



OECD approval number

2/2 266

Restricted Code

OECD approval date

02/09/2005

Make

John Deere

Model

5103

Type

2 WD

PY 5103 U - 30 km/h

Manufacturer:

M/s John Deere Equipment Private Limited

Testing station:

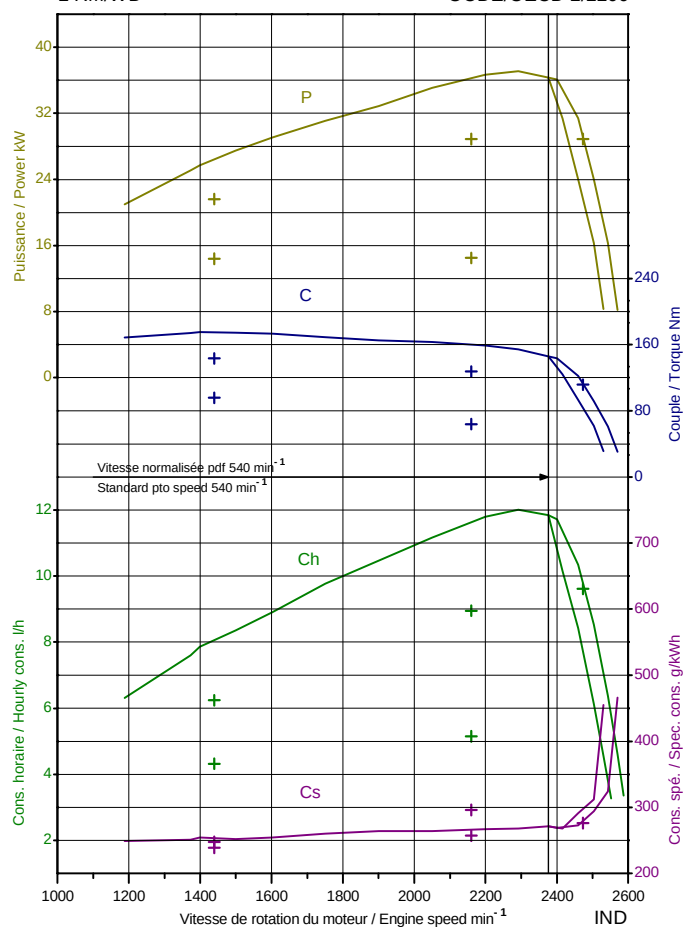
Central Farm Machinery Training

and Testing Institute, Budni, India

John Deere 5103

2 RMWD

OCDE/OECD 2/2266



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	3029 DPY 12
<i>Type, Supercharging</i>	Direct injection	None
<i>Cylinders, Disposition</i>	3	vertical in line
<i>Capacity, Cooling</i>	2900 cm ³	Liquid
<i>Gear box</i>		Mechanical
<i>Number of forward and reverse speeds</i>	9	3
<i>Speed at rated engine speed</i>	from 2.03	to 28.70 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>	545 min ⁻¹	None
<i>Diameter of the shaft</i>	34.78 mm	
<i>Number of splines</i>	6	

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	37.1 kW	2292 min ⁻¹	521 min ⁻¹
<i>Hourly and specific consumption</i>		12.01 l/h	268 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	36.1 kW	2400 min ⁻¹	545 min ⁻¹
<i>Hourly and specific consumption</i>		11.72 l/h	269 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	36.3 kW	2376 min ⁻¹	540 min ⁻¹
<i>Hourly and specific consumption</i>		11.85 l/h	271 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	175.2 Nm	1399 min ⁻¹	22.0 %
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Drawbar Test

<i>Front tyres, Rear tyres</i>	7.50 - 16	13.6 - 28
<i>Test with tractor</i>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	2110 kg	
<i>Maximum drawbar pull</i>	16.7 kN	Not
<i>at speed of</i>	3.96 km/h	required
<i>Maximum power</i>	30.5 kW	in
<i>at speed of</i>	7.45 km/h	Code 2

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>		Opened centre
<u>At maximum hydraulic power</u>		
<i>Flow rate, Pressure, Power</i>	42.8 l/min	16.2 MPa 11.5 kW
<u>Maximum lifting force</u>		
<i>at hitch points, at frame</i>	20.1 kN	11.2 kN