

OECD approval number

2/2 268

Restricted Code

OECD approval date

02/09/2005

Make

John Deere

Model

5303

Type

2 WD

PY 5303 U - 30 km/h

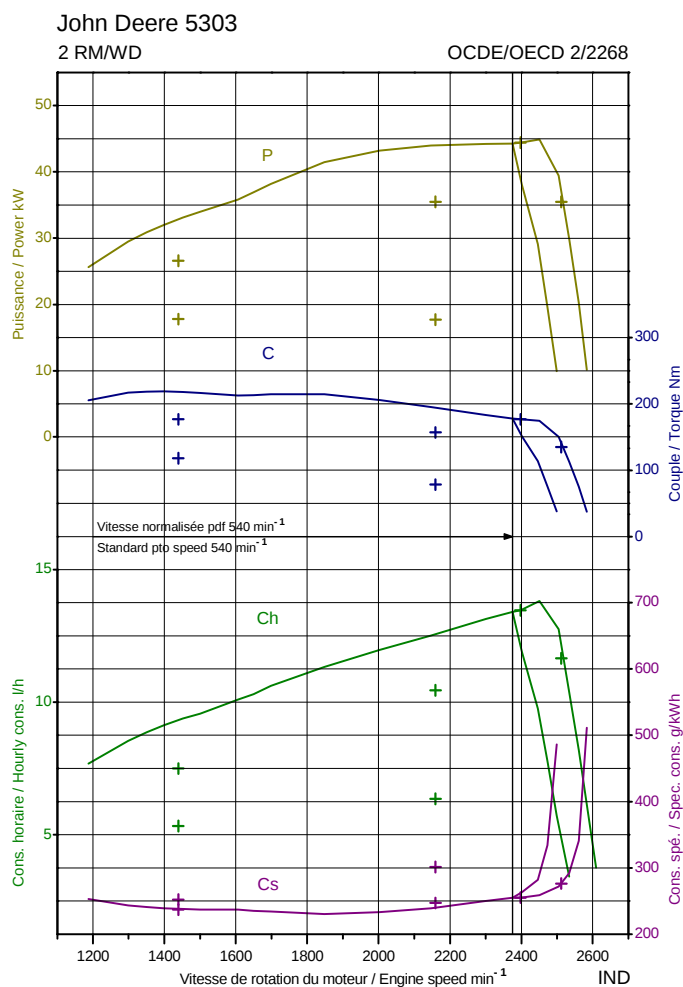
Manufacturer:

M/s John Deere Equipment Private Limited

Testing station:

Central Farm Machinery Training

and Testing Institute, Budni, India



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	3029 TPY 11
<i>Type, Supercharging</i>	Direct injection	Yes
<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 2.23	to 31.51 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>	44.9 kW	2451 min ⁻¹	557 min ⁻¹
<i>Hourly and specific consumption</i>		13.81 l/h	259 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	44.4 kW	2398 min ⁻¹	545 min ⁻¹
<i>Hourly and specific consumption</i>		13.46 l/h	255 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	44.3 kW	2376 min ⁻¹	540 min ⁻¹
<i>Hourly and specific consumption</i>		13.41 l/h	255 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	218.6 Nm	1399 min ⁻¹	23.6 %
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Drawbar Test

<i>Front tyres, Rear tyres</i>	7.50 - 16	16.9 - 28
<i>Test with tractor</i>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	2220 kg	
<i>Maximum drawbar pull</i>	18.7 kN	Not
<i>at speed of</i>	4.43 km/h	required
<i>Maximum power</i>	35.0 kW	in
<i>at speed of</i>	8.46 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>	41.0 l/min	15.7 MPa	10.7 kW
<u>Maximum lifting force</u>			
<i>at hitch points, at frame</i>		17.4 kN	13.0 kN