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Kanilo P.M. The analysis of efficiency of the use of alternative fuels for internal combustion engines / P.M. Kanilo,

I.V. Parsadanov // Internal combustion engines. – 2009. – №

1. – P. 8-14.

The modern fuel-&-environment-related problems

caused by internal combustion engines and prospects of substituting

oil fuel by alternative energy carriers have been studied.

The results of research done for the passenger car engines

meeting the European driving cycle while using various fuels

have been given and the complex analysis of ecological indicators

of engines taking into account total carcinogenicity of the

discharged gas was performed. It is shown, that the most efficient

substitutes for motor oil fuel used by transport both from

standpoint of economy and ecology are considered to be natural

gas and in the near-term outlook the synthetic gas, including

the alky gas, biofuel and hydrogen. Tаblе. 4. Il. 6. Bibliogr. 13

names.