RESEARCHES ON WORK POSSIBILITIES OF THE SUSPENSION MECHANISM AT ROMANIAN TRACTORS

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SUMMARY

The paper presents the work possibilities in exploitation of the suspension mechanism of classic type with coupling machines in 3 points. The researches were related to the following aspects: the heights of coupling points of tyrants at Romanian tractor U 650, maxim lifting height of hydraulic lifter and also researches on the weight of agricultural machines coupled at tractor and their influence on the hydraulic mechanism at tractors. The Romanian tractor U 650 have a suspension mechanism of classic type with coupling in three points.

Over the suspension mechanism is transmitted a load bigger than the machine weight, that is why this is never considered equal with the maximum lifting load of the mechanism. In order to protect the hydraulic mechanism, the agricultural machines weight are limited to 50-80 % from the maximum lifting load.

The paper also emphasizes the fact that, in order to obtain the proper results in exploiting tractors equipped with hydraulic mechanism with automatic adjustment there must be obeyed some rules. There were researches made concerning the variation of the distance between the ends of the spring depending on the efforts from the central tyrant and its mounting position and, on the other hand, researches concerning the variation of the force from the central tyrant depending on the traction resistance. These variation of different parameters were presented under the form of charts.

BIBLIOGRAPHY