

IV. CONCLUSION AND SUMMARY

Based on the data of 117 analyzed tractors the displacement (digressively) increases with the engine power. Unloaded mass and engine power show a decent correlation. For every single kW of power the weight increases by 45 kg, statistically. The wheelbase was assumed as a measure of tractor-dimension. The engine power increases by the 3.44th degree, while the tractor mass increases with a degree of 3.23. As the tire diameter increases only linear with the wheelbase, higher pressure and higher shear stresses emerge at the contact surface. Therefore, bigger tires are recommended for large tractors – even as standard equipment.

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