

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/2 851
OECD Approval Date	27/11/2014
Make	John Deere
Model	7290R
Type	4 WD
Transmission	e23 Full Powershift
Speed	40 km/h
Manufacturer	John Deere Tractor Works
Testing Station	NTTL – U.S.A.



SPECIFICATIONS

ENGINE

<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 ³
<i>Cooling</i>	Liquid

TRANSMISSION

<i>Gear box</i>	e23 Full Powershift
<i>Number of forward and reverse speeds</i>	23 12
<i>Speed at rated engine speed</i>	from 2,35 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>	- min ⁻¹	1077 min ⁻¹
<i>Diameter of the shaft</i>	45 mm	45 mm
<i>Number of splines</i>	6	20

PTO TEST RESULTS

One hour test at maximum power

Power, Engine and Power take-off speed	210,79 kW	1751 min ⁻¹	898 min ⁻¹
Hourly and specific consumption		55,49 l/h	221 g/kWh
Hourly and specific urea consumption		1,00 l/h	5,1 g/kWh-

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	186,39 kW	2100 min ⁻¹	1077 min ⁻¹
Hourly and specific consumption		51,49 l/h	232 g/kWh
Hourly and specific urea consumption		0,91 l/h	5,3 g/kWh-

Test at standard Power take-off speed

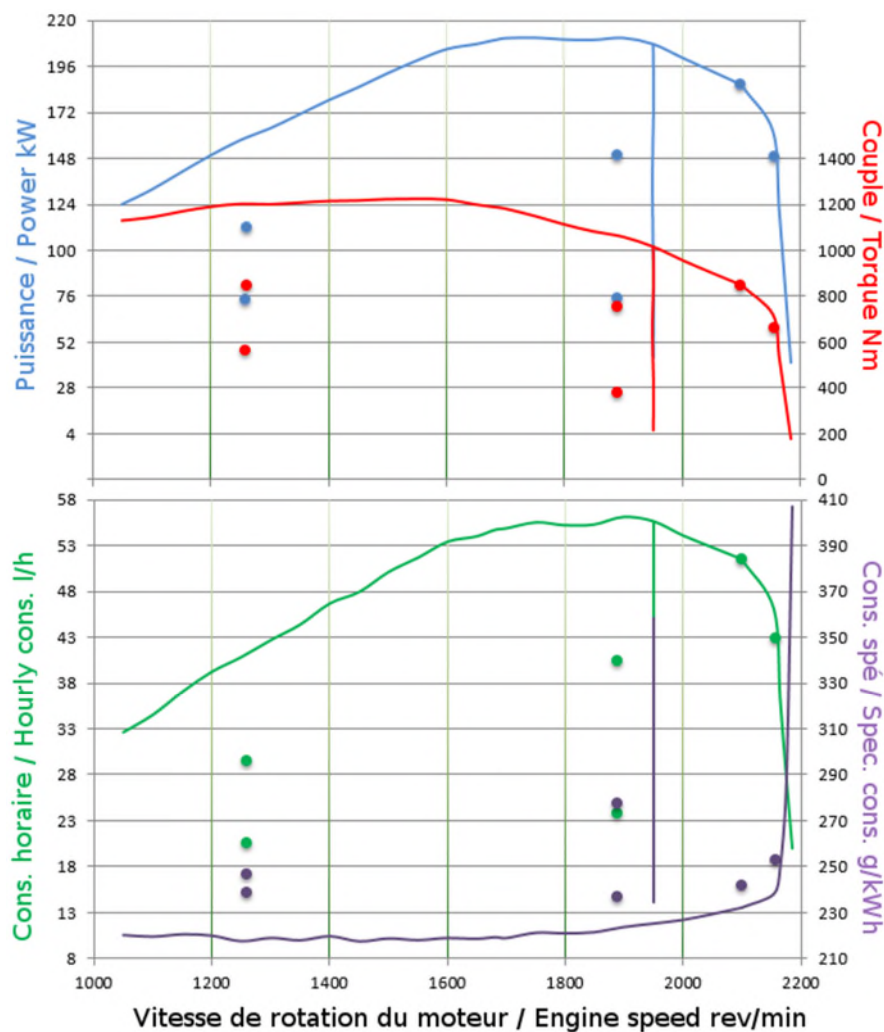
Power, Engine and Power take-off speed	207,52 kW	1950 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		55,62 l/h	225 g/kWh
Hourly and specific urea consumption		1,02 l/h	5,3 g/kWh-

Torque rise

44,7 %

Maximum torque, Engine speed corresponding

1226,1 Nm

1550 min⁻¹

PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

	l	mm:ss
Rated Engine Speed	3,2	38:34
40% of maximum power at rated engine speed with throttle set to 90% of rated engine speed	4,8	40:21
60% of maximum power at rated engine speed with throttle set to 60% of rated engine speed	2,5	40:09

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

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

HYDRAULIC PERFORMANCES

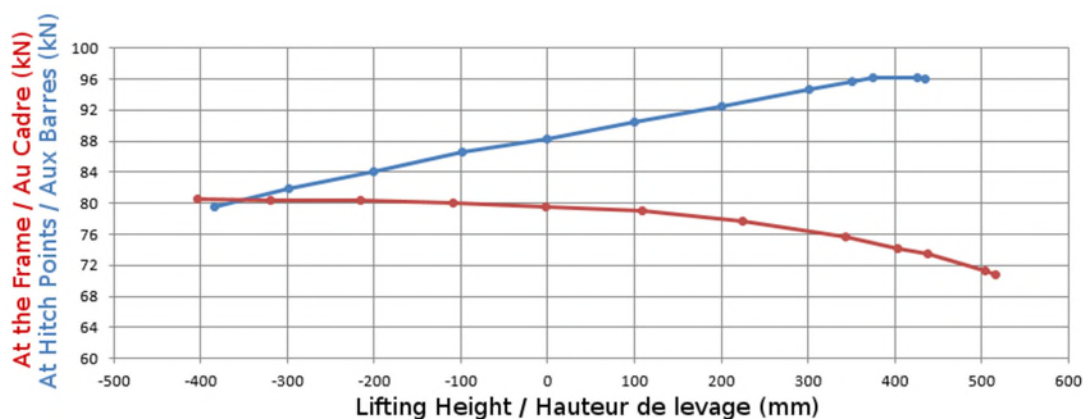
At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	127,9 l/min	16,29 MPa	34,7 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	165,3 l/min	19,05 MPa	52,5 kW

POWER LIFT

Maximum lifting force

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

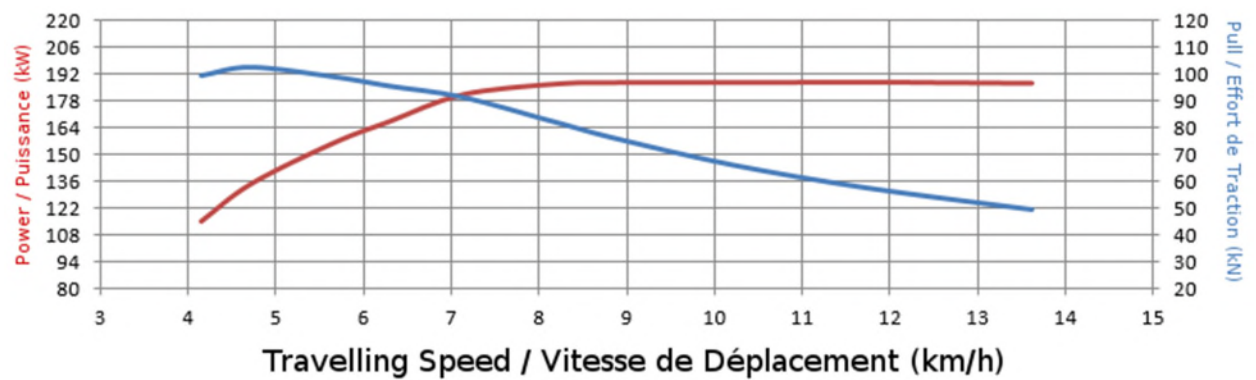


DRAWBAR TEST

Front tyres, Rear tyres	420/90 R30	480/80 R46
Inflation pressure	103 kPa	83 kPa

UNBALLASTED

Total Mass	10929 kg
Maximum drawbar pull	102,83 kN
at speed of	4,73 km/h
Maximum power	188,17 kW
at speed of	11,75 km/h



BALLASTED

Total Mass	13805 kg
Maximum drawbar pull	126,99 kN
at speed of	4,14 km/h
Maximum power	188,55 kW
at speed of	8,85 km/h

