



OECD approval number

2/2 406

OECD approval date

20/03/2008

Make

John Deere

Model

7930

Type

4 WD

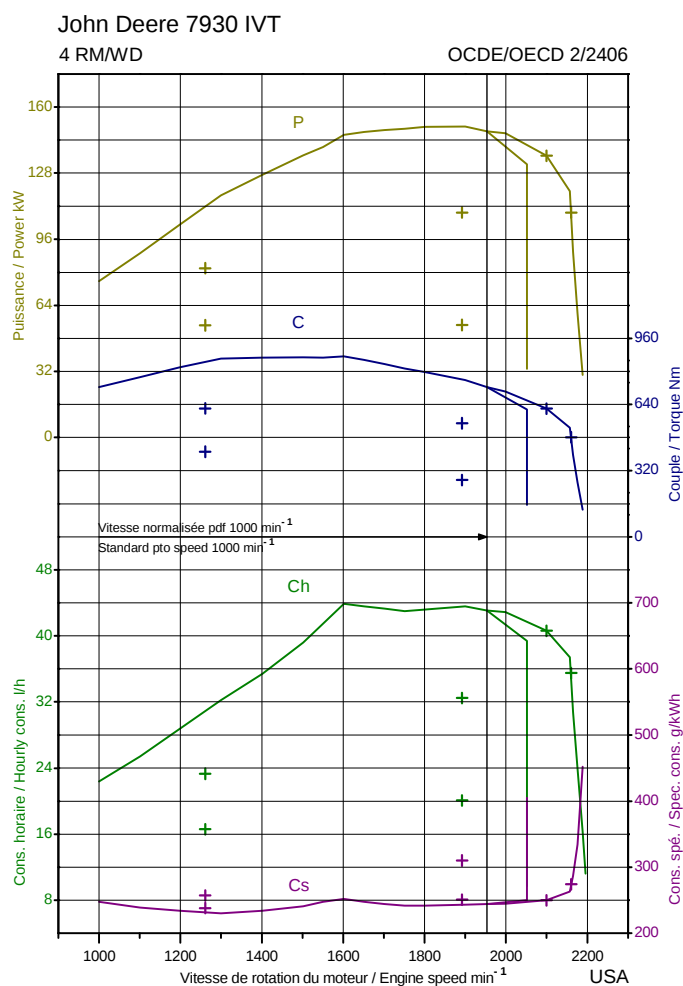
IVT - MFWD - 40 km/h

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>		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>		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>	150.7 kW	1900 min^{-1}	973 min^{-1}
<i>Hourly and specific consumption</i>		43.55 l/h	243 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	136.4 kW	2100 min^{-1}	1075 min^{-1}
<i>Hourly and specific consumption</i>		40.65 l/h	250 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	148.2 kW	1953 min^{-1}	1000 min^{-1}
<i>Hourly and specific consumption</i>		43.07 l/h	244 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		874.0 Nm	1602 min^{-1}
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Drawbar Test

<i>Front tyres, Rear tyres</i>	420/90 R 30	480/80 R 46
<i>Test with tractor</i>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	8294 kg	11580 kg
<i>Maximum drawbar pull</i>	76.0 kN	106.4 kN
<i>at speed of</i>	4.02 km/h	3.16 km/h
<i>Maximum power</i>	119.2 kW	134.0 kW
<i>at speed of</i>	8.53 km/h	7.80 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>	144.2 l/min	13.2 MPa	31.8 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	168.1 l/min	17.5 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

