

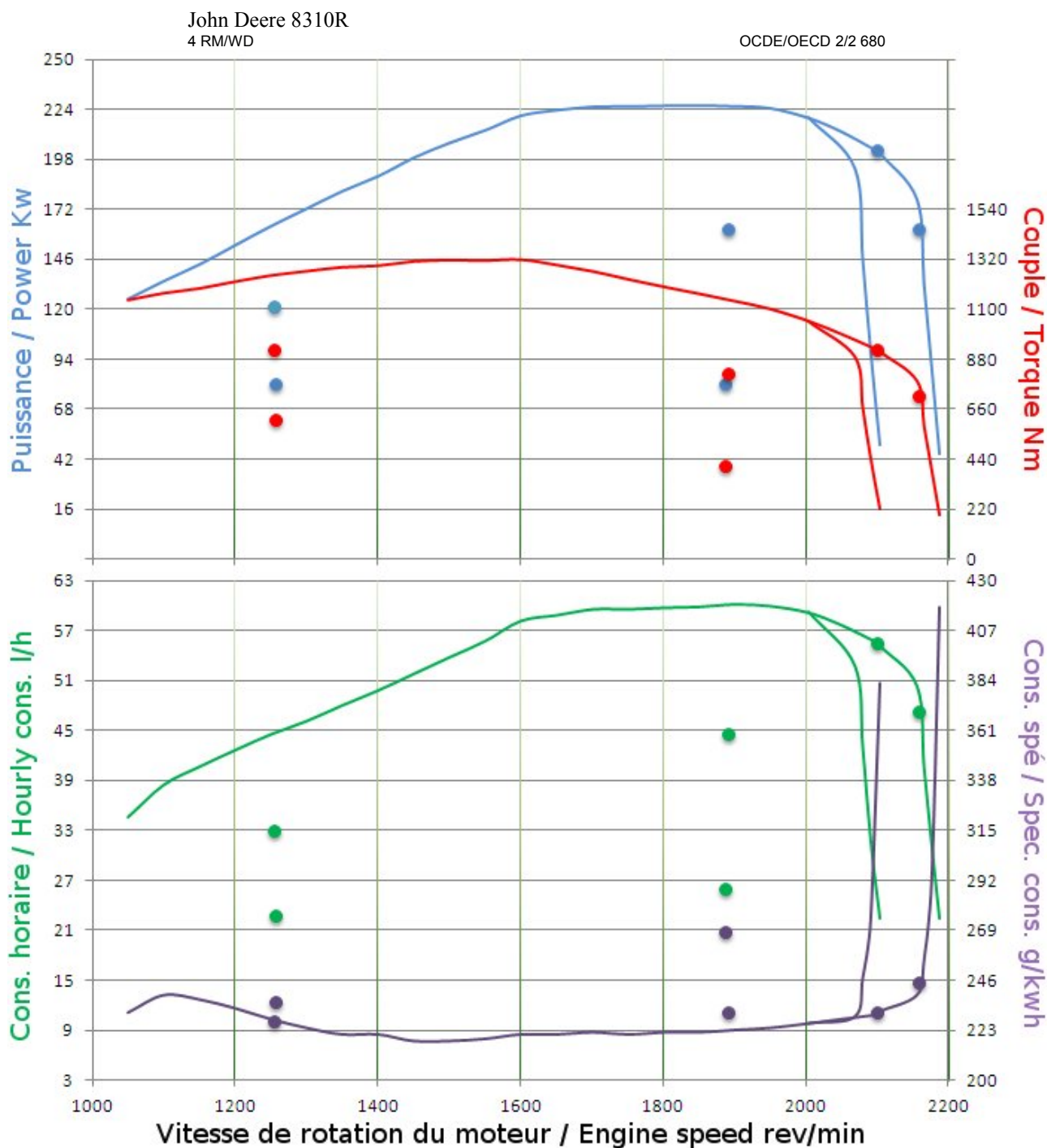


OECD approval number
OECD approval date
Make
Model
Type

2/2 680
20/02/2012
John Deere
8310R
4WD

Manufacturer:
Testing station:

Full Power Shift - 40 km/h
John Deere Tractor Works
Nebraska Tractor Test Laboratory
Lincoln, Nebraska U.S.A.



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 Power Shift
<i>Number of forward and reverse speeds</i>	16	4
<i>Speed at rated engine speed</i>	from 1,88	to 39,13 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>	225,92 kW	1900 min ⁻¹	948 min ⁻¹
<i>Hourly and specific consumption</i>		60,15 l/h	223 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	202,55 kW	2099 min ⁻¹	1048 min ⁻¹
<i>Hourly and specific consumption</i>		55,64 l/h	231 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	219,83 kW	2003 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		59,19 l/h	226 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	1319 Nm	1600 min ⁻¹	43,2 %
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Drawbar Test

<i>Front tyres, Rear tyres</i>	420/85R34	480/80R50
<i>Test with tractor</i>	unballasted	ballasted
<i>Total Mass</i>	12177 kg	
<i>Maximum drawbar pull</i>	110,61 kN	
<i>at speed of</i>	4,83 km/h	Not
<i>Maximum power</i>	198,77 kW	Applicable
<i>at speed of</i>	9,24 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>	140,7 l/min	15,30 MPa	35,9 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	242,1 l/min	16,79 MPa	67,8 kW
<i>Maximum lifting force</i>			
<i>at the hitch points, at frame</i>		87,1 kN	84,4 kN