



OECD approval number

2/1 960

Restricted Code

OECD approval date

19/06/2001

Make

John Deere

Model

7710

Type

4 WD

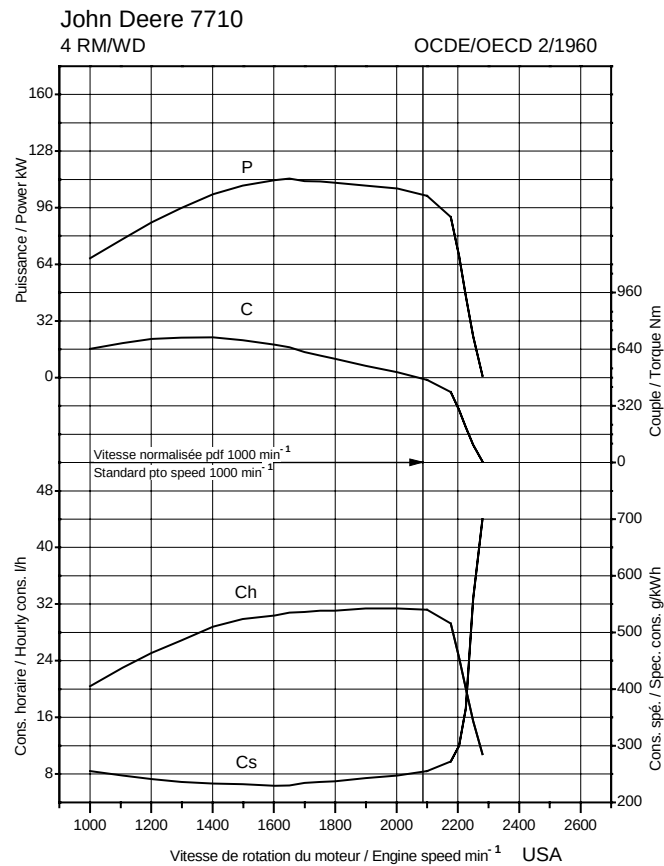
PowrQuad - MFWD - 20 speeds - 40 km/h

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	6081TRW09
<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 synchronized
<i>Number of forward and reverse speeds</i>	20	20
<i>Speed at rated engine speed</i>	from 2.41	to 39.42 km/h
<u>Standard Power take-off speed</u>	540 min ⁻¹	1000 min ⁻¹
<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>	112.6 kW	1650 min ⁻¹	791 min ⁻¹
<i>Hourly and specific consumption</i>		30.84 l/h	230 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	102.8 kW	2100 min ⁻¹	1007 min ⁻¹
<i>Hourly and specific consumption</i>		31.18 l/h	255 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	102.8 kW	2100 min ⁻¹	1007 min ⁻¹
<i>Hourly and specific consumption</i>		31.18 l/h	255 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	707.0 Nm	1401 min ⁻¹	51.4 %
---	----------	------------------------	--------

Drawbar Test

<i>Front tyres, Rear tyres</i>	14.9 - 30	18.4 - 42
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	6840 kg	
<i>Maximum drawbar pull</i>	70.4 kN	Not
<i>at speed of</i>	3.84 km/h	required
<i>Maximum power</i>	101.7 kW	in
<i>at speed of</i>	9.12 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>	49.4 kN	45.2 kN
<u>At maximum hydraulic power</u>		
<i>Flow rate, Pressure, Power</i>	95.0 l/min	17.9 MPa 28.3 kW