UDC 621.436:621.43.016.7

Krushedolskiy A.G.Updating the diesel characteristics of the high-powered engine used by the main-line diesel locomotive

/ A.G. Krushedolskiy, E.V. Grishina // Internal combustion

engines. – 2009. – № 1. – P. 103-106.

The research results showed that the domestic diesel engine

of 4D80 (12ChN26/27) type allows for reaching the required

power ranges while driving the diesel locomotive of

2ТE116 type. As for the fuel consumption the efficiency of

4D80 diesel engine is by 5 % higher in comparison with that of

1D80 diesel engine and by 19 % higher in comparison with

5D49 diesel engines. The use of the corrected diesel characteristic

at which the maximum temperature of discharge gases

(528оС) is reached only in the mode of momentary rated power

allows us to guarantee a reliable work of 4D80 diesel engine as

a thermal power plant used by diesel locomotive of 2ТE116 type. Il. 2. Bibliogr. 4 names.