

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/3 019
OECD Approval Date	19/01/2017
Make	John Deere
Model	8370RT
Type	Rubber Tracklaying Tractor
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 2,24 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	268,10 kW	1851 min ⁻¹	928 min ⁻¹
Hourly and specific consumption		72,66 l/h	227 g/kWh
Hourly and specific urea consumption		1,51 l/h	6,1 g/kWh

Test at maximum power at rated engine speed

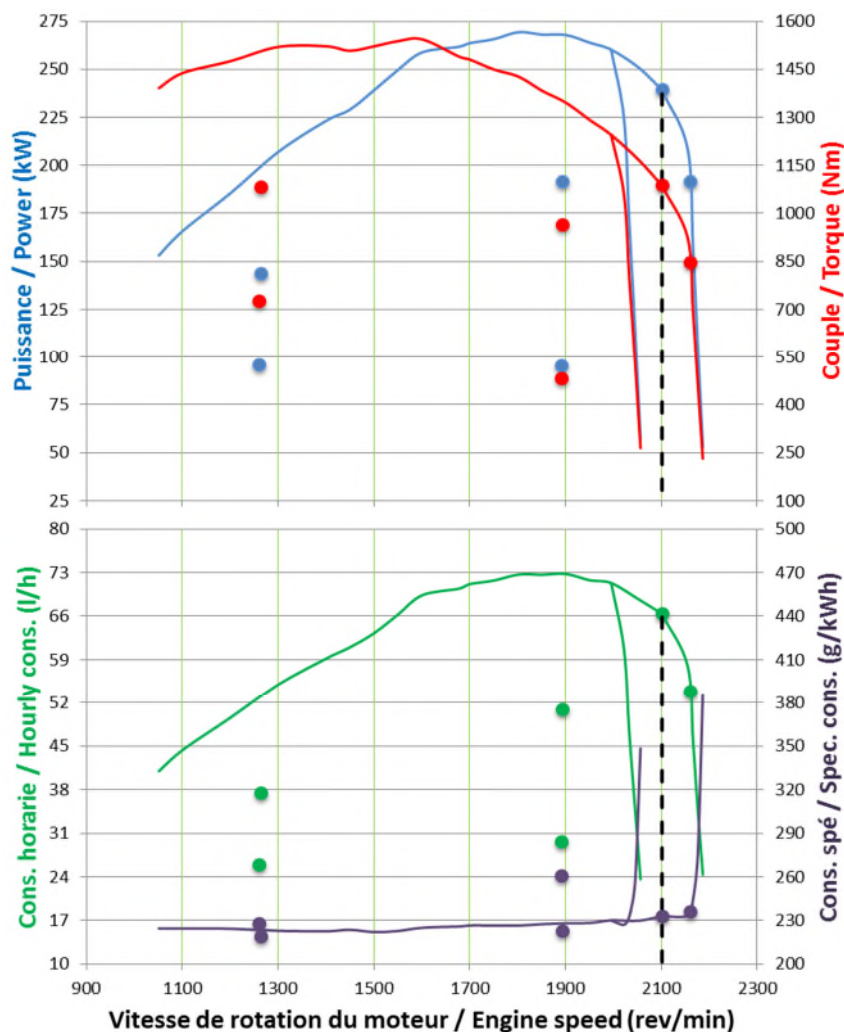
Power, Engine and Power take-off speed	239,36 kW	2101 min ⁻¹	1053 min ⁻¹
Hourly and specific consumption		66,43 l/h	233 g/kWh
Hourly and specific urea consumption		1,21 l/h	5,5 g/kWh

Test at standard Power take-off speed

Power, Engine and Power take-off speed	260,22 kW	1995 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		71,33 l/h	230 g/kWh
Hourly and specific urea consumption		1,30 l/h	5,4 g/kWh

Torque rise

			41,9 %
<u>Maximum torque, Engine speed corresponding</u>	1554 Nm	1601 min ⁻¹	



PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

	l	mm:ss
Rated Engine Speed	4.2	37:59
40% of maximum power at rated engine speed with throttle set to 90% of rated engine speed	3.8	39:58
60% of maximum power at rated engine speed with throttle set to 60% of rated engine speed	3.0	39:37

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

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

HYDRAULIC PERFORMANCES

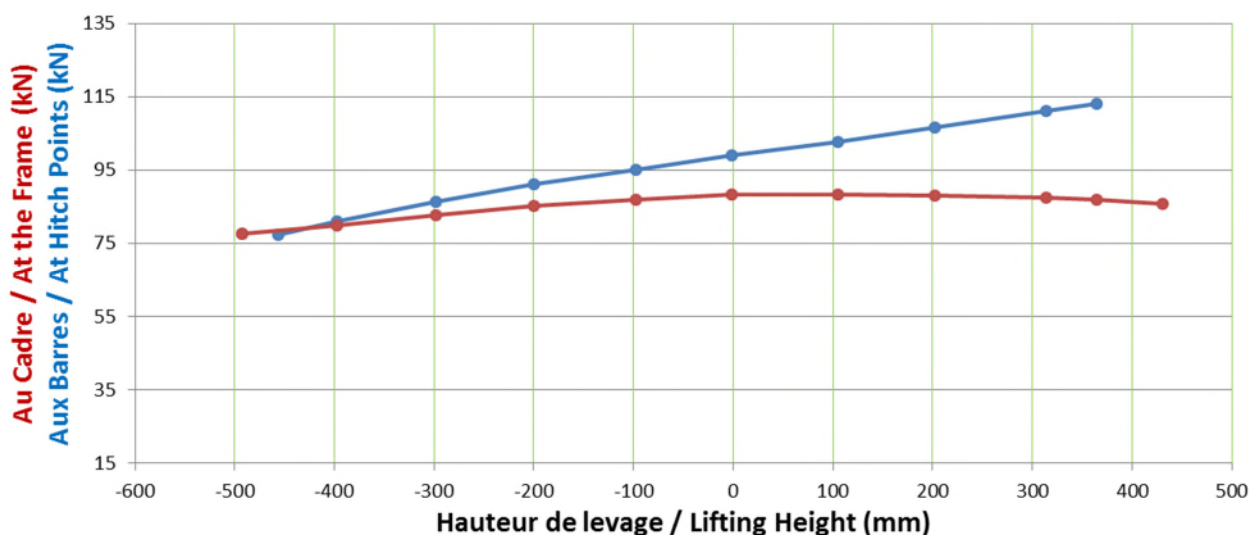
At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	157,7 l/min	15,67 MPa	41,2 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	124,5 l/min	16,45 MPa	34,1 kW

POWER LIFT

Maximum lifting force

at the hitch points	77,3 kN
at the frame	77,6 kN



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