



OECD approval number

1 713

Restricted Code

OECD approval date

02/12/1997

Make

John Deere

Model

7810

Type

4 WD

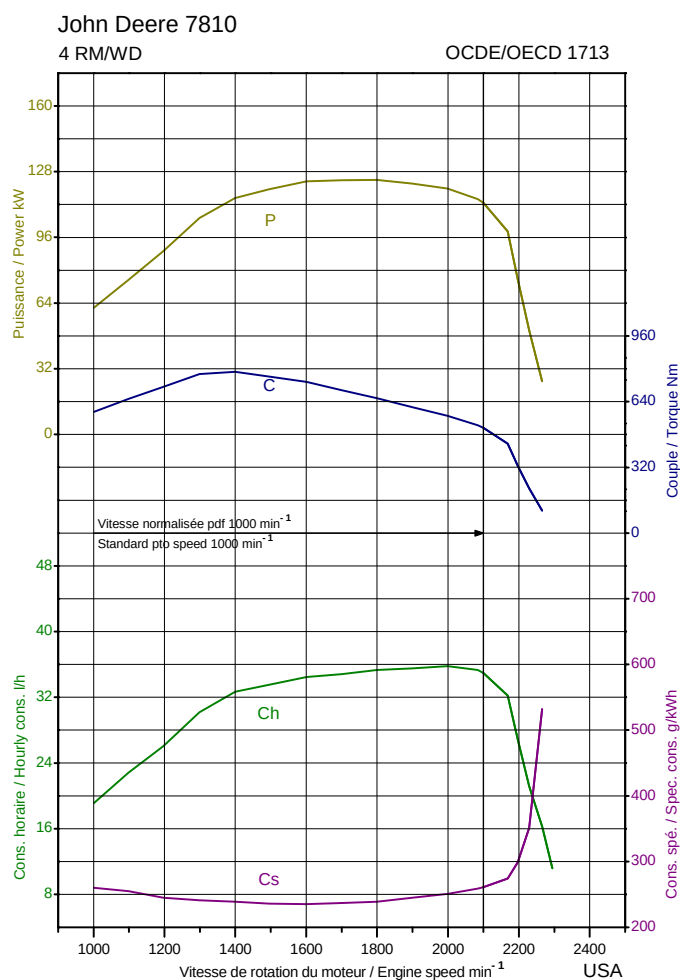
MFWD - PowerQuad - 30 km/h

Manufacturer

John Deere Tractor Works

Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	6081TRW02
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	8132 cm ³	Liquid
<i>Gear box</i>		Mechanical powershift
<i>Number of forward and reverse speeds</i>	16	16
<i>Speed at rated engine speed</i>	from 2.41	to 29.80 km/h
<i>Standard Power take-off speed</i>	<u>540 min⁻¹</u>	<u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>	547 min ⁻¹	1007 min ⁻¹
<i>Diameter of the shaft</i>	35 mm	35 mm
<i>Number of splines</i>	6	21

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	123.9 kW	1700 min ⁻¹	815 min ⁻¹
<i>Hourly and specific consumption</i>		34.86 l/h	237 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	112.8 kW	2100 min ⁻¹	1007 min ⁻¹
<i>Hourly and specific consumption</i>		35.00 l/h	261 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	112.8 kW	2100 min ⁻¹	1007 min ⁻¹
<i>Hourly and specific consumption</i>		35.00 l/h	261 g/kWh

Torque rise

		53.0 %
<u>Maximum torque, Engine speed corresponding</u>	785.0 Nm	1400 min ⁻¹

Drawbar Test

<i>Front tyres, Rear tyres</i>	14.9 R 30	18.4 R 42
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	6901 kg	
<i>Maximum drawbar pull</i>	68.5 kN	Not
<i>at speed of</i>	4.74 km/h	required
<i>Maximum power</i>	110.8 kW	in
<i>at speed of</i>	7.60 km/h	Code 2

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>		Opened centre
<u>At maximum hydraulic power</u>		
<i>Flow rate, Pressure, Power</i>	99.2 l/min	16.9 MPa 27.9 kW
<u>Maximum lifting force</u>		
<i>at hitch points, at frame</i>	49.4 kN	45.2 kN

