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**During internal engine operation the heat carriers of the closed liquid cooling systems are subjected to the thermal and mechanical impacts that lead to deterioration of their opera-tional properties. This paper is devoted to the problem of for-malizing the aging processes peculiar for the cooling liquids. The mechanism and the cooling liquid additives destruction model have been given. The regressive dependences of op** **eration properties of a cooling liquid on different factors that were obtained on the basis of laboratory and operational tests allow for the prediction of service life for the heat carrier. Ta-ble 1. Il.2. Bibliogr. 5 names.**