

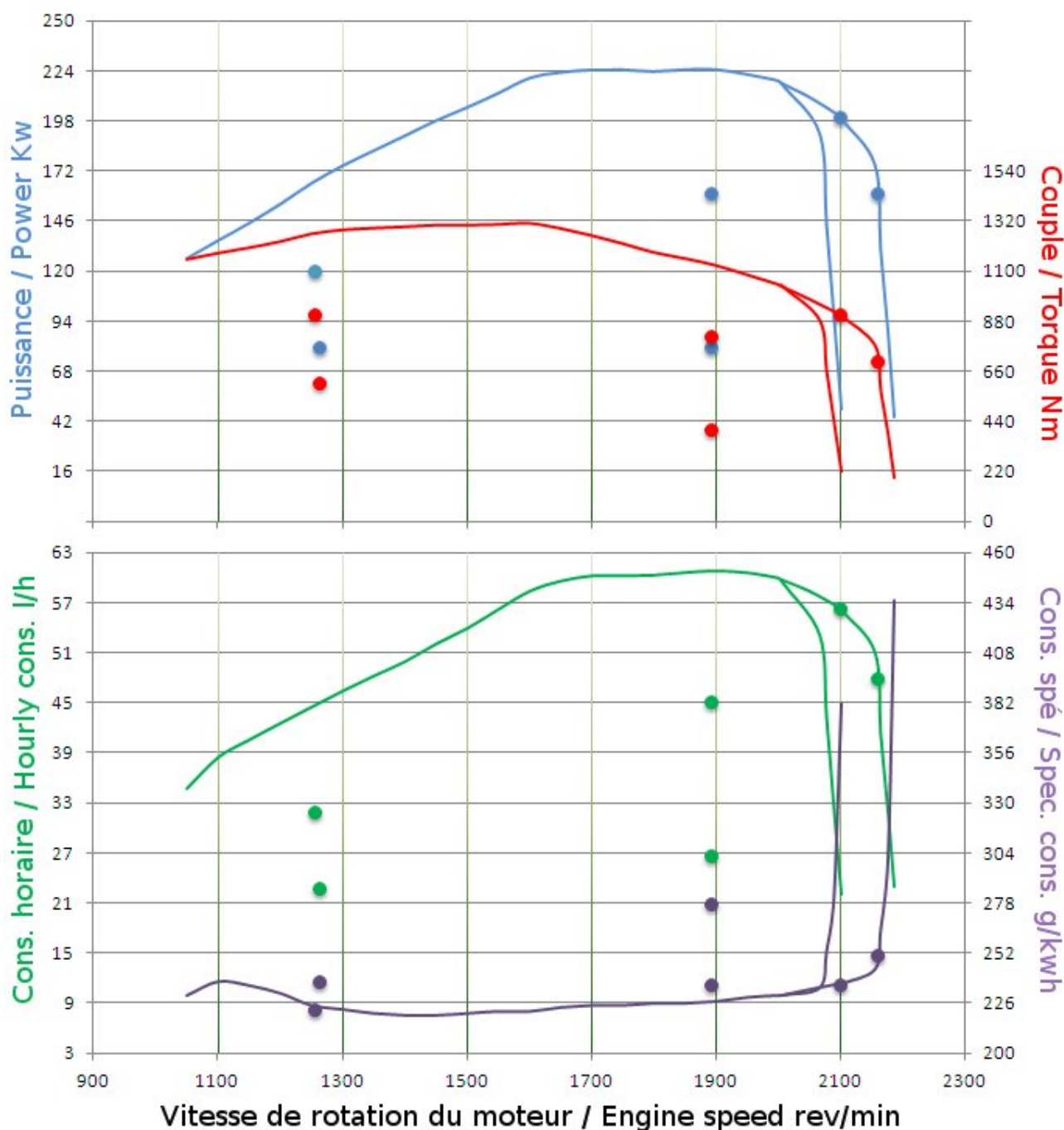
OECD approval number
OECD approval date
Make
Model
Type

Manufacturer:
Testing station:

2/2 677
16/02/2012
John Deere
8310RT
Rubber Tracked
Full Powershift - 40 km/h
John Deere Tractor Works
Nebraska Tractor Test Laboratory
Lincoln, Nebraska U.S.A.

John Deere 8310RT
Rubber Tracked

OCDE/OECD 2/2 677



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	6090RW414
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	8984 cm ³	Liquid
<i>Gear box</i>		Full Powershift
<i>Number of forward and reverse speeds</i>	16	4
<i>Speed at rated engine speed</i>	from 1,82	to 37,76 km/h
<i>Standard Power take-off speed</i>	540 min ⁻¹	1000 min ⁻¹
<i>Power take-off speed at rated engine speed</i>		1048 min ⁻¹
<i>Diameter of the shaft</i>	Not	45 mm
<i>Number of splines</i>	Applicable	20

Power take-off TestOne hour test at maximum power

<i>Power, Engine and Power take-off speed</i>	223,30 kW	1799 min ⁻¹	898 min ⁻¹
<i>Hourly and specific consumption</i>		60,16 l/h	226 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	200,39 kW	2099 min ⁻¹	1049 min ⁻¹
<i>Hourly and specific consumption</i>		56,35 l/h	236 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	217,51 kW	2004 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		59,73 l/h	230 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	1312 Nm		1601 min ⁻¹
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Drawbar Test

<i>Front tyres, Rear tyres</i>	Not	Applicable
<i>Test with tractor</i>	unballasted	ballasted
<i>Total Mass</i>	15833 kg	17352 kg
<i>Maximum drawbar pull</i>	155,67 kN	169,90 kN
<i>at speed of</i>	2,87 km/h	2,88 km/h
<i>Maximum power</i>	191,95 kW	193,98 kW
<i>at speed of</i>	8,30 km/h	8,35 km/h

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>			Closed centre
<i>At maximum hydraulic power</i>			
<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	141,5 l/min	15,78 MPa	37,2 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	184,0 l/min	18,28 MPa	56,1 kW
<i>Maximum lifting force</i>			
<i>at the hitch points, at frame</i>		77,3 kN	77,6 kN