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PERFORMANCE EVALUATION OF A BIODIESEL FUELLED TRANSPORTATION DIESEL ENGINE

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Abstract

As is generally known, over the past few years a number of research activities have been developed relating to three major dangers that threaten human kind: 1) the increasingly alarming pollution of air water and soil; 2) the earth's global heating, which causes meteorological phenomena with catastrophic implications on live on the whole planet; 3) the imminent depletion of the known reserves of fossil fuels, which conduces to the continual, ever faster rise in their price, with devastating implications on the main branches of world economy. Road transportation is in fact, one of the principal responsible factors that rapidly aggravate the above-mentioned dangers. The setting-up (and the utilization) is compelling of a number of alternative fuels, based on raw materials to be found as renewable resources. This paper presents a bibliographic study about the properties of biodiesel and also the performances of the engines which use biodiesel in comparison with engines which use diesel fuel.

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