

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/3 059
OECD Approval Date	06/06/2017
Make	John Deere
Model	6120M
Type	4 WD
Transmission	PowerQuad
Speed	40 km/h
Manufacturer	John Deere GmbH &Co. KG
Testing Station	DLG e.V. – Germany



SPECIFICATIONS

ENGINE

<i>Make</i>	John Deere Power System
<i>Model</i>	4045HL500B
<i>Type</i>	Direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	4
<i>Disposition</i>	in line
<i>Capacity</i>	4525 cm ³
<i>Cooling</i>	Liquid

TRANSMISSION

<i>Gear box</i>	PowerQuad
<i>Number of forward and reverse speeds</i>	24
<i>Speed at rated engine speed</i>	from 1,50 to 38,02 km/h

POWER TAKE-OFF SPECIFICATIONS

<i>Standard Power take-off speed</i>	<u>540 min⁻¹</u>	<u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>	577 min ⁻¹	1071 min ⁻¹
<i>Diameter of the shaft</i>	35 mm	35 mm
<i>Number of splines</i>	6	21

PTO TEST RESULTS

One hour test at maximum power

Power, Engine and Power take-off speed	78,45 kW	1800 min ⁻¹	917 min ⁻¹
Hourly and specific consumption		22,82 l/h	244 g/kWh
Hourly and specific urea consumption		0,61 l/h	8,5 g/kWh

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	73,21 kW	2100 min ⁻¹	1070 min ⁻¹
Hourly and specific consumption		23,49 l/h	269 g/kWh
Hourly and specific urea consumption		0,5 l/h	7,4 g/kWh

Test at standard Power take-off speed

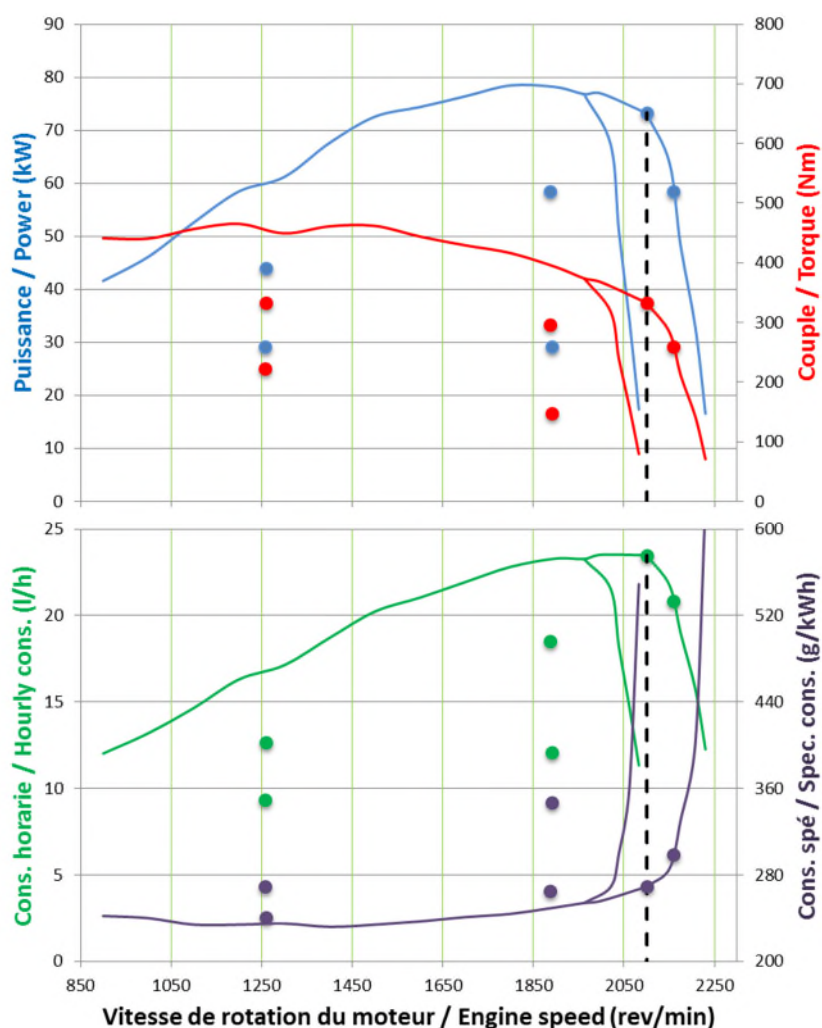
Power, Engine and Power take-off speed	76,8 kW	1962 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		23,3 l/h	254 g/kWh
Hourly and specific urea consumption		0,63 l/h	8,9 g/kWh

Torque rise

39,7 %

Maximum torque, Engine speed corresponding

465,2 Nm

1200 min⁻¹

PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

Not applicable

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system

closed centre

Relief valve pressure setting (tolerance):

20,5 ± 0,5 MPa

HYDRAULIC PERFORMANCES

At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	110,6 l/min	16,3 MPa	30,1 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	111,4 l/min	18,0 MPa	33,4 kW

POWER LIFT

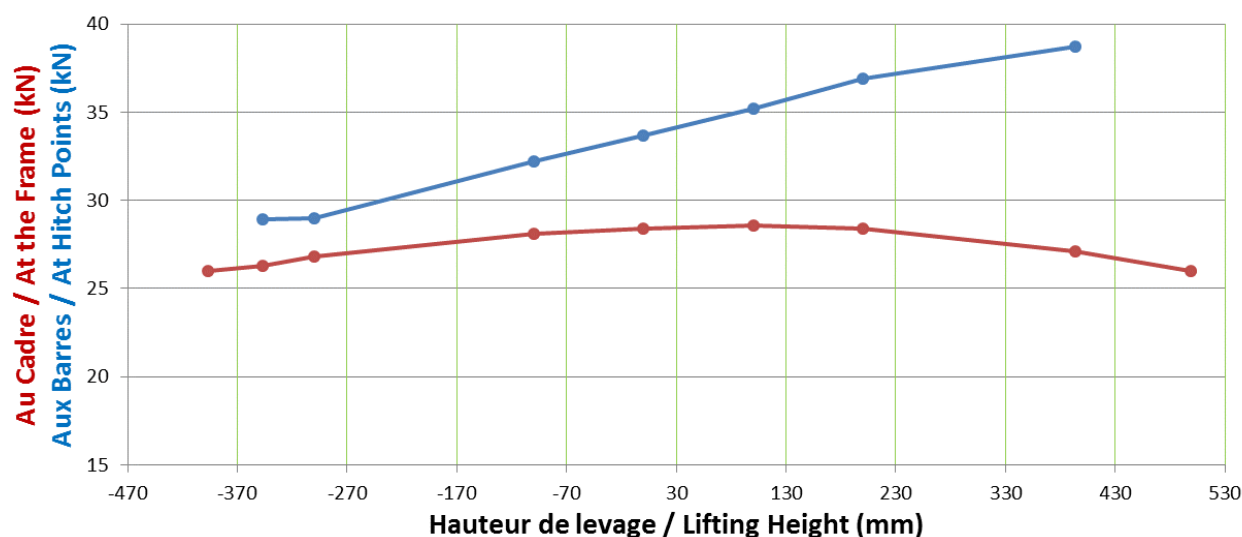
Maximum lifting force

at the hitch points

28,9 kN

at the frame

26,0 kN

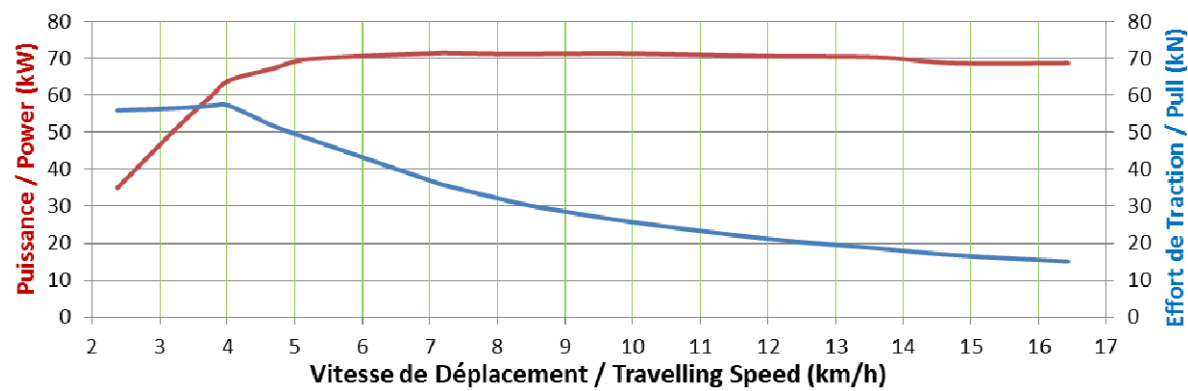


DRAWBAR TEST

Front tyres, Rear tyres	420/70R24	480/70R38
Inflation pressure	80 kPa	80 kPa

UNBALLASTED

Total Mass	5670 kg
Maximum drawbar pull	57,21 kN
at speed of	3,78 km/h
Maximum power	71,5 kW
at speed of	7,22 km/h



BALLASTED

Not applicable