AN EVALUATION CRITERION FOR TRACTIVE AND ECONOMIC PERFORMANCE IN THE ENGINE -TRANSMISSION SYSTEM OF THE FARMING TRACTOR

R. IONESCU¹ S. NĂSTĂSOIU¹

Abstract: The paper presents an objective evaluation criterion of the tractive qualities and the economic performance for different enginetransmission systems, which are used in wheeled tractors. For the specific determination, the drawn drawbar power curves to the different steps of the tractor transmission and also the drawn envelope curve of those powers are required. Based on the calculus of area between the envelope curve and the curves for drawbar powers, we introduce the concept named index of the potential drawbar power use in a range of drawbar loads, which corresponds to a range of tractor speeds. By means of this index one can evaluate the degree of the potential drawbar power use.

Key words: tractor, engine-transmission systems.

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¹ Automotive and Engines Dept., *Transilvania* University of Braşov.