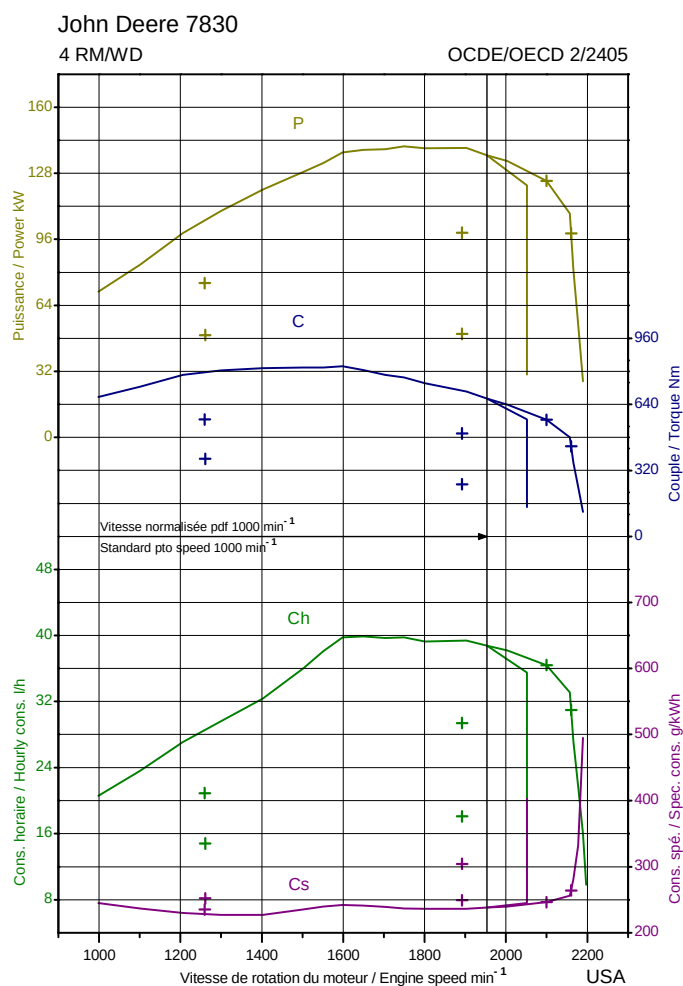




OECD approval number 2/2 405
OECD approval date 17/03/2008
Make John Deere
Model 7830
Type 4 WD
 AutoQuad Plus - MFWD - 40 km/h
 Manufacturer John Deere Tractor Works
 Testing station: Nebraska Tractor Test Laboratory, Lincoln, USA



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	PE6068HRW65
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	6784 cm ³	Liquid
<i>Gear box</i>		Mechanical powershift
<i>Number of forward and reverse speeds</i>	20	20
<i>Speed at rated engine speed</i>	from 2.51	to 41.01 km/h
<i>Standard Power take-off speed</i>	540 min ⁻¹	1000 min ⁻¹
<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>	141.1 kW	1749 min ⁻¹	896 min ⁻¹
<i>Hourly and specific consumption</i>		39.78 l/h	237 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	124.4 kW	2100 min ⁻¹	1075 min ⁻¹
<i>Hourly and specific consumption</i>		36.40 l/h	246 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	136.8 kW	1953 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		38.82 l/h	238 g/kWh

Torque rise

		45.8 %	
<u>Maximum torque, Engine speed corresponding</u>	825.0 Nm	1598 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>	8042 kg	10509 kg
<i>Maximum drawbar pull</i>	71.7 kN	96.6 kN
<i>at speed of</i>	5.10 km/h	3.47 km/h
<i>Maximum power</i>	126.0 kW	127.8 kW
<i>at speed of</i>	10.20 km/h	6.35 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>	145.4 l/min	13.2 MPa	32.1 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	165.0 l/min	17.9 MPa	49.1 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>	53.1 kN	48.9 kN
<i>at the hitch points, at frame (Cat. 3, 2xØ 100 mm cylinders)</i>	75.2 kN	69.3 kN

