

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/3 013
OECD Approval Date	20/12/2016
Make	John Deere
Model	8370R
Type	4WD with dual rear wheels
Transmission	e23
Speed	40 km/h
Manufacturer	John Deere Tractor Works
Testing Station	NTTL – USA



SPECIFICATIONS

ENGINE

<i>Make</i>	John Deere
<i>Model</i>	6090RW441
<i>Type</i>	Direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	6
<i>Disposition</i>	in line
<i>Capacity</i>	8984 cm ³
<i>Cooling</i>	Liquid

TRANSMISSION

<i>Gear box</i>	e23
<i>Number of forward and reverse speeds</i>	23
<i>Speed at rated engine speed</i>	from 2,40 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>		1052 min ⁻¹
<i>Diameter of the shaft</i>	Not	45 mm
<i>Number of splines</i>	applicable	20

PTO TEST RESULTS

One hour test at maximum power

Power, Engine and Power take-off speed	279,88 kW	1849 min ⁻¹	927 min ⁻¹
Hourly and specific consumption		73,86 l/h	221 g/kWh
Hourly and specific urea consumption		1,17 l/h	4,5 g/kWh

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	248,73 kW	2099 min ⁻¹	1052 min ⁻¹
Hourly and specific consumption		66,68 l/h	225 g/kWh
Hourly and specific urea consumption		1,29 l/h	5,6 g/kWh

Test at standard Power take-off speed

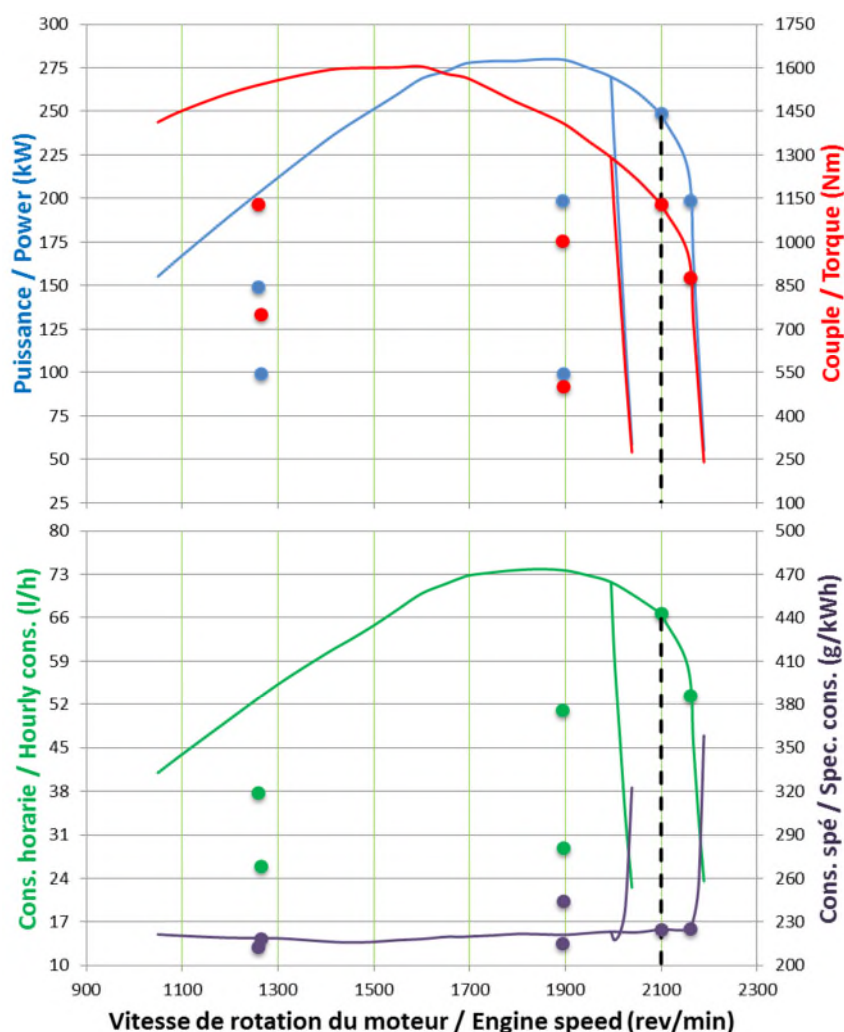
Power, Engine and Power take-off speed	269,82 kW	1995 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		71,75 l/h	223 g/kWh
Hourly and specific urea consumption		1,16 l/h	4,7 g/kWh

Torque rise

41,8 %

Maximum torque, Engine speed corresponding

1605 Nm

1600 min⁻¹

PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

	l	mm:ss
Rated Engine Speed	3.6	37:28
40% of maximum power at rated engine speed with throttle set to 90% of rated engine speed	3.8	39:38
60% of maximum power at rated engine speed with throttle set to 60% of rated engine speed	3.0	39:11

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

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

HYDRAULIC PERFORMANCES

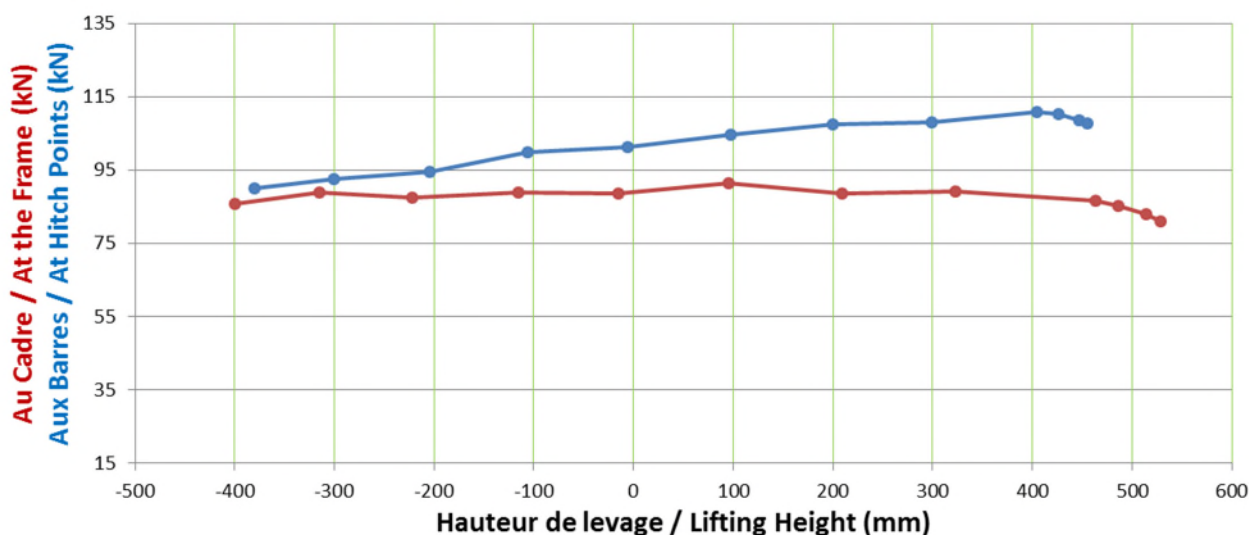
At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	135,1 l/min	16,48 MPa	37,1 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	230,3 l/min	17,57 MPa	67,5 kW

POWER LIFT

Maximum lifting force

<i>at the hitch points</i>	90,0 kN
<i>at the frame</i>	81,1 kN

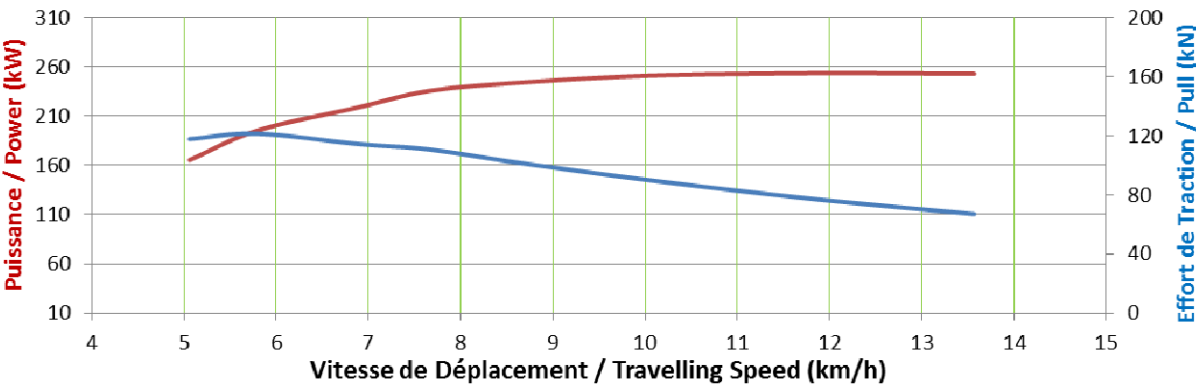


DRAWBAR TEST

Front tyres, Rear tyres	420/85R34	480/80R50
Inflation pressure	179 kPa	83 kPa

UNBALLASTED

Total Mass	12533 kg
Maximum drawbar pull	121,39 kN
at speed of	5,79 km/h
Maximum power	253,44 kW
at speed of	11,76 km/h



BALLASTED

Total Mass	18195 kg
Maximum drawbar pull	179,45 kN
at speed of	3,75 km/h
Maximum power	253,29 kW
at speed of	10,18 km/h

