



OECD approval number

2/2 046

Restricted Code

OECD approval date

11/02/2003

Make

John Deere

Model

8420

Type

4 WD

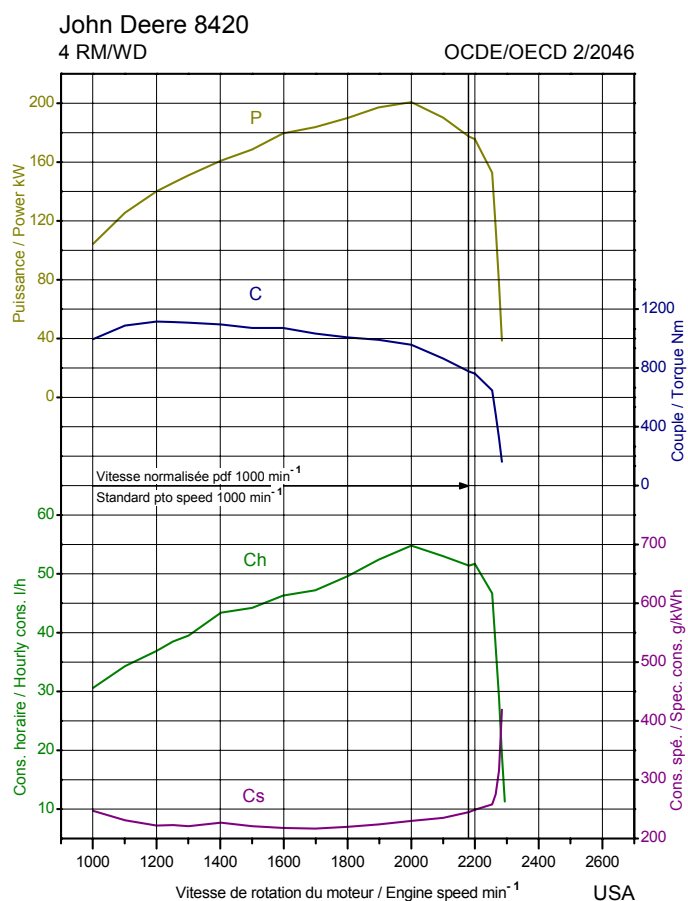
Powershift - MFWD - 40 km/h

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	6081HRW35
<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>	200.9 kW	2000 min ⁻¹	917 min ⁻¹
<i>Hourly and specific consumption</i>		54.77 l/h	230 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	175.6 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		51.69 l/h	249 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	175.6 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		51.69 l/h	249 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		1116.0 Nm	1200 min ⁻¹
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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>	10791 kg	12657 kg
<i>Maximum drawbar pull</i>	108.1 kN	121.8 kN
<i>at speed of</i>	4.75 km/h	4.14 km/h
<i>Maximum power</i>	174.4 kW	176.4 kW
<i>at speed of</i>	9.32 km/h	9.35 km/h

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>			Closed centre
<u>At maximum hydraulic power</u>			
<i>Flow rate, Pressure, Power</i>	125.7 l/min	18.6 MPa	39.1 kW
<u>Maximum lifting force</u>			
<i>at hitch points, at frame</i>		80.5 kN	76.6 kN