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Kulmanakov S.P. Influence of enhanceable pressure of injection on pre-flaming processes and indicator indexes of engine of 1ChN 13/14 with «Common Rail» fuel delivery

systems / S.P. Kulmanakov, S.V. Yakovlev // Internal combustion

engines. – 2011. – № 2. – P. 34-36.

In given article materials of researches of working

process of the diesel engine with volume-film mix formation

with high pressure fuel systems «COMMON RAIL» are

considered, the research method is resulted. As a result of

tests it is revealed that increase of pressure fuel injection

leads to improvement of power indicators of the engine on all

range of change of pressure, in the fulfilled gases decrease

the maintenance of firm particles and a carbon oxide. the

value of injection pressure which leads to an increase in mechanical

strength of piston group parts and an increase in

concentration in the exhaust gases of nitrogen oxides was

found. Il. 3. Bibliogr. 4 names.