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Marchenko A.P. Evaluating the efficiency of different modes of internal control of a turbine in motor-&-tractor diesel turbocharger/ A.P. Marchenko, V.A. Petrosanz, A.A.

Prokhorenko, D.E. Samoilenko, D.V. Meshkov // Internal

combustion engines. – 2009. – № 1. – P. 3-7.

This paper gives comparative evaluation of two modes

of turbo-supercharging control, in particular, the traditional

nozzle one and the new one that envisages variation of the

open flow area in the starting section of the vaneless turbine

distributor (VTD). The comparison was made taking into consideration

two parameters, in particular, proceeding from

maximally attainable control depth and slope of curve, describing

the turbine supercharging control algorithm. Proceeding

from the inclination of line, describing the control algorithm

it has been shown that the jet control has insignificant

advantage in comparison with VTD control. Tаblе. 2. Il. 2.

Bibliog. 6 names.