UDC 629.113

Podznoev G.P, Abdulgazis U.A. Thermodynamic peculiarities of H-Diesel regenerative cycle with the usage of energy carriers based on aluminum hydride //

Internal combustion engines. – 2008. – № 2. – P. 13-17.

The problem of alternative energy carriers for

transport is becoming actual. One of the most prospective

directions in solving this problem may become the

usage of metalhydride based on aluminum. The influence

of the level of compressibility, the amount additional

water in hydrolyze AlH3 and the level of heat

regeneration on the change of basic parameters H-Diesel

thermodynamic cycle is considered in the article. It is

ascertained that the increase of additional amount of water

and the level regeneration heat grow by far the thermic

efficiency of H-Diesel cycle and the quantity of

completed work. Tаbl. 2. Il. 4. Bibliogr. 5 names.