

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/2 847
OECD Approval Date	27/11/2014
Make	John Deere
Model	7290R
Type	4 WD
Transmission	IVT
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>	IVT
<i>Number of forward and reverse speeds</i>	-
<i>Speed at rated engine speed</i>	from 0,00 to 40,00 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	208,84 kW	1751 min ⁻¹	898 min ⁻¹
Hourly and specific consumption		55,63 l/h	224 g/kWh
Hourly and specific urea consumption		1,24 l/h	6,5 g/kWh-

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	183,43 kW	2100 min ⁻¹	1077 min ⁻¹
Hourly and specific consumption		51,97 l/h	238 g/kWh
Hourly and specific urea consumption		1.08 l/h	6.4 g/kWh-

Test at standard Power take-off speed

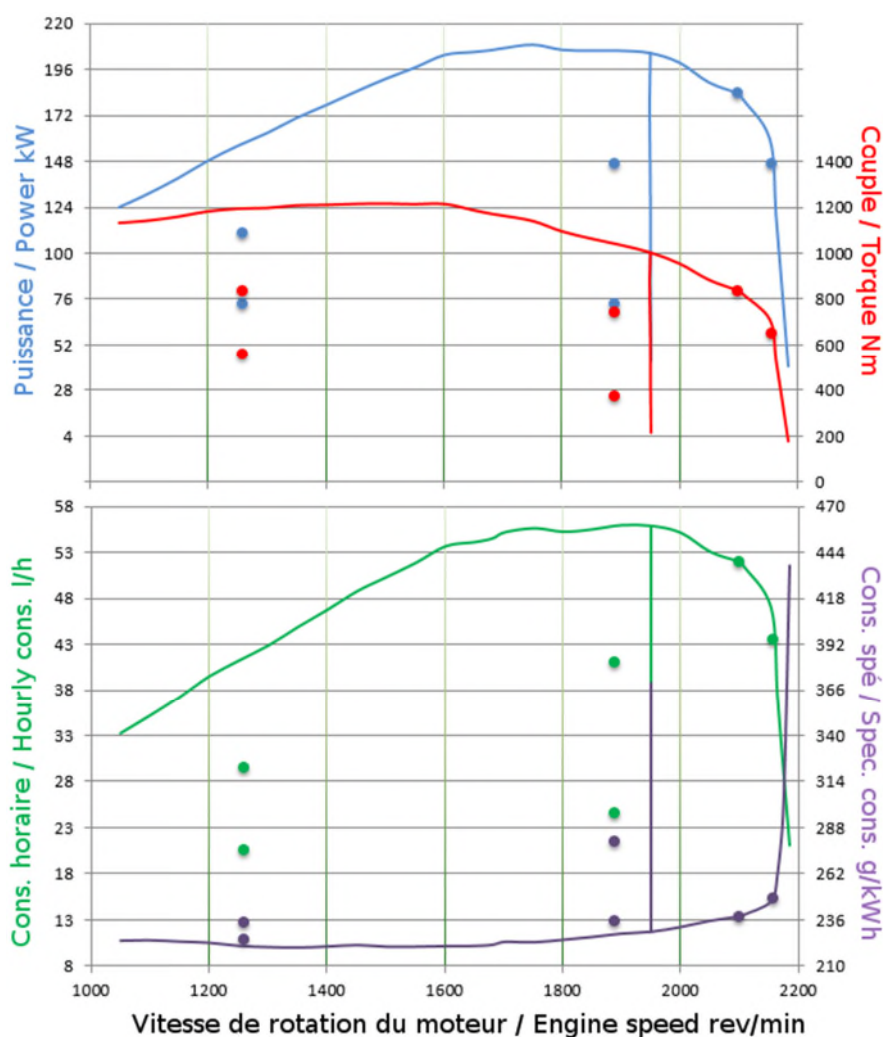
Power, Engine and Power take-off speed	204,48 kW	1950 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		55,89 l/h	229 g/kWh
Hourly and specific urea consumption		1.24 l/h	6.6 g/kWh-

Torque rise

45,7 %

Maximum torque, Engine speed corresponding

1215,3 Nm

1500 min⁻¹

PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

	l	mm:ss
Rated Engine Speed	3,5	38:18
40% of maximum power at rated engine speed with throttle set to 90% of rated engine speed	4,4	40:42
60% of maximum power at rated engine speed with throttle set to 60% of rated engine speed	2,4	38:14

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

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

HYDRAULIC PERFORMANCES

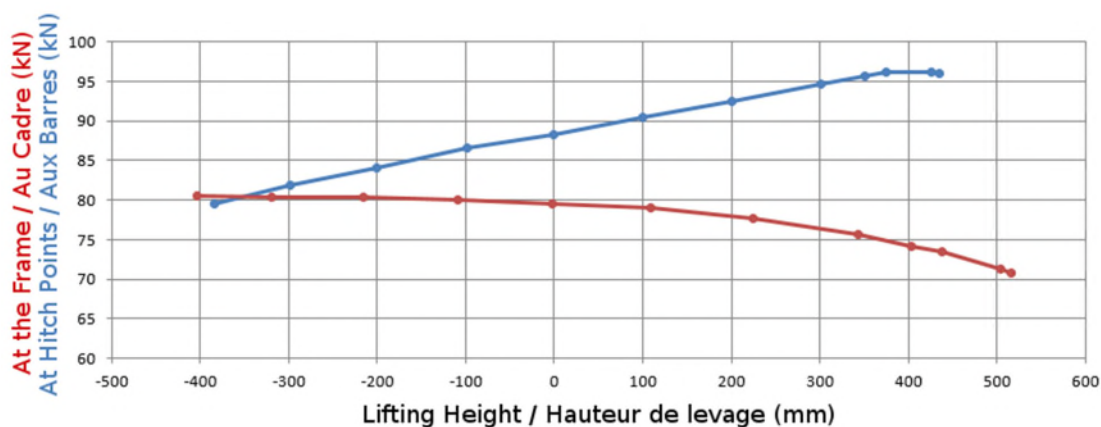
At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	134,5 l/min	15,85 MPa	35,5 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	164,0 l/min	19,04 MPa	52,0 kW

POWER LIFT

Maximum lifting force

<i>at the hitch points</i>	79,5 kN
<i>at the frame</i>	70,7 kN

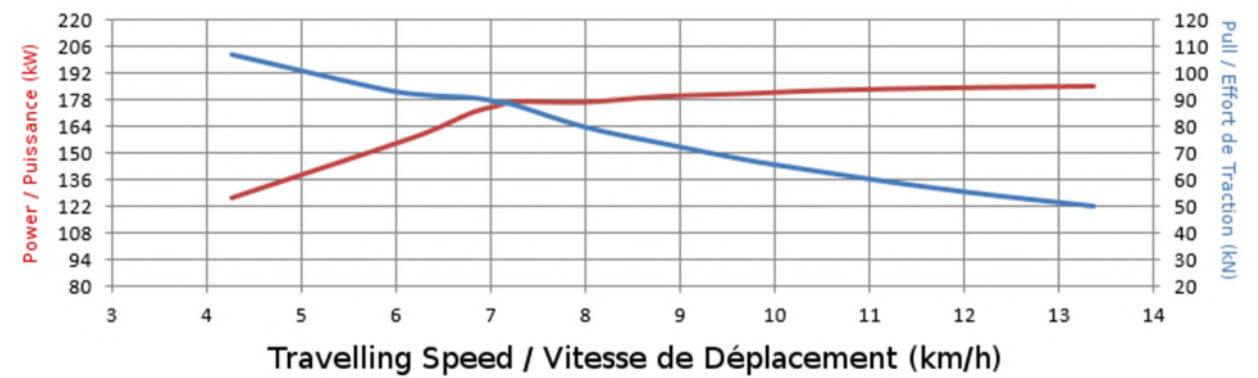


DRAWBAR TEST

Front tyres, Rear tyres	420/90 R30	480/80 R46
Inflation pressure	83 kPa	110 kPa

UNBALLASTED

Total Mass	11018 kg
Maximum drawbar pull	106,97 kN
at speed of	4,27 km/h
Maximum power	185,34 kW
at speed of	13,36 km/h



BALLASTED

Total Mass	13862 kg
Maximum drawbar pull	126,16 kN
at speed of	3,81 km/h
Maximum power	186,26 kW
at speed of	13,26 km/h

