



OECD approval number

2/1 937/1

Restricted Code

OECD approval date

13/03/2003

Make

John Deere

Model

8420T

Type

Rubber tracklaying tractor

Powershift - 30 km/h

Manufacturer

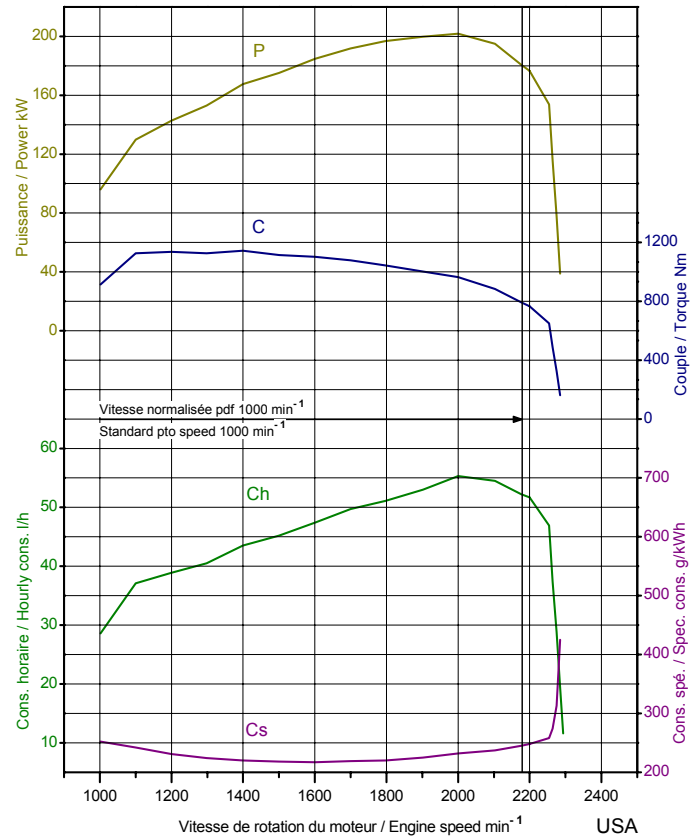
John Deere Tractor Works

Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

John Deere 8420T

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor OCDE/OECD 2/1937/1



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	6081HRW18
<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>	16	4
<i>Speed at rated engine speed</i>	from 1.87	to 29.13 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>	201.8 kW	2000 min ⁻¹	917 min ⁻¹
<i>Hourly and specific consumption</i>		55.25 l/h	232 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	176.5 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		51.70 l/h	248 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	176.5 kW	2200 min ⁻¹	1009 min ⁻¹
<i>Hourly and specific consumption</i>		51.70 l/h	248 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		1144.0 Nm	1400 min ⁻¹
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Drawbar Test

<i>Track length and track width</i>	8230 mm	762 mm
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	11965 kg	12986 kg
<i>Maximum drawbar pull</i>	121.1 kN	135.9 kN
<i>at speed of</i>	2.60 km/h	2.09 km/h
<i>Maximum power</i>	173.5 kW	175.7 kW
<i>at speed of</i>	7.53 km/h	7.64 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>	124.2 l/min	17.5 MPa	36.2 kW
<u>Maximum lifting force</u>			
<i>at hitch points, at frame</i>		56.7 kN	55.8 kN