



OECD approval number

2/2 083

Restricted Code

OECD approval date

23/09/03

Make

John Deere

Model

8120

Type

4 WD

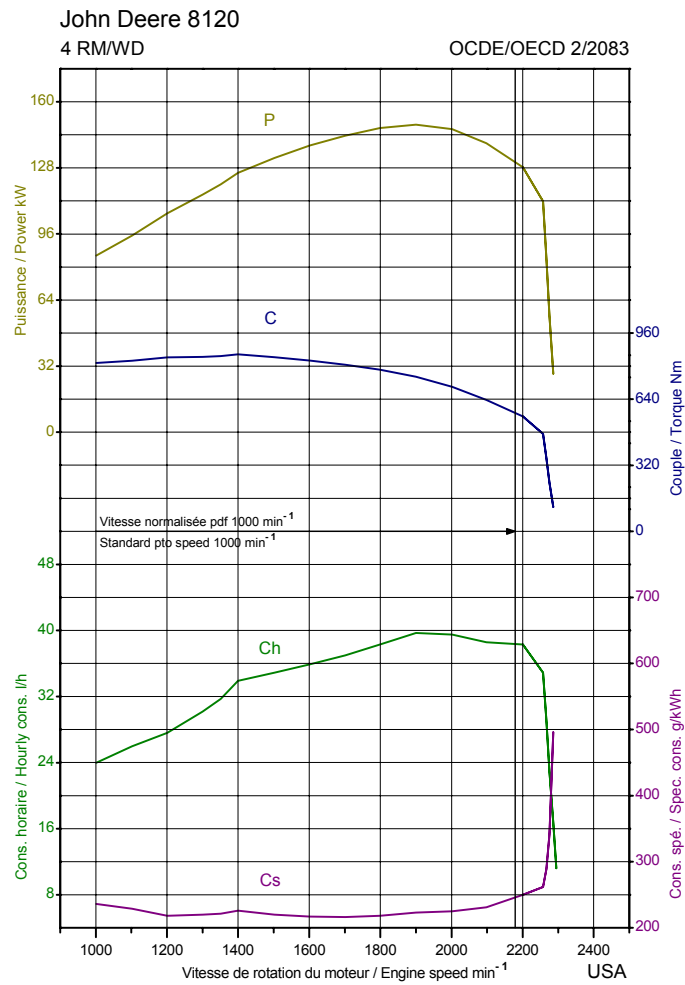
Powershift - MFWD - 40 km/h

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	6081HRW23
<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 1.91	to 39.67 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>	148.9 kW	1900 min ⁻¹	872 min ⁻¹
<i>Hourly and specific consumption</i>		39.69 l/h	223 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	128.4 kW	2201 min ⁻¹	1010 min ⁻¹
<i>Hourly and specific consumption</i>		38.27 l/h	250 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	128.4 kW	2201 min ⁻¹	1010 min ⁻¹
<i>Hourly and specific consumption</i>		38.27 l/h	250 g/kWh

Torque rise

53.9 %

Maximum torque. Engine speed corresponding857.0 Nm 1400 min⁻¹**Drawbar Test***Front tyres, Rear tyres*

380/85 R 34 480/80 R 46

Test with tractorunballasted ballasted*Total Mass*

9103 kg 10083 kg

Maximum drawbar pull

83.5 kN 99.2 kN

at speed of

4.11 km/h 3.03 km/h

Maximum power

129.3 kW 129.9 kW

at speed of

8.92 km/h 6.63 km/h

Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power*Flow rate, Pressure, Power (couplers: 1 pair)* 133.2 l/min 14.9 MPa 33.0 kW*Flow rate, Pressure, Power (couplers: 2 pairs or +)* 160.5 l/min 17.3 MPa 46.2 kWMaximum lifting force*at hitch points, at frame (Cat. 3, N.A., 2 x Ø 90 mm cylinders)* 62.0 kN 54.9 kN*at hitch points, at frame (Cat. 3, 2 x Ø 100 mm cylinders)* 69.4 kN 66.4 kN*at hitch points, at frame (Cat. 3, N.A., 2 x Ø 100 mm cylinders)* 76.3 kN 68.4 kN