



OECD approval number

1 733/1

Restricted Code

OECD approval date

20/01/1998

Make

John Deere

Model

9100

Type

Articulated 4 WD with dual wheels

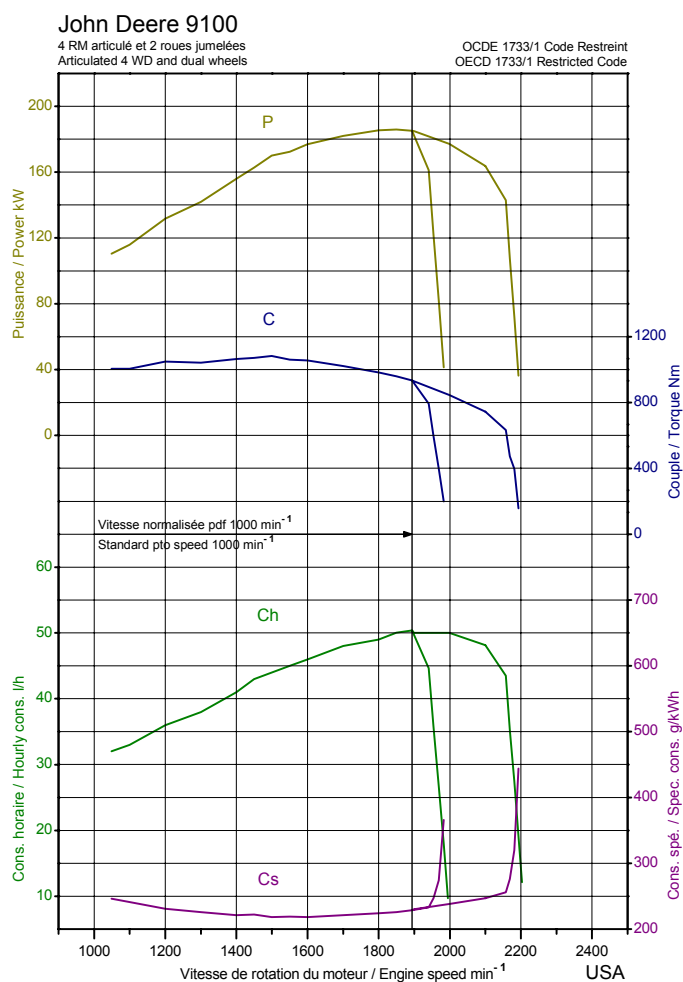
PowrSync - 24 speeds

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	6181HRW05
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	8132 cm ³	Liquid
<i>Gear box</i>		Mechanical
<i>Number of forward and reverse speeds</i>	24	6
<i>Speed at rated engine speed</i>	from 3.36	to 35.56 km/h
<u>Standard Power take-off speed</u>	<u>540 min⁻¹</u>	<u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>		1108 min ⁻¹
<i>Diameter of the shaft</i>		44.5 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>	186.0 kW	1850 min ⁻¹	977 min ⁻¹
<i>Hourly and specific consumption</i>		50.03 l/h	226 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	163.8 kW	2100 min ⁻¹	1108 min ⁻¹
<i>Hourly and specific consumption</i>		48.14 l/h	247 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	185.1 kW	1894 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		50.37 l/h	229 g/kWh

Torque rise

		45.4 %	
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Maximum torque, Engine speed corresponding

1083.0 Nm	1499 min ⁻¹
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Drawbar Test*Front tyres, Rear tyres*

20.8 R 42	20.8 R 42
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Test with tractor

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

15217 kg

Maximum drawbar pull

151.4 kN

at speed of

3.21 km/h

*Not required**Maximum power*

168.9 kW

at speed of

6.92 km/h

Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power*Flow rate, Pressure, Power*

151.0 l/min

17.2 MPa

43.4 kW

Maximum lifting force*at hitch points, at frame*

62.2 kN

58.3 kN