UDC 621.436

Svistula A.E. Impact produced on the indicated efficiency by leakages occurring in the precision conjugations of the diesel fuel equipment / A.E. Svistula, D.D. Matievsky //

Internal combustion engines. – 2009. – № 1. – P. 106-109.

The method of evaluating the impact produced by fuel

leakages occurring in precision conjugations of a plunger pair

of the fuel pump and injector on indicated efficiency and lost

heat factors has been offered. The influence produced by gaps

in precision conjugations as well as by geometrical dimensions

of components and engine operating conditions on fuel leakages

has been demonstrated. The quantitative and qualitative

interrelation of a leakage value in the precision conjugations

with the fuel injection parameters, diesel engine operation and

cycle heat utilization efficiency has been established. The

causes accounting for the decrease in indicated efficiency due

to fuel leakages in precision conjugations have been analyzed.

Il. 5. Bibliogr. 5 names.