



OECD approval number

2/2 084

Restricted Code

OECD approval date

23/09/03

Make

John Deere

Model

8220

Type

4 WD

Powershift - MFWD - 40 km/h

Manufacturer

John Deere Tractor Works

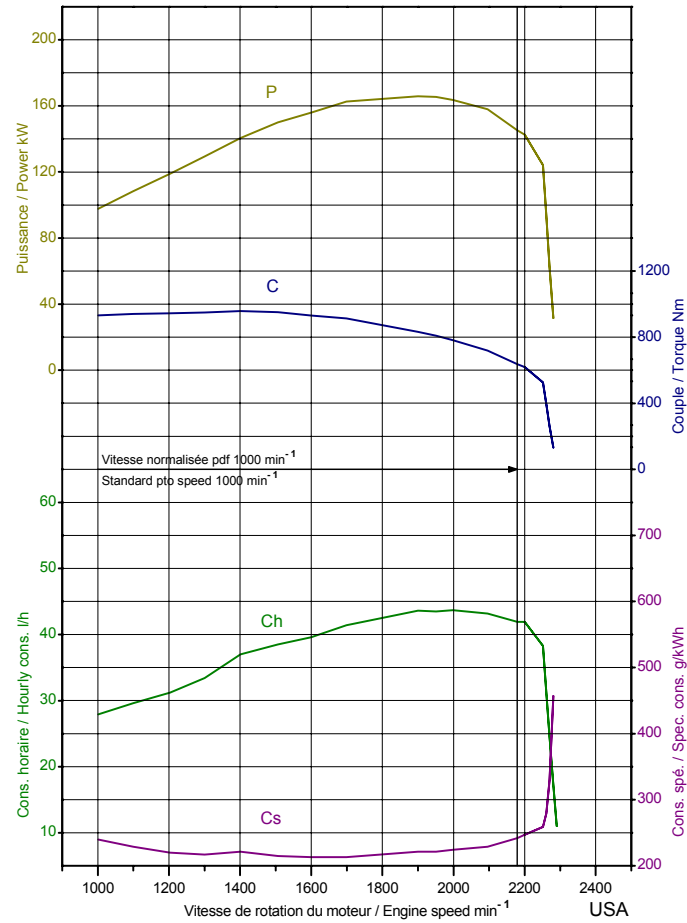
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

John Deere 8220

4 RM/WD

OCDE/OECD 2/2084



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>	165.8 kW	1900 min ⁻¹	872 min ⁻¹
<i>Hourly and specific consumption</i>		43.63 l/h	221 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	142.6 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		41.95 l/h	247 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	142.6 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		41.95 l/h	247 g/kWh

Torque rise

54.8 %

Maximum torque. Engine speed corresponding958.0 Nm 1401 min⁻¹**Drawbar Test**

<i>Front tyres, Rear tyres</i>	380/85 R 34	480/80 R 46
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	9097 kg	11015 kg
<i>Maximum drawbar pull</i>	82.9 kN	106.2 kN
<i>at speed of</i>	4.53 km/h	3.13 km/h
<i>Maximum power</i>	142.5 kW	145.8 kW
<i>at speed of</i>	8.82 km/h	8.93 km/h

Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power

<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	133.6 l/min	13.8 MPa	30.8 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	161.3 l/min	16.9 MPa	45.5 kW

Maximum lifting force

<i>at hitch points, at frame (Cat. 3, N.A., 2 x Ø 90 mm cylinders)</i>	62.0 kN	54.9 kN
<i>at hitch points, at frame (Cat. 3, 2 x Ø 100 mm cylinders)</i>	69.4 kN	66.4 kN
<i>at hitch points, at frame (Cat. 3, N.A., 2 x Ø 100 mm cylinders)</i>	76.3 kN	68.4 kN