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Goncharenko A.V. Fuel oil atomization characteristics smoothed by a logarithm normal distribution for marine diesel engines / A.V. Goncharenko // Internal combustion

engines. – 2010. – № 2. – P. 34-40.

Analytical review experimental researches on fuel oil

and coal-water slurry atomization characteristics is resulted.

Attention is paid to the representation of the characteristics

and smoothing them with the help of a logarithm normal

distribution. A specified example of the assumed experimental

data proceeding as the statistical series is performed. The

criterion of chi-square is used for testing a hypothesis of the

logarithm normal theoretical distribution. By the Pearson

criterion on the level of 10.24 it is tested the hypothesis and it

fits the given observations. The probability at 15 degrees of

freedom equals more than 0.8 which means that the tested

hypothesis does not contradict to the assumed experimental

data. Accordingly to the given statistical data necessary calculations

are conducted. Corresponding diagrams has plotted.

Tabl. 3. Il. 3. Bibliogr. 9 names.