

Explanations concerning the data file of main power take-off test

A file containing the data recorded during the main power take-off test is now available on OECD website for each test for which a summary of tractor performance test exists¹. This file is of Microsoft™ Excel™ format, it is similar to the one which has been used to plot the curves of the summary of tractor performance test and contains the data provided by the testing station which has performed the OECD test. It may be used to plot curves, to compare different types of tractors or to carry out schemes.

The use made of this file and of its contents does not bind the responsibility of OECD, testing station, nor Cemagref acting as Co-ordinating Centre for the implementation of the OECD Standard Codes for the Official Testing of Agricultural and Forestry Tractors and in charge of editing the data for the OECD website.

The data are given in a table of 8 columns :

- column number 1 includes the titles of rows corresponding to specific points of the test;
- column number 2 includes power in kilowatts;
- column number 3 includes engine speed in revolutions per minute;
- column number 4 includes power take-off speed in revolutions per minute;
- column number 5 includes equivalent crankshaft torque in meter-newtons;
- column number 6 includes hourly fuel consumption in litres per hour;
- column number 7 includes specific fuel consumption in gram per kilowatt-hour
- column number 8 includes information about test : make and model of the tractor on the second row, OECD approval number on the fourth row.

Up to row indicated “F. Unloaded” the points correspond to the test performed with the governor control set for maximum power, they are placed in the ascending order of engine speed. Following points are marked : point corresponding to maximum torque, point corresponding to maximum power, point corresponding to rated engine speed (A), point corresponding to a torque of 85 percent of torque at rated engine speed (B), point corresponding to a torque of 75 percent of 85 percent of torque at rated engine speed (C), point corresponding to a torque of 50 percent of 85 percent of torque at rated engine speed (D), point corresponding to a torque of 25 percent of 85 percent of torque at rated engine speed (E), point corresponding to unloaded speed of engine (F).

From and after the row indicated “G. Standard PTO speed”, points correspond to the test performed at varying load with the governor control set for maximum power at standard PTO speed. Following points are marked : point corresponding to maximum power at standard PTO speed (G), point corresponding to a torque of 85 percent of torque at standard PTO speed (H), point corresponding to a torque of 75 percent of 85 percent of torque at standard PTO speed (I), point corresponding to a torque of 50 percent of 85 percent of torque at standard PTO speed (J), point corresponding to a torque of 25 percent of torque at standard PTO speed (K), point corresponding to unloaded speed of engine with governor control set for maximum power at standard PTO speed (L).

¹ The file is available for each new approved test. The OECD website will be progressively completed with elder approved tests.