

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/3 024
OECD Approval Date	28/02/2017
Make	JOHN DEERE
Model	6120E
Type	4 WD
Transmission	PowrReverser
Speed	30 km/h
Manufacturer	John Deere Tractor Works
Testing Station	NTTL – U.S.A.



SPECIFICATIONS

ENGINE

<i>Make</i>	John Deere
<i>Model</i>	4045HP056
<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>		PowrReverser
<i>Number of forward and reverse speeds</i>	12	12
<i>Speed at rated engine speed</i>	from 2,90	to 29,01 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>	570 min ⁻¹	1065 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	80,90 kW	1950 min ⁻¹	944 min ⁻¹
Hourly and specific consumption		23,70 l/h	246 g/kWh
Hourly and specific urea consumption		0,77 l/h	10,4 g/kWh

Test at maximum power at rated engine speed

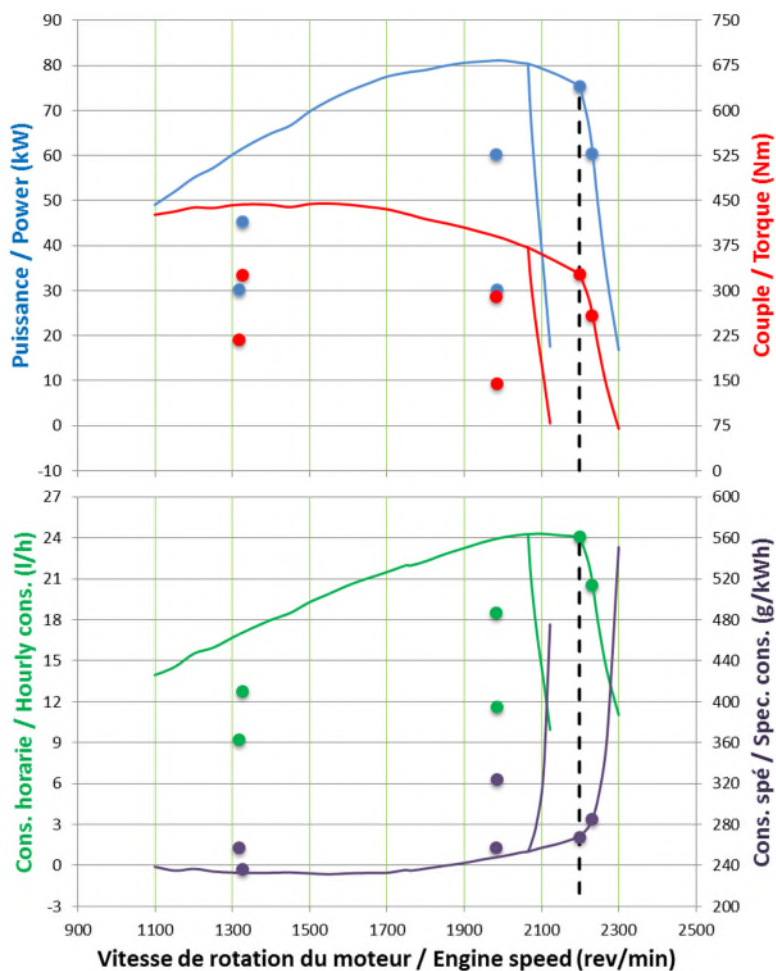
Power, Engine and Power take-off speed	75,46 kW	2199 min ⁻¹	1065 min ⁻¹
Hourly and specific consumption		24,10 l/h	268 g/kWh
Hourly and specific urea consumption		0,83 l/h	12,0 g/kWh

Test at standard Power take-off speed

Power, Engine and Power take-off speed	80,36 kW	2065 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		24,27 l/h	254 g/kWh
Hourly and specific urea consumption		0,82 l/h	11,1 g/kWh

Torque rise

			35,8 %
<u>Maximum torque, Engine speed corresponding</u>	445,0 Nm	1549 min ⁻¹	



PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

	kg	mm:ss
Rated Engine Speed	1,77	23:27
40% of maximum power at rated engine speed with throttle set to 90% of rated engine speed	1,51	25:17
60% of maximum power at rated engine speed with throttle set to 60% of rated engine speed	0,92	23:37

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system	Open centre
Relief valve pressure setting (tolerance):	19,5 ± 0,5 MPa

HYDRAULIC PERFORMANCES

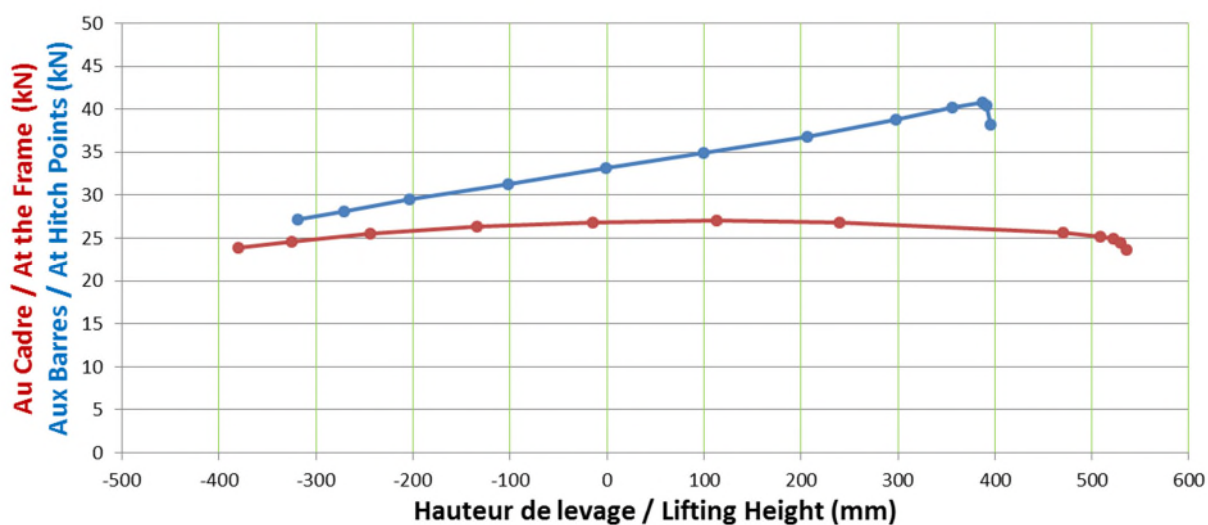
At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	77,3 l/min	15,13 MPa	19,5 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	77,0 l/min	16,57 MPa	21,3 kW

POWER LIFT

Maximum lifting force

at the hitch points	27,2 kN
at the frame	23,6 kN

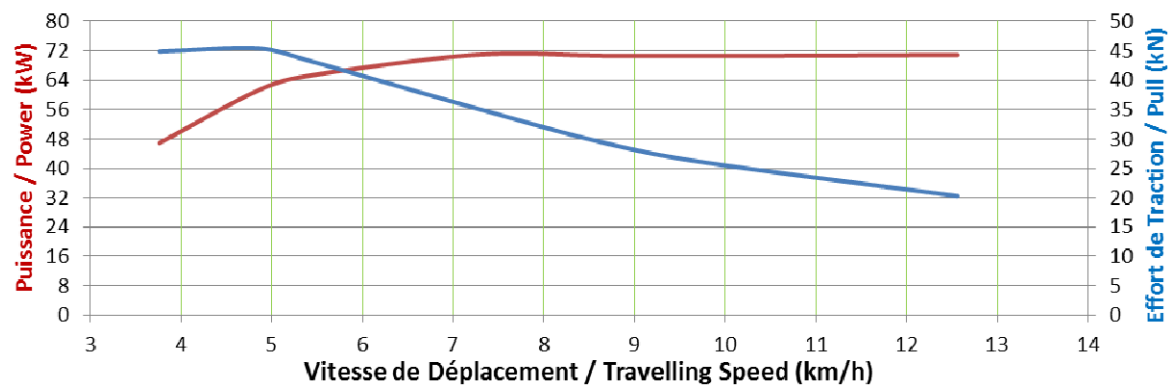


DRAWBAR TEST

Front tyres, Rear tyres	340/85R24	460/85R34
Inflation pressure	83 kPa	83 kPa

UNBALLASTED

Total Mass	4751 kg
Maximum drawbar pull	45,46 kN
at speed of	4,85 km/h
Maximum power	70,93 kW
at speed of	7,26 km/h



BALLASTED

Not Applicable