

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/3 001
OECD Approval Date	23/11/2016
Make	John Deere
Model	6145R
Type	4 WD
Transmission	AutoQuad
Speed	40 km/h
Manufacturer	John Deere Tractor Works
Testing Station	NTTL – USA



SPECIFICATIONS

ENGINE

<i>Make</i>	John Deere
<i>Model</i>	6068RW429
<i>Type</i>	Direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	6
<i>Disposition</i>	in line
<i>Capacity</i>	6788 cm ³
<i>Cooling</i>	Liquid

TRANSMISSION

<i>Gear box</i>	AutoQuad
<i>Number of forward and reverse speeds</i>	20
<i>Speed at rated engine speed</i>	from 2,57 to 42,00 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>	579 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	100,11 kW	1899 min ⁻¹	945 min ⁻¹
Hourly and specific consumption		29,62 l/h	248 g/kWh
Hourly and specific urea consumption		0,71 l/h	7,7 g/kWh

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	86,81 kW	2100 min ⁻¹	1045 min ⁻¹
Hourly and specific consumption		27,67 l/h	268 g/kWh
Hourly and specific urea consumption		0,70 l/h	8,8 g/kWh

Test at standard Power take-off speed

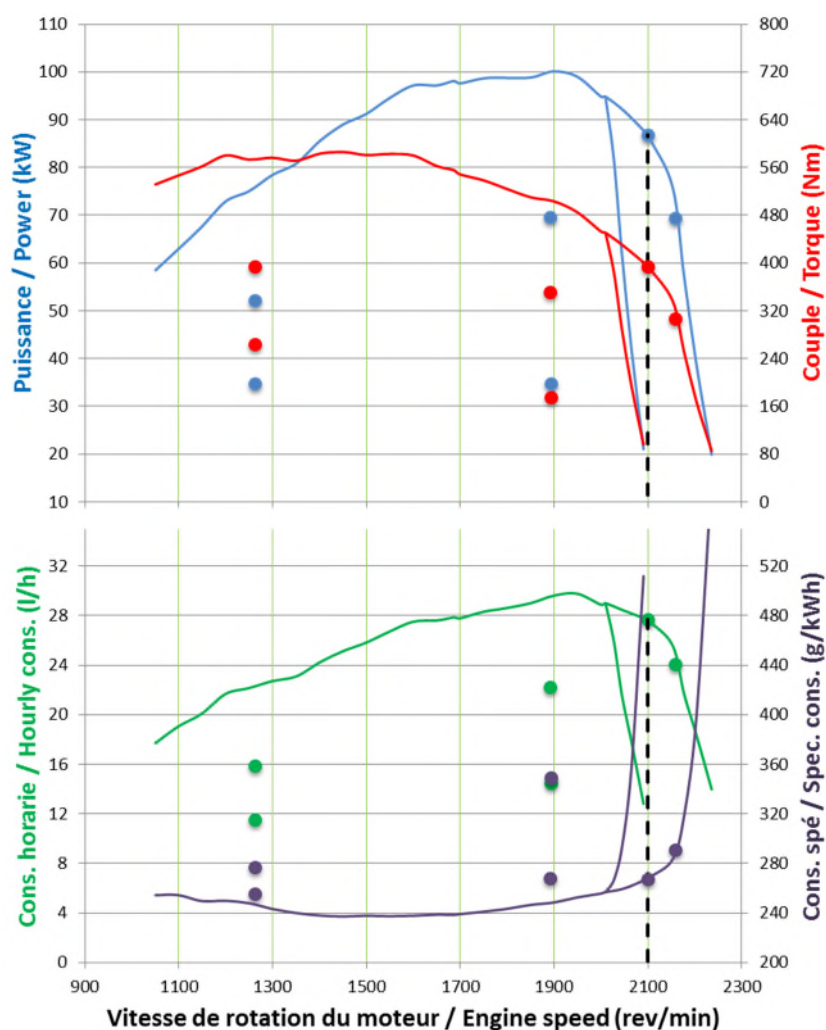
Power, Engine and Power take-off speed	94,82 kW	2010 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		29,00 l/h	257 g/kWh
Hourly and specific urea consumption		0,55 l/h	6.3 g/kWh

Torque rise

48,4 %

Maximum torque, Engine speed corresponding

586 Nm

1451 min⁻¹

PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

	l	mm:ss
Rated Engine Speed	3,4	34:35
40% of maximum power at rated engine speed with throttle set to 90% of rated engine speed	3.8	35:21
60% of maximum power at rated engine speed with throttle set to 60% of rated engine speed	2.3	35:18

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system	closed centre
Relief valve pressure setting (tolerance):	20,4 ± 0,3 MPa

HYDRAULIC PERFORMANCES

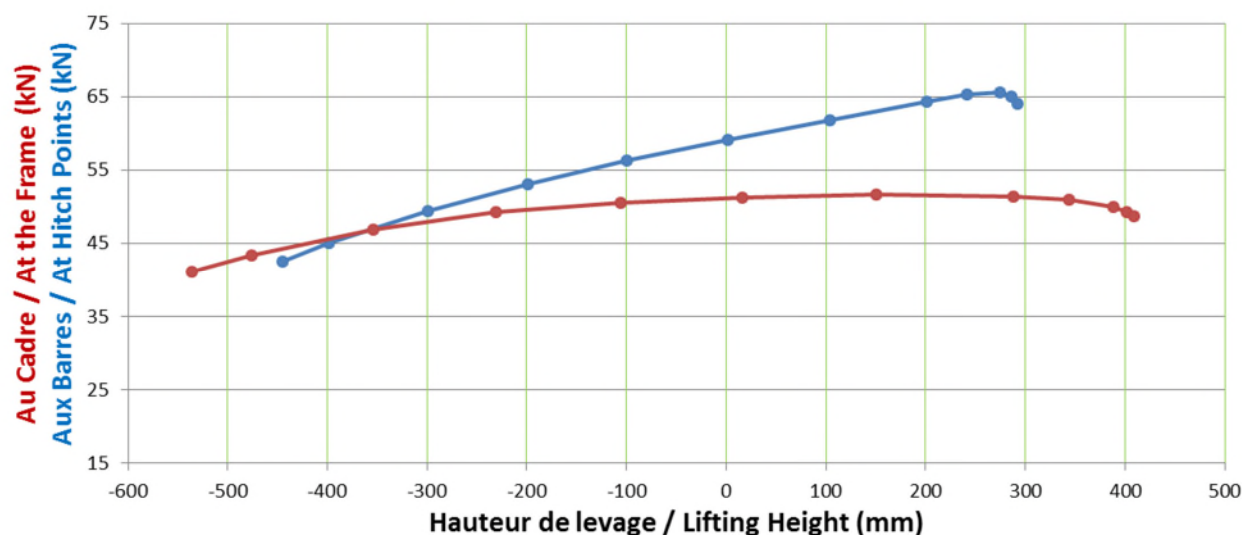
At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	114,5 l/min	15,83 MPa	30,2 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	110,0 l/min	19,23 MPa	35,3 kW

POWER LIFT

Maximum lifting force

at the hitch points	42,5 kN
at the frame	41,1 kN

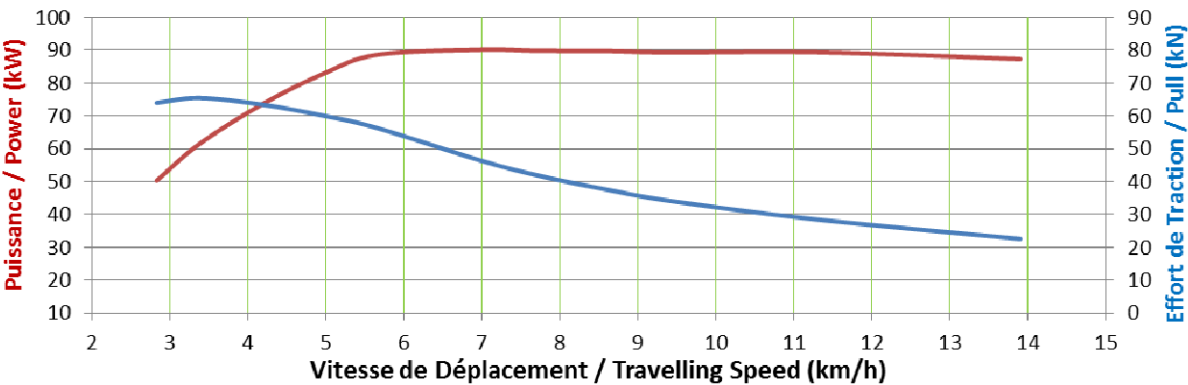


DRAWBAR TEST

Front tyres, Rear tyres	420/85R28	480/80R42
Inflation pressure	83 kPa	97 kPa

UNBALLASTED

Total Mass	6951 kg
Maximum drawbar pull	65,49 kN
at speed of	3,37 km/h
Maximum power	90,17 kW
at speed of	6,98 km/h



BALLASTED

Not applicable