



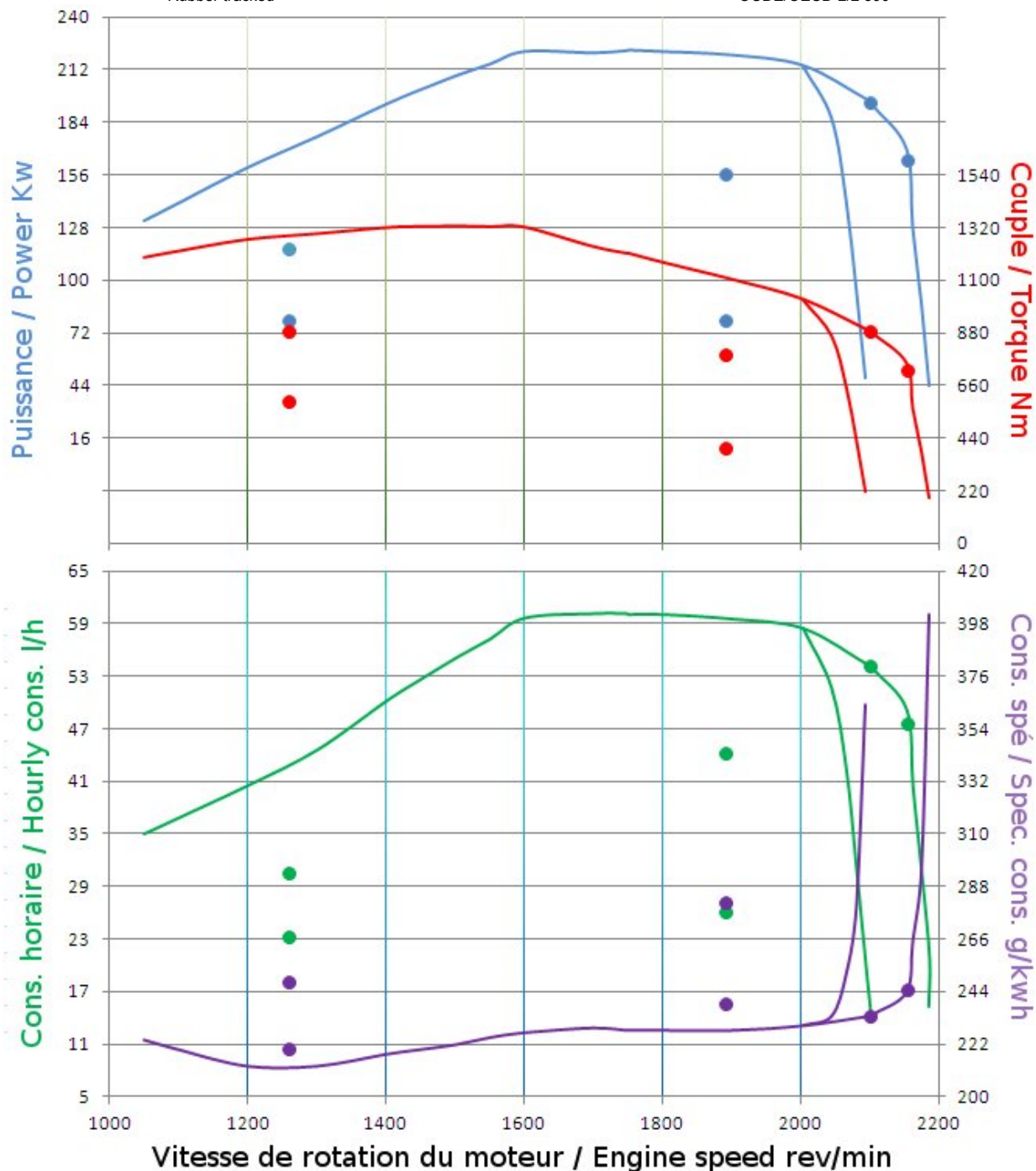
OECD approval number
OECD approval date
Make
Model
Type

Manufacturer:
Testing station:

2/2 590
11/02/2011
John Deere
8320RT
Rubber Tracked
Full powershift - 40 km/h
John Deere Tractor Works
Nebraska Tractor Test Laboratory
Lincoln, Nebraska U.S.A.

John Deere 8320RT
Rubber tracked

OCDE/OECD 2/2 590



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	6090HRW48
<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>	221,79 kW	1749 min ⁻¹	873 min ⁻¹
<i>Hourly and specific consumption</i>		60,16 l/h	228 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	194,88 kW	2100 min ⁻¹	1048 min ⁻¹
<i>Hourly and specific consumption</i>		54,19 l/h	234 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	213,78 kW	2004 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		58,54 l/h	230 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	1325 Nm		1501 min ⁻¹
---	---------	--	------------------------

Drawbar Test*Front tyres, Rear tyres*

<i>Test with tractor</i>	unballasted	ballasted
--------------------------	-------------	-----------

Total Mass

	15372 kg	
--	----------	--

Maximum drawbar pull

	147,65 kN	
--	-----------	--

at speed of

	3,73 km/h	Not
--	-----------	-----

Maximum power

	193,67 kW	Applicable
--	-----------	------------

at speed of

	8,09 km/h	
--	-----------	--

Hydraulic Performance and Power Lift Test*Hydraulic system*

		Closed centre
--	--	---------------

At maximum hydraulic power

<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	156,1 l/min	14,01 MPa	36,4 kW
--	-------------	-----------	---------

<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	245,0 l/min	16,75 MPa	68,4 kW
--	-------------	-----------	---------

Maximum lifting force

<i>at the hitch points, at frame</i>	77,3 kN	77,6 kN
--------------------------------------	---------	---------