

# **Determining the Optimal Service Life of a Technical Device**

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**Key words and phrases:** machine; optimum service life; specific profitability; technical device.

**Abstract:** The paper considers an approach to determining an optimal service life of a technical device. The parameter of maximal specific profitability of this technical device is accepted as an optimality criterion. The example of determining an optimum service life of a machine for assembling tires has been studied.