



OECD approval number

2/2 171

Restricted Code

OECD approval date

23/09/2004

Make

John Deere

Model

7920

Type

4 WD

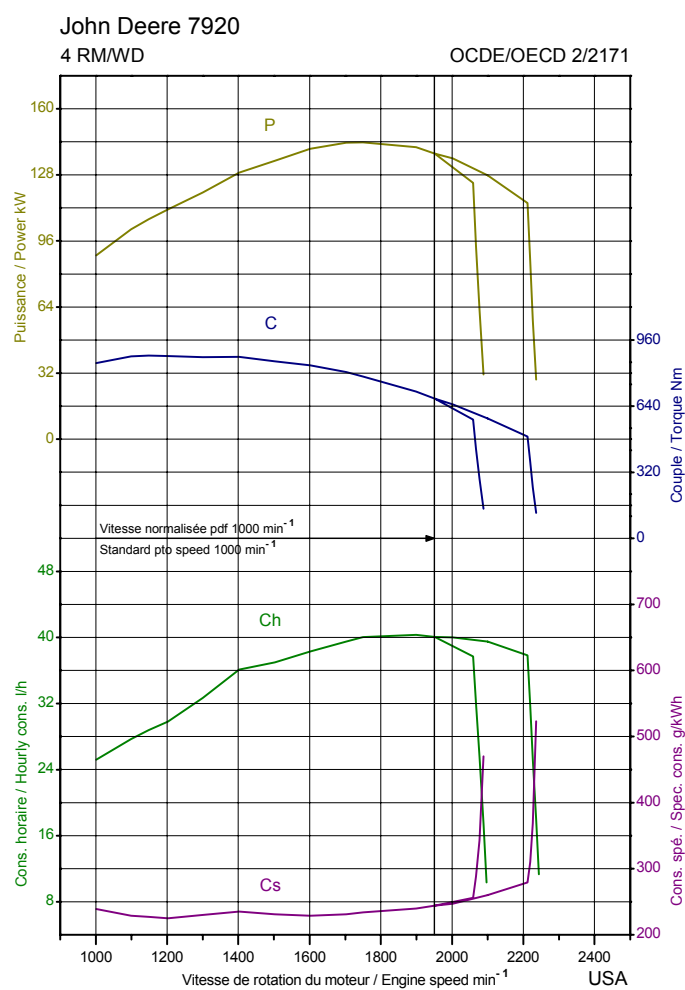
AutoPowr - IVT - MFWD - 40 km/h

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	6081HRW41
<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>	<u>540 min⁻¹</u>	<u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>	582 min ⁻¹	1077 min ⁻¹
<i>Diameter of the shaft</i>	35 mm	45 mm
<i>Number of splines</i>	6	20

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	143.8 kW	1750 min ⁻¹	897 min ⁻¹
<i>Hourly and specific consumption</i>		40.03 l/h	234 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	127.7 kW	2100 min ⁻¹	1076 min ⁻¹
<i>Hourly and specific consumption</i>		39.50 l/h	260 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	138.4 kW	1951 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		40.06 l/h	244 g/kWh

Torque rise

52.5 %

Maximum torque, Engine speed corresponding886.0 Nm 1148 min⁻¹**Drawbar Test**

<i>Front tyres, Rear tyres</i>	420/90 R 30	480/80 R 46
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	8153 kg	10532 kg
<i>Maximum drawbar pull</i>	77.5 kN	103.2 kN
<i>at speed of</i>	4.02 km/h	3.13 km/h
<i>Maximum power</i>	123.7 kW	126.1 kW
<i>at speed of</i>	10.86 km/h	7.78 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>	121.9 l/min	15.2 MPa	30.8 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	122.0 l/min	18.0 MPa	36.6 kW

Maximum lifting force

<i>at the hitch points, at frame (Cat. 3, Euro, 2xØ 90 mm cylinders)</i>	69.6 kN	75.1 kN
<i>at the hitch points, at frame (Cat. 3, Euro, 2xØ 100 mm cylinders)</i>	69.6 kN	75.1 kN
<i>at the hitch points, at frame (Cat. 3, 2xØ 90 mm cylinders)</i>	55.2 kN	60.6 kN
<i>at the hitch points, at frame (Cat. 3, 2xØ 100 mm cylinders)</i>	75.2 kN	69.3 kN