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Grуtsyuk A.V., Kutsenko A.S., Gritsyuk О.А. Mathematical analysis of competitiveness of domestic smalldisplacement automobile diesel engines of 4DTNA series at a stage of their designing // Internal combustion engines. –

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Experience of using diesel engines in the world motor

car construction is analyzed with the help of mathematical

methods of a multivariate statistical analysis. It is shown, that

alongside with definiteness of the lay-out diagram and the

choice of the basic complete set of the modern diesel engine, to

the rectilinear trend well submit such its constructively - adjusting

parameters, as: displacement volume, compression

ratio, liter and nominal power, average speed of the cylinder

piston, velocity coefficient and accommodation coefficient.

Parameters of domestic small-displacement automobile diesel

engines 4DTNA, 4DTNA1 and 4DTNA2 in comparison with

the data of mathematical forecasting are considered and perspectives

of their perfecting are determined. Table 5. Il. 2.

Bibliogr. 5 names.