



OECD approval number

2/2 045

Restricted Code

OECD approval date

10/02/2003

Make

John Deere

Model

8320

Type

4 WD

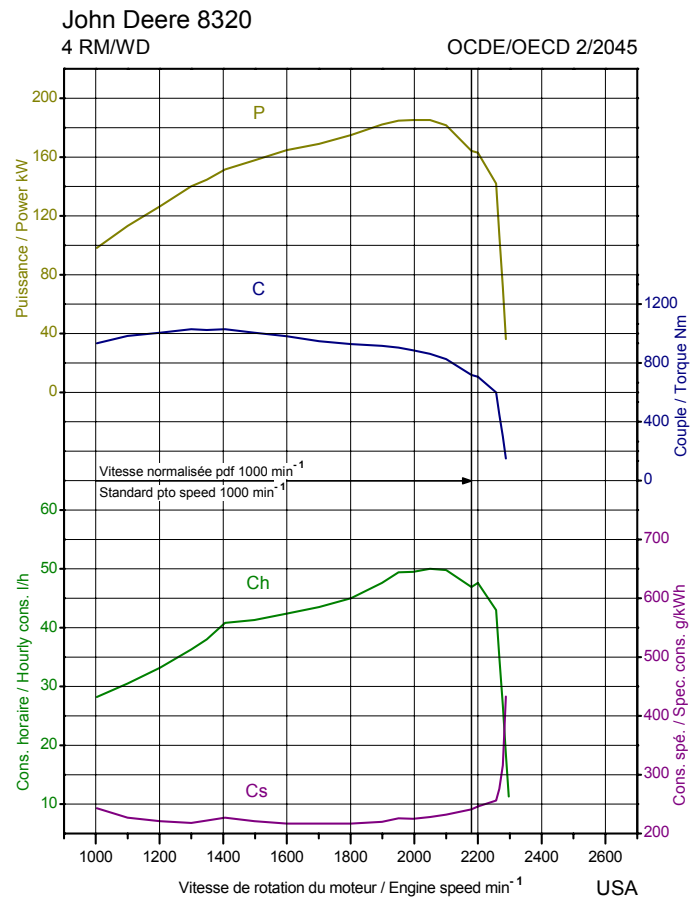
Powershift - MFWD - 40 km/h

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	6081HRW25
<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 38.67 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>	184.9 kW	1950 min ⁻¹	894 min ⁻¹
<i>Hourly and specific consumption</i>		49.38 l/h	226 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	163.0 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		47.58 l/h	246 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	163.0 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		47.58 l/h	246 g/kWh

Torque rise

		45.7 %	
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Maximum torque, Engine speed corresponding

1030.0 Nm	1300 min ⁻¹
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Drawbar Test*Front tyres, Rear tyres*

380/85 R 34	480/80 R 46
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Test with tractor

<u>unballasted</u>	<u>ballasted</u>
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Total Mass

9090 kg	11459 kg
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Maximum drawbar pull

86.8 kN	112.2 kN
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at speed of

5.35 km/h	4.25 km/h
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Maximum power

161.7 kW	163.8 kW
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at speed of

8.96 km/h	9.17 km/h
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Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power

<i>Flow rate, Pressure, Power</i>	125.7 l/min	18.6 MPa	39.1 kW
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Maximum lifting force

<i>at hitch points, at frame</i>	80.5 kN	76.6 kN
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