

# OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

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<b>OECD Approval Number</b>	<b>2/2 919</b>
<b>OECD Approval Date</b>	<b>14/01/2016</b>
<b>Make</b>	<b>John Deere</b>
<b>Model</b>	<b>7310R</b>
<b>Type</b>	<b>4WD with rear dual wheels</b>
<b>Transmission</b>	<b>e 23 Full PowerShift</b>
<b>Speed</b>	<b>40 km/h</b>
<b>Manufacturer</b>	<b>John Deere Tractor Works</b>
<b>Testing Station</b>	<b>NTTL – U.S.A.</b>



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## SPECIFICATIONS

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### ENGINE

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<i>Make</i>	John Deere	
<i>Model</i>	6090RW431	
<i>Type</i>	Direct injection	
<i>Supercharging</i>	Yes	
<i>Cylinders</i>	6	
<i>Disposition</i>	vertical in line	
<i>Capacity</i>	8984 cm <sup>3</sup>	
<i>Cooling</i>	Liquid	

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### TRANSMISSION

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<i>Gear box</i>	e23 PST	
<i>Number of forward and reverse speeds</i>	23	12
<i>Speed at rated engine speed</i>	from 2,42	to 42,00 km/h

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### POWER TAKE-OFF SPECIFICATIONS

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<i>Standard Power take-off speed</i>	<u>540 min<sup>-1</sup></u>	<u>1000 min<sup>-1</sup></u>
<i>Power take-off speed at rated engine speed</i>		1077 min <sup>-1</sup>
<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	231,04 kW	1751 min <sup>-1</sup>	898 min <sup>-1</sup>
Hourly and specific consumption		60,71 l/h	221 g/kWh
Hourly and specific urea consumption		1,29 l/h	6,1 g/kWh-

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	203,13 kW	2100 min <sup>-1</sup>	1077 min <sup>-1</sup>
Hourly and specific consumption		55,90 l/h	232 g/kWh
Hourly and specific urea consumption		1,18 l/h	6,3 g/kWh-

Test at standard Power take-off speed

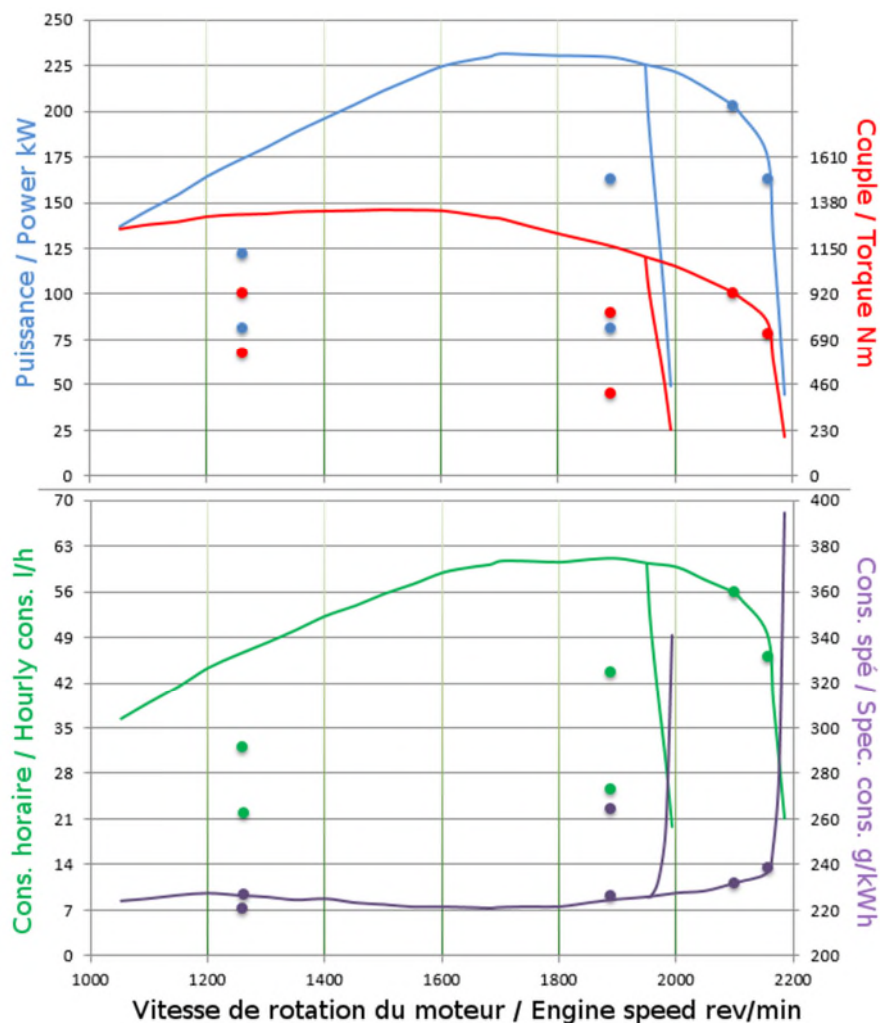
Power, Engine and Power take-off speed	225,50 kW	1950 min <sup>-1</sup>	1000 min <sup>-1</sup>
Hourly and specific consumption		60,41 l/h	226 g/kWh
Hourly and specific urea consumption		1,23 l/h	5,9 g/kWh-

Torque rise

45,5 %

Maximum torque, Engine speed corresponding

1343,78 Nm

1500 min<sup>-1</sup>

## PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

	l	mm:ss
Rated Engine Speed	4,3	37:53
40% of maximum power at rated engine speed with throttle set to 90% of rated engine speed	4,3	39:39
60% of maximum power at rated engine speed with throttle set to 60% of rated engine speed	2,5	38:48

## HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system	Closed centre
Relief valve pressure setting (tolerance):	20,2 ± 0,5 MPa

### HYDRAULIC PERFORMANCES

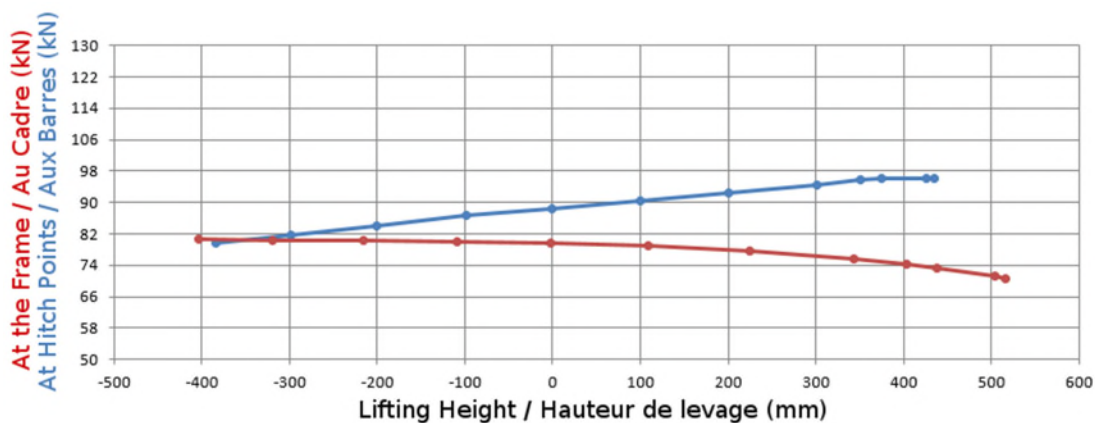
#### At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	134,0 l/min	18,89 MPa	42,2 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	165,9 l/min	19,24 MPa	53,2 kW

### POWER LIFT

#### Maximum lifting force

at the hitch points	79,5 kN
at the frame	70,7 kN

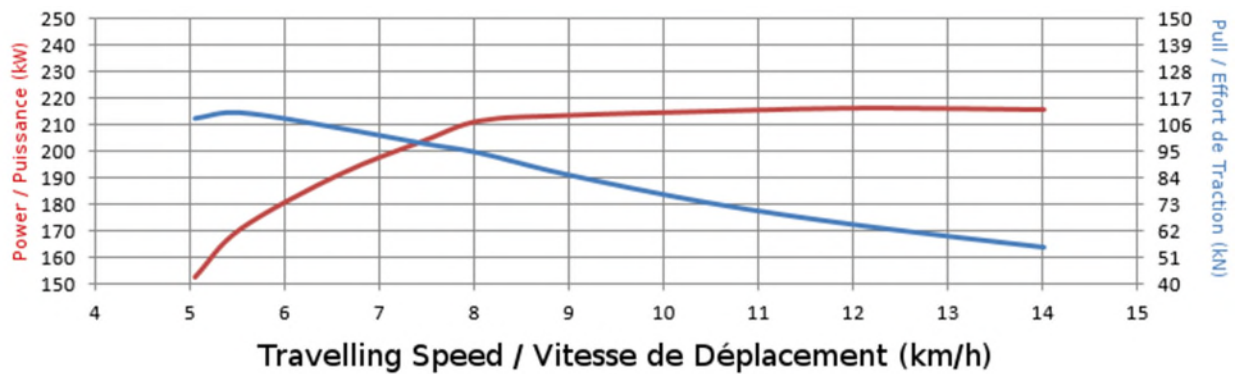


**DRAWBAR TEST**

Front tyres, Rear tyres	420/85 R34	480/80 R50
Inflation pressure	117 kPa	83 kPa

**UNBALLASTED**

Total Mass	11231 kg
Maximum drawbar pull at speed of	111,11 kN 5,53 km/h
Maximum power at speed of	215,98 kW 12,06 km/h



**BALLASTED**

Total Mass	14354 kg
Maximum drawbar pull at speed of	138,42 kN 4,28 km/h
Maximum power at speed of	213,62 kW 12,15 km/h

