oil-water cooler of diesel engine YMZ-840. Numerical simulation of process which take place in heat-changing apparatus and its analyses in form of criterial equations shows, that changing of cooling water's properties by little fellow additives provide for increase of oil-water cooler's heat efficiency and bring down hydraulic resistance of heat-changing apparatus. Table. 1. Il. 2. Bibliog. 12 names.