



OECD approval number

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Restricted Code

OECD approval date

27/08/2007

Make

John Deere

Model

8230

Type

4 WD

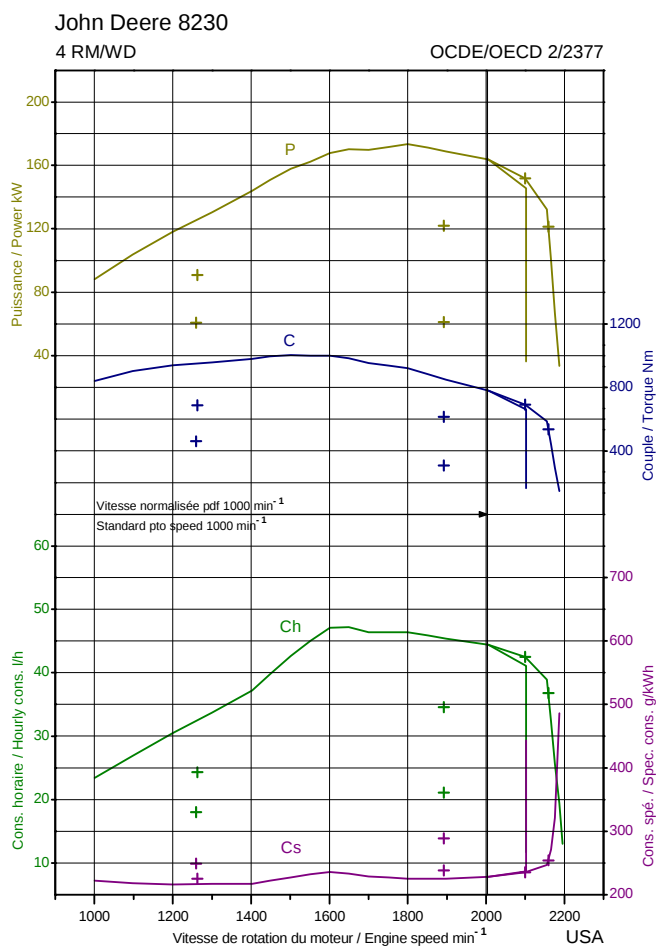
Power Shift Transmission (PST) - MFWD - 40 km/h

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	6090HRW02
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	8984 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 1.81	to 37.67 km/h
<i>Standard Power take-off speed</i>	<u>540 min⁻¹</u>	<u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>		1048 min ⁻¹
<i>Diameter of the shaft</i>		45 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>	173.4 kW	1800 min ⁻¹	897 min ⁻¹
<i>Hourly and specific consumption</i>		46.44 l/h	225 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	151.9 kW	2100 min ⁻¹	1047 min ⁻¹
<i>Hourly and specific consumption</i>		42.52 l/h	235 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	163.8 kW	2005 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		44.42 l/h	228 g/kWh

Torque rise

		45.2 %	
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Maximum torque, Engine speed corresponding

1003.0 Nm	1502 min ⁻¹
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Drawbar Test*Front tyres, Rear tyres*

420/90 R 30	480/80 R 46
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Test with tractor

	<u>unballasted</u>	<u>ballasted</u>
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<i>Total Mass</i>	9678 kg	12258 kg
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<i>Maximum drawbar pull</i>	85.1 kN	109.6 kN
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<i>at speed of</i>	5.26 km/h	4.06 km/h
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<i>Maximum power</i>	154.0 kW	156.1 kW
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<i>at speed of</i>	10.00 km/h	7.48 km/h
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Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power (63 cc pump)

<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	149.5 l/min	14.5 MPa	36.1 kW
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<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	172.6 l/min	17.1 MPa	49.1 kW
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Maximum lifting force

<i>at the hitch points, at frame (Cat. 3, 2xØ 100 mm cylinders)</i>	69.3 kN	68.2 kN
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