



OECD approval number

2/2 044

Restricted Code

OECD approval date

10/02/2003

Make

John Deere

Model

7810 IVT

Type

4 WD

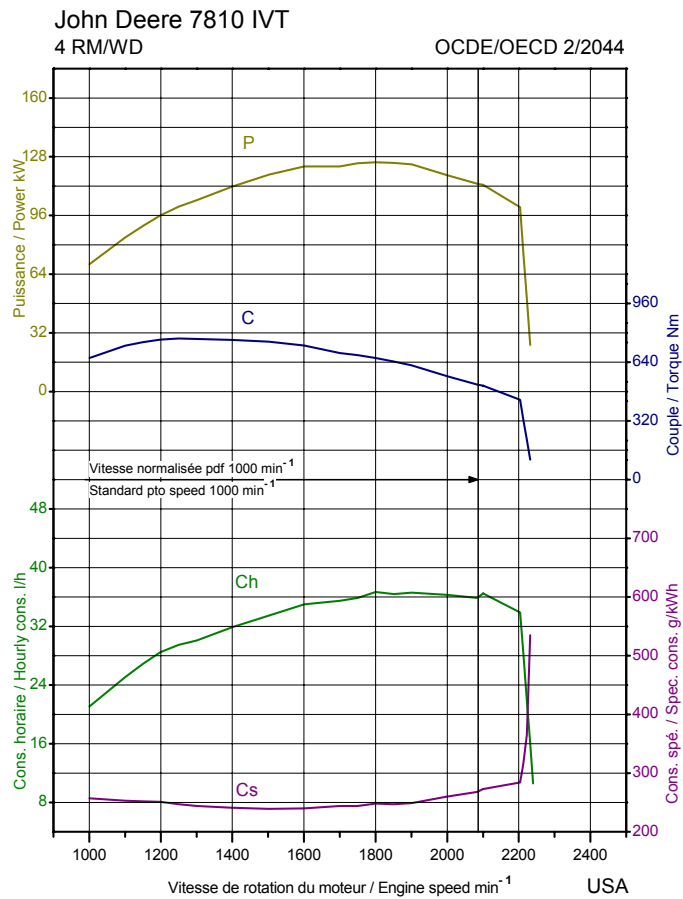
MFWD - 40 km/h

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	6081TRW09
<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>		Hydrostatic
<i>Number of forward and reverse speeds</i>		Not significant
<i>Speed at rated engine speed</i>	from 0.00	to 40.00 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>	125.0 kW	1800 min ⁻¹	863 min ⁻¹
<i>Hourly and specific consumption</i>		36.67 l/h	248 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	112.7 kW	2100 min ⁻¹	1006 min ⁻¹
<i>Hourly and specific consumption</i>		36.46 l/h	273 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	112.7 kW	2100 min ⁻¹	1006 min ⁻¹
<i>Hourly and specific consumption</i>		36.46 l/h	273 g/kWh

Torque rise

50.4 %

Maximum torque, Engine speed corresponding770.0 Nm 1250 min⁻¹**Drawbar Test***Front tyres, Rear tyres*

14.9 R 30 18.4 R 42

Test with tractorunballasted ballasted*Total Mass*

7348 kg 8893 kg

Maximum drawbar pull

74.3 kN 94.4 kN

at speed of

4.74 km/h 2.91 km/h

Maximum power

117.2 kW 105.6 kW

at speed of

11.21 km/h 5.62 km/h

Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power

<i>Flow rate, Pressure, Power</i>	97.3 l/min	17.6 MPa	28.6 kW
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Maximum lifting force

<i>at hitch points, at frame</i>		49.4 kN	45.2 kN
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