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.