



OECD approval number

2/2 043

Restricted Code

OECD approval date

06/02/2003

Make

John Deere

Model

8320T

Type

Rubber tracklaying tractor

Powershift - 30 km/h

Manufacturer

John Deere Tractor Works

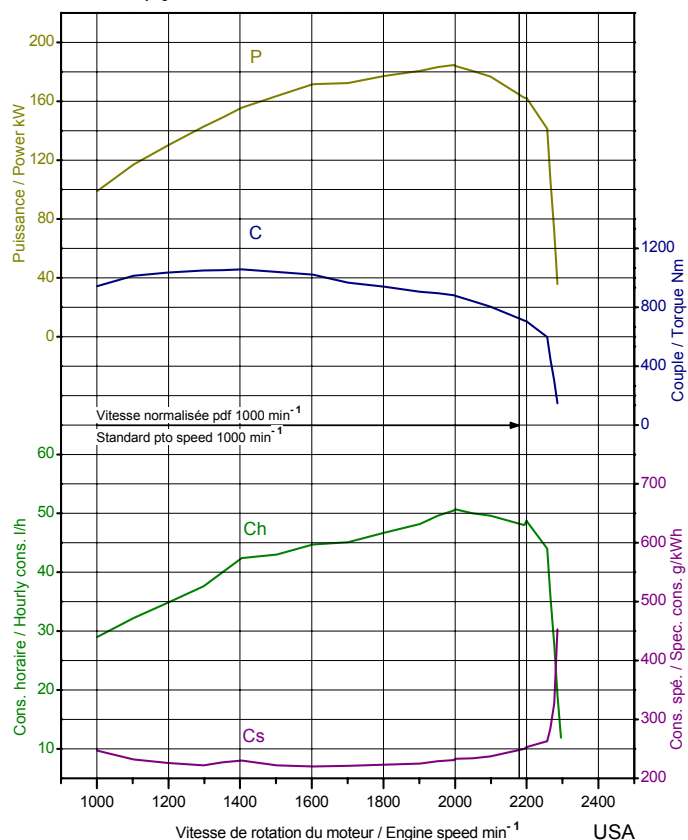
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

John Deere 8320T

Rubber tracklaying tractor/tracteur à chenilles caoutchouc

OCDE/OECD 2/2043



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	6081HRW25
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	8134 cm ³	Liquid
<i>Gear box</i>		Mechanical powershift
<i>Number of forward and reverse speeds</i>		18 4
<i>Speed at rated engine speed</i>		from 1.55 to 30.78 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>		1009 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>	183.9 kW	2000 min ⁻¹	917 min ⁻¹
<i>Hourly and specific consumption</i>		50.75 l/h	233 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	162.3 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		48.69 l/h	253 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	162.3 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		48.69 l/h	253 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		1058.0 Nm	1405 min ⁻¹
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Drawbar Test

<i>Track length and track width</i>	8230 mm	610 mm
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	12131 kg	13152 kg
<i>Maximum drawbar pull</i>	121.1 kN	128.6 kN
<i>at speed of</i>	3.64 km/h	3.30 km/h
<i>Maximum power</i>	158.0 kW	157.5 kW
<i>at speed of</i>	7.56 km/h	6.59 km/h

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>			Closed centre
<u>At maximum hydraulic power</u>			
<i>Flow rate, Pressure, Power</i>	129.5 l/min	17.2 MPa	37.1 kW
<u>Maximum lifting force</u>			
<i>at hitch points, at frame</i>		67.8 kN	66.0 kN