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In this article the main directions of research and the results obtained from the use of biofuels from rapeseed oil in diesel engines are reviewed. The data about the influence of different ways to improve efficiency is given. Ways of intensification of mixture formation and combustion when pure rapeseed oil is applied are considered. These ways include: application of air to fuel additives and the use of water-fuel emulsion. The results of optical studies of the flame body are presented. And recommends that are based on the research are given. II. 1. Bibliog. 4 names.