



OECD approval number

2/2 404

OECD approval date

14/03/2008

Make

John Deere

Model

7730

Type

4 WD

AutoQuad Plus - MFWD - 40 km/h

Manufacturer

John Deere Tractor Works

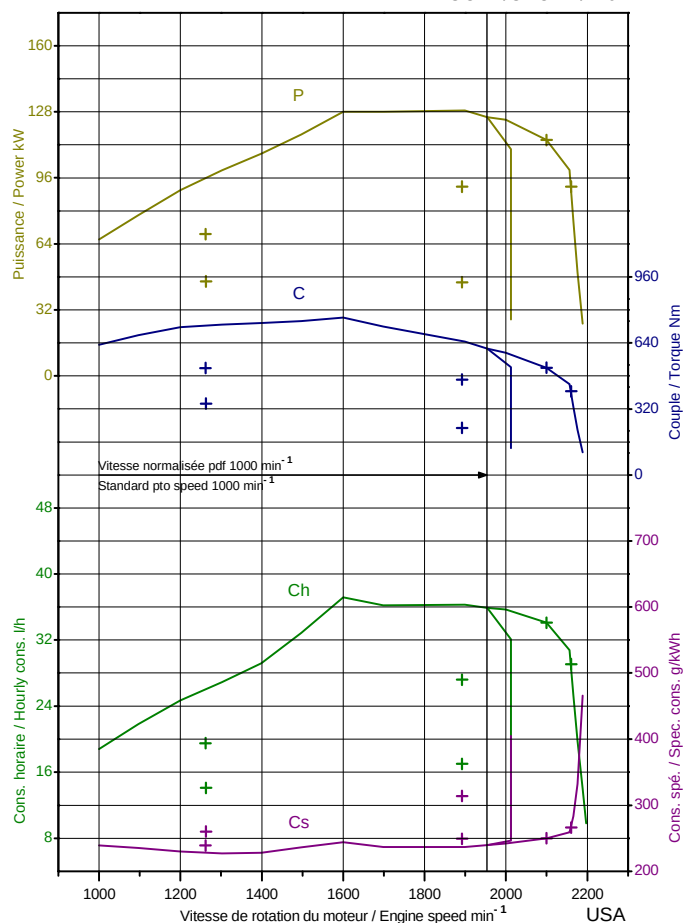
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

John Deere 7730

4 RM/WD

OCDE/OECD 2/2404



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	PE6068HRW64
<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 2.41	to 39.42 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>	128.6 kW	1900 min ⁻¹	973 min ⁻¹
<i>Hourly and specific consumption</i>		36.33 l/h	237 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	114.3 kW	2100 min ⁻¹	1075 min ⁻¹
<i>Hourly and specific consumption</i>		34.08 l/h	250 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	125.4 kW	1954 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		35.88 l/h	240 g/kWh

Torque rise

		46.9 %
<u>Maximum torque, Engine speed corresponding</u>	764.0 Nm	1600 min ⁻¹

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>	7772 kg	9677 kg
<i>Maximum drawbar pull</i>	71.9 kN	91.4 kN
<i>at speed of</i>	3.80 km/h	3.25 km/h
<i>Maximum power</i>	113.9 kW	116.9 kW
<i>at speed of</i>	7.92 km/h	6.47 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>	117.3 l/min	15.6 MPa	30.5 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	118.5 l/min	17.7 MPa	35.0 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

