

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/3 010
OECD Approval Date	05/12/2016
Make	John Deere
Model	8320RT
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>	<i>Not</i>	45 mm
<i>Number of splines</i>	<i>applicable</i>	20

PTO TEST RESULTS

One hour test at maximum power

Power, Engine and Power take-off speed	236,00 kW	1800 min ⁻¹	902 min ⁻¹
Hourly and specific consumption		62,55 l/h	222 g/kWh
Hourly and specific urea consumption		1,47 l/h	6,8 g/kWh

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	207,88 kW	2101 min ⁻¹	1053 min ⁻¹
Hourly and specific consumption		57,65 l/h	233 g/kWh
Hourly and specific urea consumption		1,27 l/h	6,6 g/kWh

Test at standard Power take-off speed

Power, Engine and Power take-off speed	224,46 kW	1995 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		61,00 l/h	228 g/kWh
Hourly and specific urea consumption		1,35 l/h	6,6 g/kWh

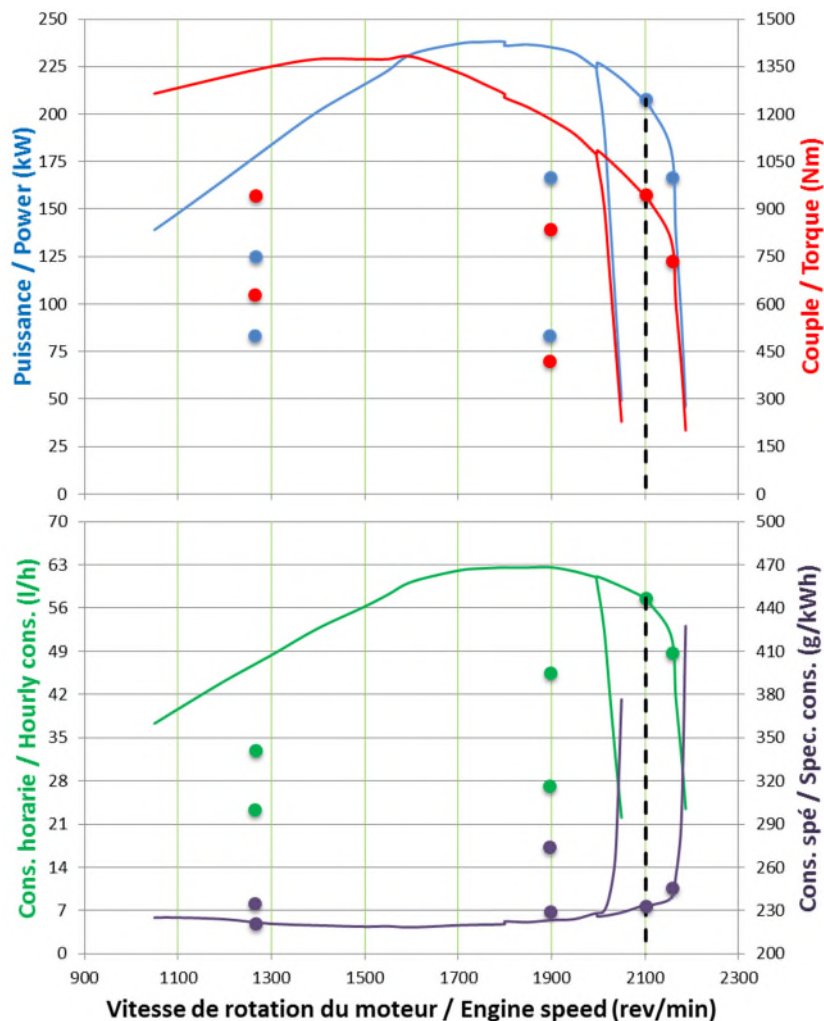
Torque rise

46,2 %

Maximum torque, Engine speed corresponding

1381 Nm

1601 min⁻¹



PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

	l	mm:ss
Rated Engine Speed	3.0	38:13
40% of maximum power at rated engine speed with throttle set to 90% of rated engine speed	3.9	40:37
60% of maximum power at rated engine speed with throttle set to 60% of rated engine speed	2.9	39:32

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

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

HYDRAULIC PERFORMANCES

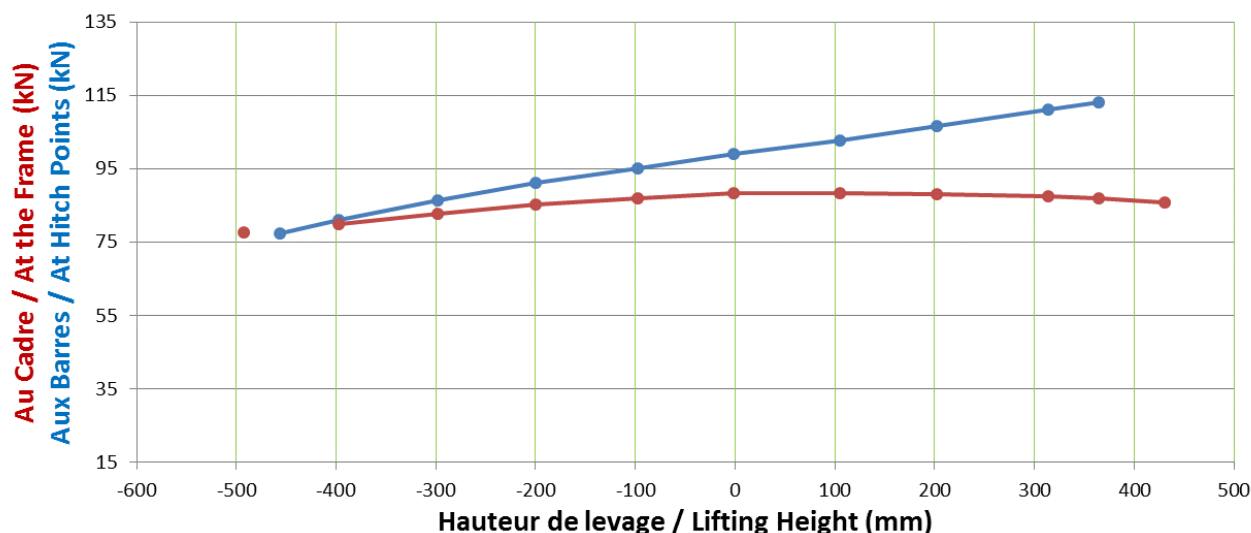
At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	129,7 l/min	16,44 MPa	35,5 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	233,8 l/min	17,64 MPa	68,7 kW

POWER LIFT

Maximum lifting force

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



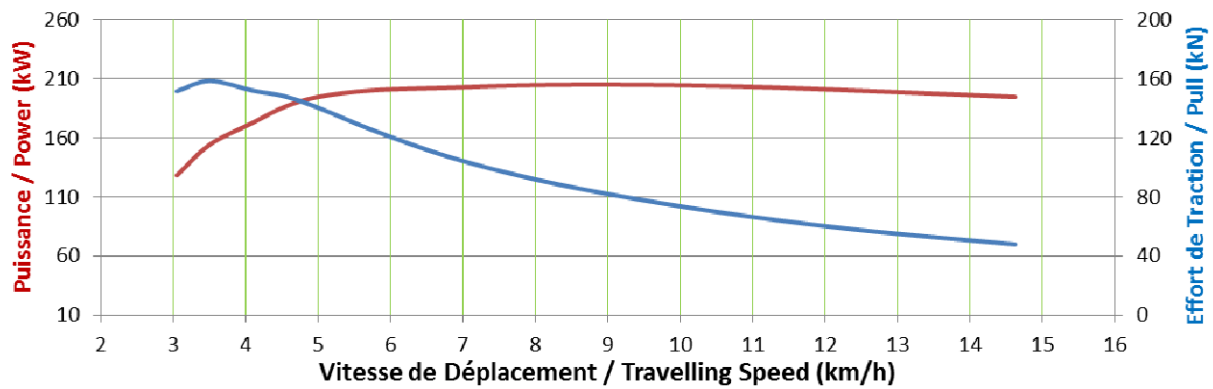
DRAWBAR TEST

Front tyres, Rear tyres
Inflation pressure

Rubber with steel reinforcement
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UNBALLASTED

Total Mass	16010 kg
Maximum drawbar pull at speed of	158,43 kN 3,50 km/h
Maximum power at speed of	204,79 kW 9,35 km/h



BALLASTED

Not applicable