



OECD approval number

2/2 381

Restricted Code

OECD approval date

27/08/2007

Make

John Deere

Model

8530

Type

4 WD

IVT - MFWD - 40 km/h

Manufacturer:

John Deere Tractor Works

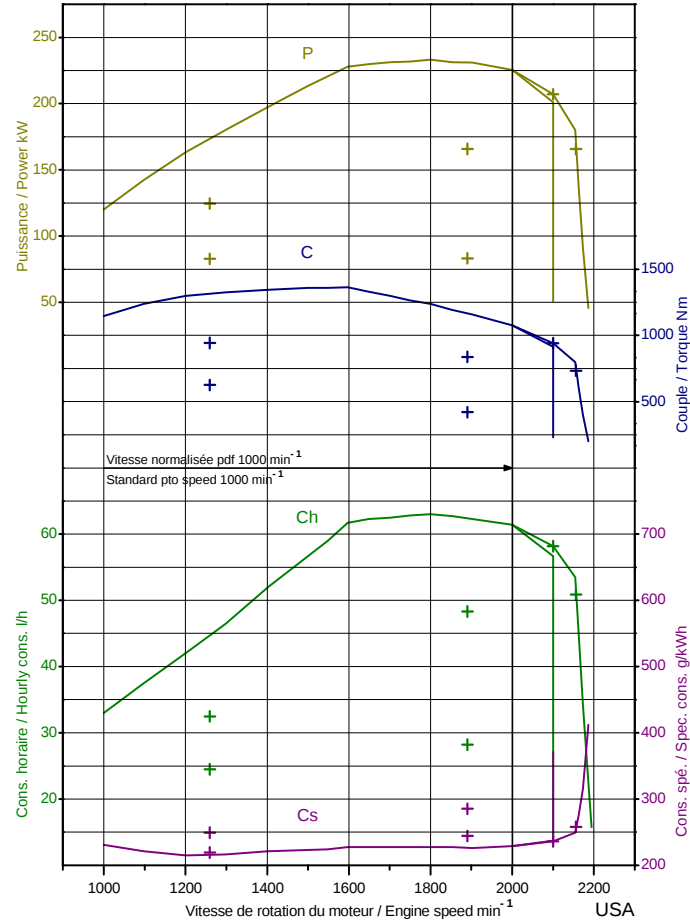
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

John Deere 8530 IVT

4 RM/WD

OCDE/OECD 2/2381



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	6090HRW08
<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>		Hydrostatic and mechanical
<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
<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>		1050 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>	233.2 kW	1800 min ⁻¹	900 min ⁻¹
<i>Hourly and specific consumption</i>		63.05 l/h	227 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	207.0 kW	2100 min ⁻¹	1050 min ⁻¹
<i>Hourly and specific consumption</i>		58.22 l/h	236 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	225.5 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		61.42 l/h	229 g/kWh

Torque rise

		45.0 %	
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Maximum torque, Engine speed corresponding

1364.0 Nm	1597 min ⁻¹
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Drawbar Test*Front tyres, Rear tyres*

420/85 R 34	480/80 R 50
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Test with tractor

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

12152 kg	16771 kg
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Maximum drawbar pull

110.5 kN	163.8 kN
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at speed of

5.21 km/h	3.27 km/h
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Maximum power

204.8 kW	206.0 kW
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at speed of

9.01 km/h	8.96 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 (couplers: 1 pair)</i>	141.2 l/min	14.3 MPa	33.7 kW
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<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	232.4 l/min	17.0 MPa	66.0 kW
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Maximum lifting force

<i>at the hitch points, at frame</i>	87.1 kN	84.4 kN
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