



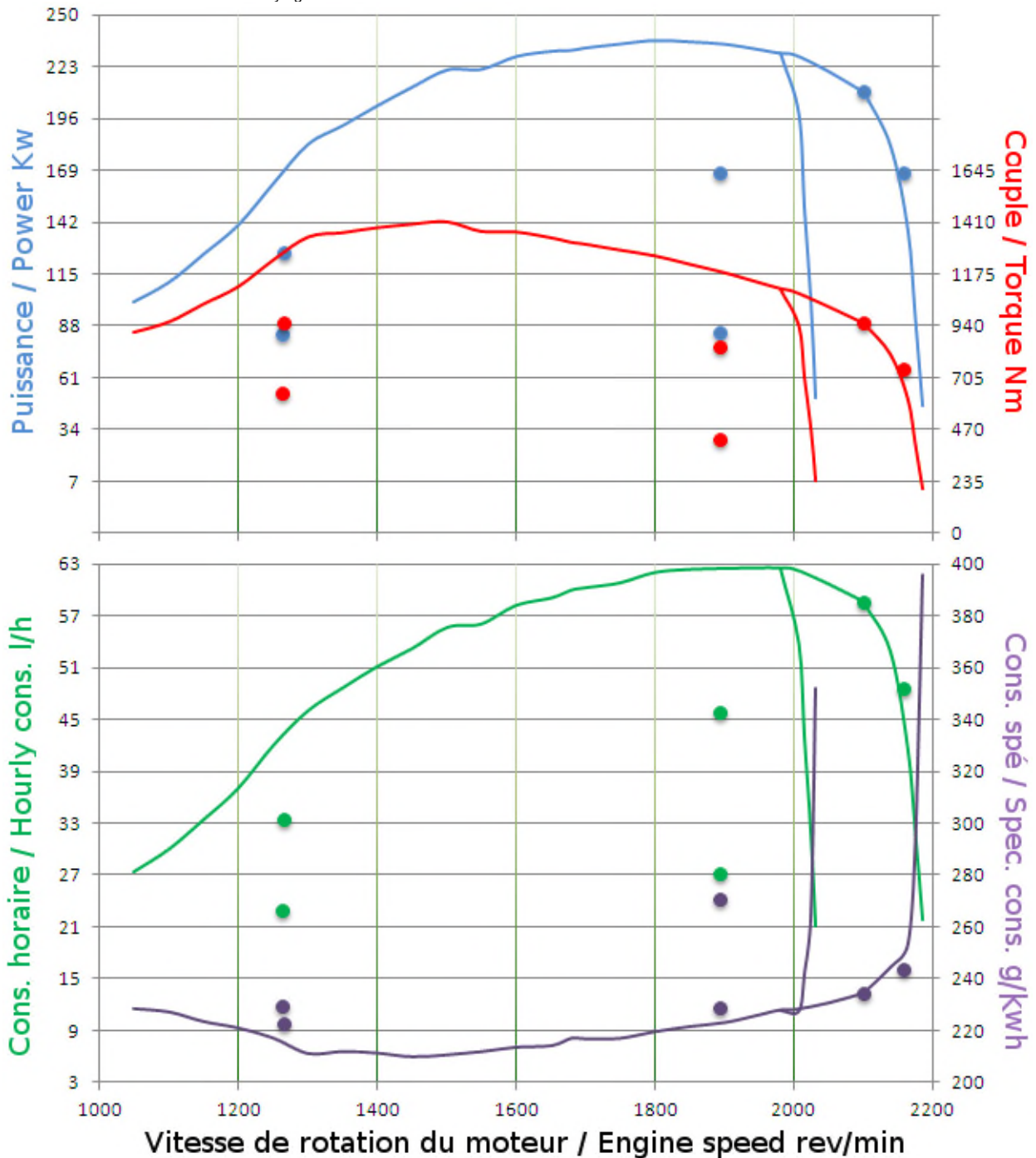
OECD approval number
OECD approval date
Make
Model
Type

Manufacturer:
Testing station:

2/2 783
19/09/2013
Challenger
MT755D
Rubber Tracklaying
 Full PowerShift - 40 km/h
 AGCO Corporation
 Nebraska Tractor Test Laboratory
 Lincoln, Nebraska U.S.A.

Challenger MT755D
 Rubber Tracklaying

OCDE/OECD 2/2 783



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	AGCO Power	84AWI777
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	8419 cm ³	Liquid
<i>Gear box</i>		Full PowerShift
<i>Number of forward and reverse speeds</i>		4
<i>Speed at rated engine speed</i>	16 from 2,67	to 39,65 km/h
<u>Standard Power take-off speed</u>	540 min ⁻¹	1000 min ⁻¹
<i>Power take-off speed at rated engine speed</i>		1061 min ⁻¹
<i>Diameter of the shaft</i>	Not	44,45 mm
<i>Number of splines</i>	Applicable	20

Power take-off Test

One hour test at maximum power

<i>Power, Engine and Power take-off speed</i>	236,77 kW	1800 min ⁻¹	909 min ⁻¹
<i>Hourly and specific consumption</i>		61,94 l/h	220 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	209,85 kW	2101 min ⁻¹	1061 min ⁻¹
<i>Hourly and specific consumption</i>		58,58 l/h	234 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	230,09 kW	1980 min ⁻¹	999 min ⁻¹
<i>Hourly and specific consumption</i>		62,47 l/h	228 g/kWh

Torque rise

<u>Maximum torque, Engine speed corresponding</u>		1408,6 Nm	1501 min ⁻¹
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Drawbar Test

Front tyres, Rear tyres

Test with tractor unballasted ballasted

Total Mass 14222 kg 16254 kg

Maximum drawbar pull 137,93 kN 159,04 kN

at speed of 3,76 km/h 3,43 km/h

Maximum power 211,36 kW 212,76 kW

at speed of 9,80 km/h 9,88 km/h

Hydraulic Performance and Power Lift Test

Hydraulic system

Closed centre

At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair) 149,8 l/min 15,95 MPa 39,8 kW

Flow rate, Pressure, Power (couplers: 2 pairs or +) 161,7 l/min 19,76 MPa 53,3 kW

Maximum lifting force

at the hitch points, at frame 81,7 kN 76,8 kN