



OECD approval number

2/2 169

Restricted Code

OECD approval date

20/09/2004

Make

John Deere

Model

7720

Type

4 WD

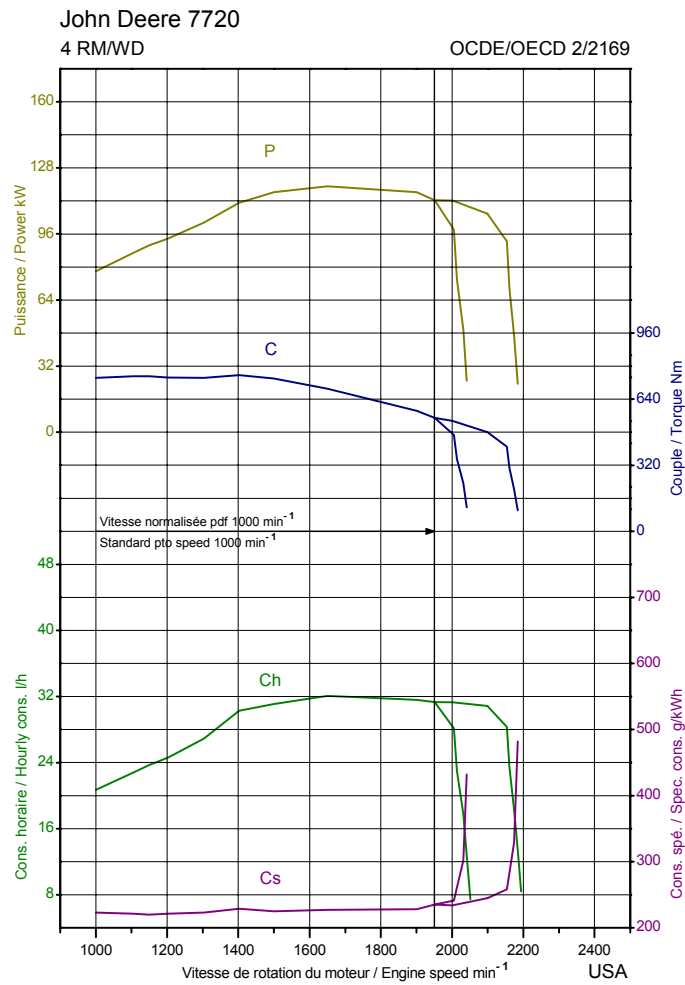
PowerQuad Plus - 20 speeds - MFWD - 40 km/h

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	6068HRW54
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	6788 cm ³	Liquid
<i>Gear box</i>		Mechanical
<i>Number of forward and reverse speeds</i>		20 20
<i>Speed at rated engine speed</i>		from 2.41 to 39.42 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 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>	119.2 kW	1650 min ⁻¹	846 min ⁻¹
<i>Hourly and specific consumption</i>		32.08 l/h	227 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	105.8 kW	2099 min ⁻¹	1076 min ⁻¹
<i>Hourly and specific consumption</i>		30.86 l/h	245 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	112.3 kW	1951 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		31.32 l/h	235 g/kWh

Torque rise

<u>Maximum torque. Engine speed corresponding</u>		757.0 Nm	1402 min ⁻¹
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Drawbar Test

<i>Front tyres, Rear tyres</i>	380/85 R 30	480/80 R 42
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	7477 kg	9097 kg
<i>Maximum drawbar pull</i>	73.1 kN	91.7 kN
<i>at speed of</i>	3.87 km/h	3.28 km/h
<i>Maximum power</i>	108.1 kW	108.6 kW
<i>at speed of</i>	8.99 km/h	5.58 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>	119.4 l/min	14.6 MPa	29.0 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	121.6 l/min	17.2 MPa	34.9 kW

Maximum lifting force

<i>at the hitch points, at frame (Cat. 3, Euro, 2xØ 90 mm cylinders)</i>	55.2 kN	60.6 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>	54.3 kN	45.0 kN
<i>at the hitch points, at frame (Cat. 3, 2xØ 100 mm cylinders)</i>	75.2 kN	69.3 kN

