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Res. Agr. Eng.

T. POLONEC, I. JANOŠKO

Improving

performance parameters of combustion engine for racing purposes

Res. Agr. Eng., 60 (2014): 83-91

Mechanical parts of stock engine have a performance reserve which could be utilized when the engine is used under the race conditions. Especially normal turbocharged engines have their performance parameters designed to drive in traffic, where a good flexibility, reliability, fuel consumption and a long service life is required. It is possible to utilize the whole power of the engine, when changing or modifying some of its external parts and achieve better performance parameters without modifying or changing internal engine components. Performed changes must be realized thoughtfully and on the admittable level, so the engine and other drive train components would not be damaged. In our study we design several changes of external parts of engine which have a significant impact on the

improvement of engine performance parameters. Their contribution has been verified in practice by an engine dynamometer.

Keywords:

engine; performance parameters; turbocharger; roller dynamometer

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