



OECD approval number

2/1 932

Restricted Code

OECD approval date

02/11/00

Make

John Deere

Model

8310

Type

4 WD

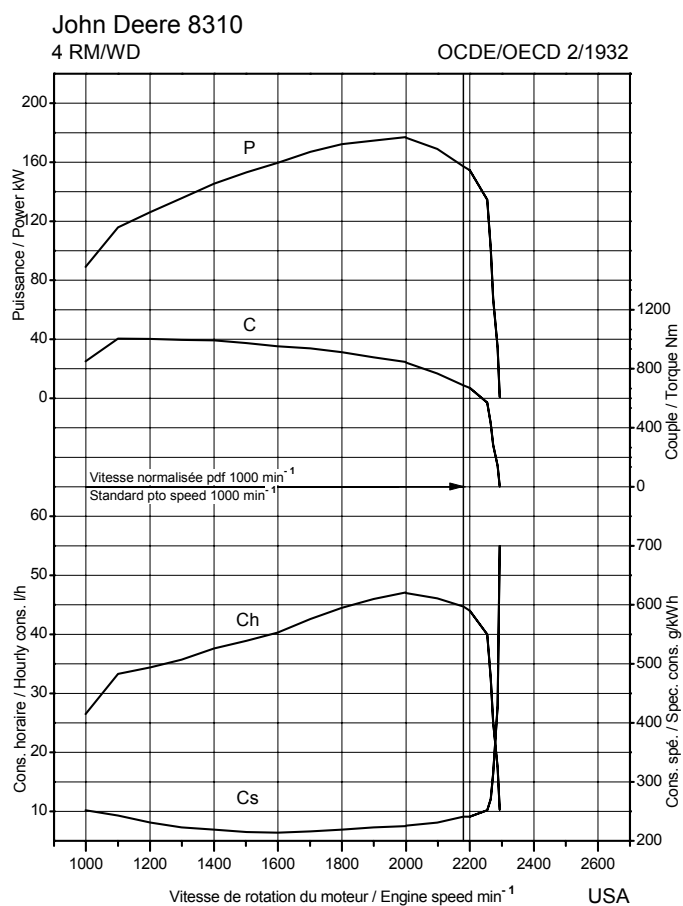
Powershift - MFWD - 40 km/h

Manufacturer

John Deere Waterloo Works

Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	6081HRW15
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	8134 cm ³	Liquid
<i>Gear box</i>		Mechanical powershift
<i>Number of forward and reverse speeds</i>	16	4
<i>Speed at rated engine speed</i>	from 2.18	to 37.08 km/h
<u>Standard Power take-off speed</u>	<u>540 min⁻¹</u>	<u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>		1009 min ⁻¹
<i>Diameter of the shaft</i>		44.5 mm
<i>Number of splines</i>		20

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	176.5 kW	2000 min ⁻¹	917 min ⁻¹
<i>Hourly and specific consumption</i>		47.04 l/h	226 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	154.6 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		44.01 l/h	241 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	154.6 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		44.01 l/h	241 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	1005.0 Nm	1100 min ⁻¹	49.8 %
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Drawbar Test

<i>Front tyres, Rear tyres</i>	480/70 - 30	620/70 - 42
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	9010 kg	
<i>Maximum drawbar pull</i>	82,3 kN	Not
<i>at speed of</i>	4.87 km/h	required
<i>Maximum power</i>	151.8 kW	in
<i>at speed of</i>	9.96 km/h	Code 2

Power Lift and Hydraulic Performance Test

<i>Hydraulic system</i>		Closed centre
<i>Maximum lifting force at hitch points, at frame</i>	60.1 kN	59.3 kN
<u>At maximum hydraulic power</u>		
<i>Flow rate, Pressure, Power</i>	125.7 l/min	17.6 MPa 36.8 kW