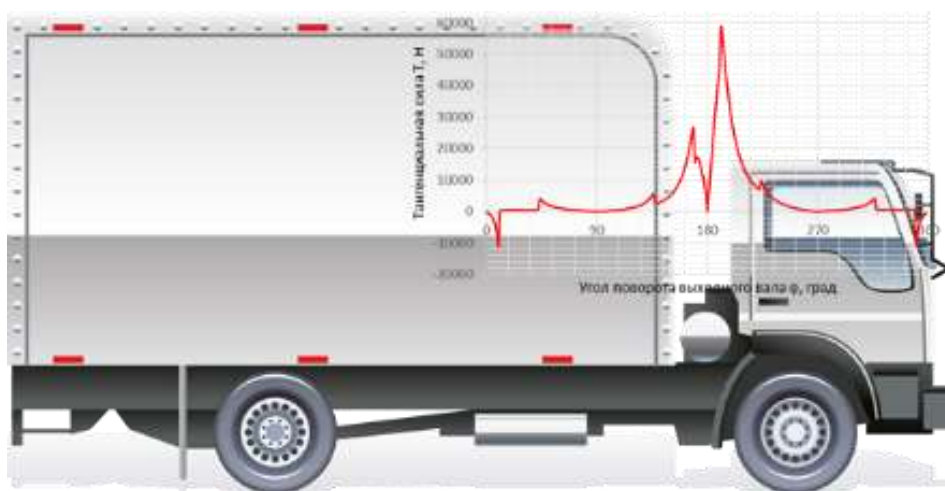


17.04.19

Preliminary kinematic, dynamic and load calculations performed by Inter Motor Group LLC, determined the main parameters of a promising four-cylinder gas (natural gas) ICE of the New Generation for a truck with a capacity of 400 hp.



The calculation of the parameters of the ICE of the New Generation is associated with an assessment of the effectiveness of its use in the conditions of operation of the main tractor.

The purpose of the calculations is a preliminary assessment of the specific mass, overall, traction and fuel and economic indicators of the ICE of the New Generation installed on the main tractor.

The calculation results will evaluate its advantages in terms of load characteristics and fuel efficiency and taking into account the restrictions imposed by traffic rules and road operating conditions.

ICE for a truck	ICE New Generation	ICE Scania OC13 10
Engine displacement, l	6.5	12.7
Rated power, h.p.	415	410
at a frequency of rotation, rpm	1400	1900
Maksim. torque, N•m	4050	2000
at a frequency of rotation, rpm	650	1300
Fuel consumption, l/100 km*	25.1	39.0

* for the main tractor SCANIA P400 4X2