

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

| | |
|-----------------------------|-------------------------|
| OECD Approval Number | 2/3 058 |
| OECD Approval Date | 06/06/2017 |
| Make | John Deere |
| Model | 6110M |
| Type | 4 WD |
| Transmission | PowerQuad |
| Speed | 40 km/h |
| Manufacturer | John Deere GmbH &Co. KG |
| Testing Station | DLG e.V. – Germany |



SPECIFICATIONS

ENGINE

| | |
|----------------------|-------------------------|
| <i>Make</i> | John Deere Power System |
| <i>Model</i> | 4045HL500A |
| <i>Type</i> | Direct injection |
| <i>Supercharging</i> | Yes |
| <i>Cylinders</i> | 4 |
| <i>Disposition</i> | in line |
| <i>Capacity</i> | 4525 cm ³ |
| <i>Cooling</i> | Liquid |

TRANSMISSION

| | |
|---|-------------------------|
| <i>Gear box</i> | PowerQuad |
| <i>Number of forward and reverse speeds</i> | 24 |
| <i>Speed at rated engine speed</i> | from 1,50 to 38,02 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> | 577 min ⁻¹ | 1071 min ⁻¹ |
| <i>Diameter of the shaft</i> | 35 mm | 35 mm |
| <i>Number of splines</i> | 6 | 21 |

PTO TEST RESULTS

One hour test at maximum power

| | | | |
|--|----------|------------------------|-----------------------|
| Power, Engine and Power take-off speed | 71,12 kW | 1800 min ⁻¹ | 917 min ⁻¹ |
| Hourly and specific consumption | | 21,14 l/h | 249 g/kWh |
| Hourly and specific urea consumption | | 0,56 l/h | 8,6 g/kWh |

Test at maximum power at rated engine speed

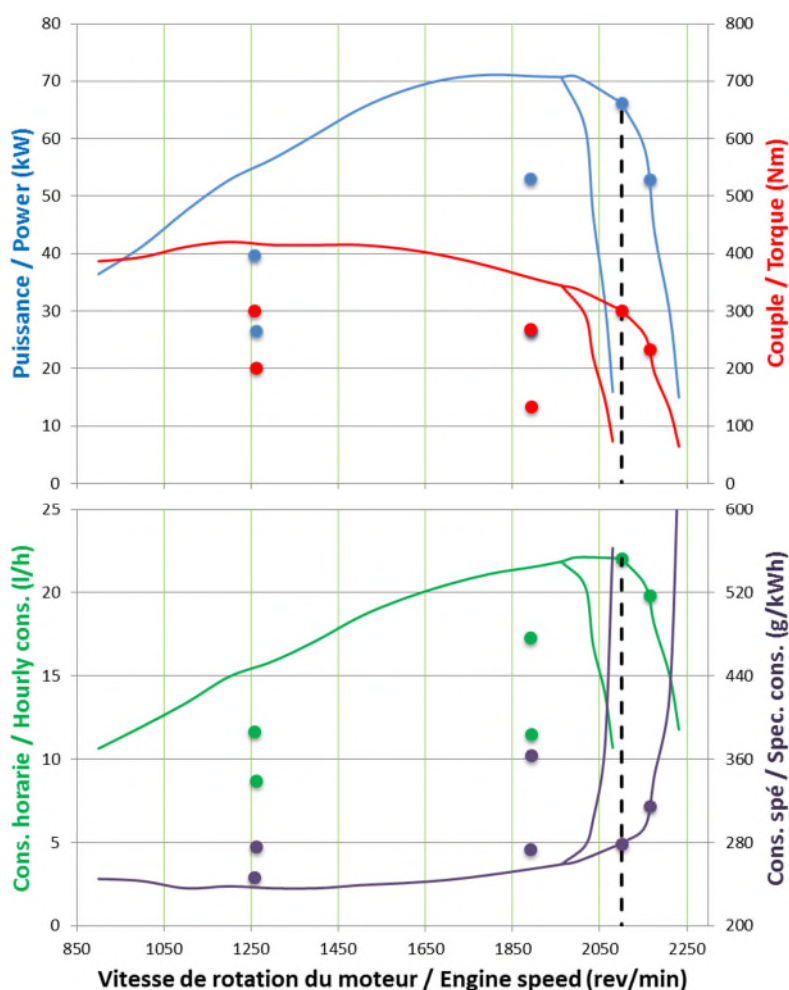
| | | | |
|--|----------|------------------------|------------------------|
| Power, Engine and Power take-off speed | 66,25 kW | 2100 min ⁻¹ | 1070 min ⁻¹ |
| Hourly and specific consumption | | 22,06 l/h | 279 g/kWh |
| Hourly and specific urea consumption | | 0,43 l/h | 7,1 g/kWh |

Test at standard Power take-off speed

| | | | |
|--|---------|------------------------|------------------------|
| Power, Engine and Power take-off speed | 70,7 kW | 1962 min ⁻¹ | 1000 min ⁻¹ |
| Hourly and specific consumption | | 21,9 l/h | 259 g/kWh |
| Hourly and specific urea consumption | | 0,51 l/h | 7,9 g/kWh |

Torque rise

| | | | |
|---|--|----------|------------------------|
| | | | 39,5 % |
| <u>Maximum torque, Engine speed corresponding</u> | | 420,2 Nm | 1200 min ⁻¹ |



PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

Not applicable

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system

closed centre

Relief valve pressure setting (tolerance):

20,5 ± 0,5 MPa

HYDRAULIC PERFORMANCES

At maximum hydraulic power

| | | | |
|---|-------------|----------|---------|
| Flow rate, Pressure, Power (couplers: 1 pair) | 110,6 l/min | 16,3 MPa | 30,1 kW |
| Flow rate, Pressure, Power (couplers: 2 pairs or +) | 111,4 l/min | 18,0 MPa | 33,4 kW |

POWER LIFT

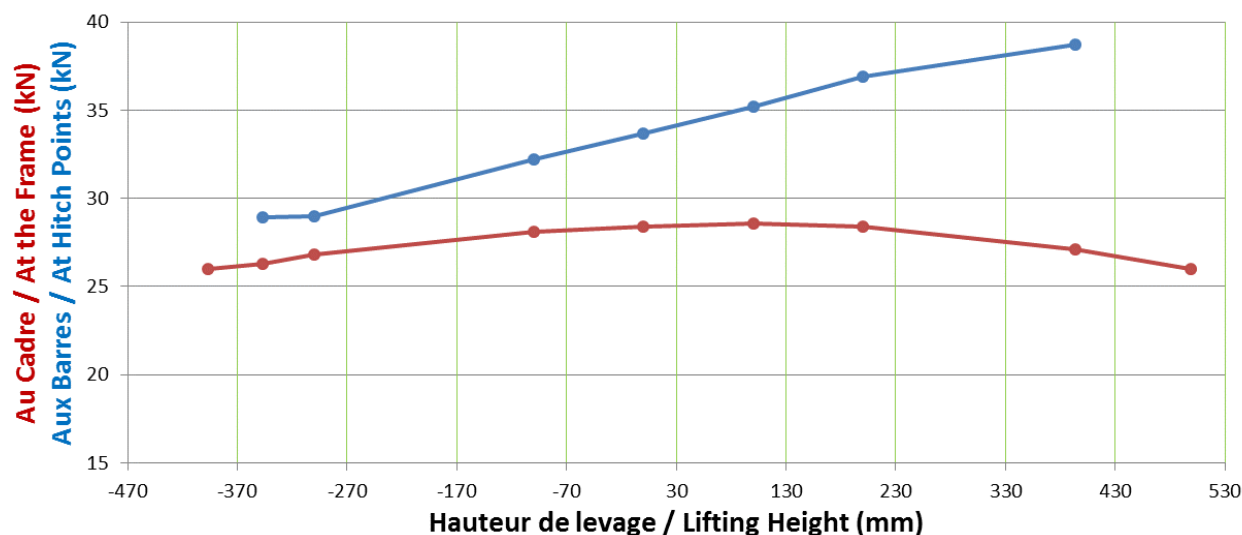
Maximum lifting force

at the hitch points

28,9 kN

at the frame

26,0 kN

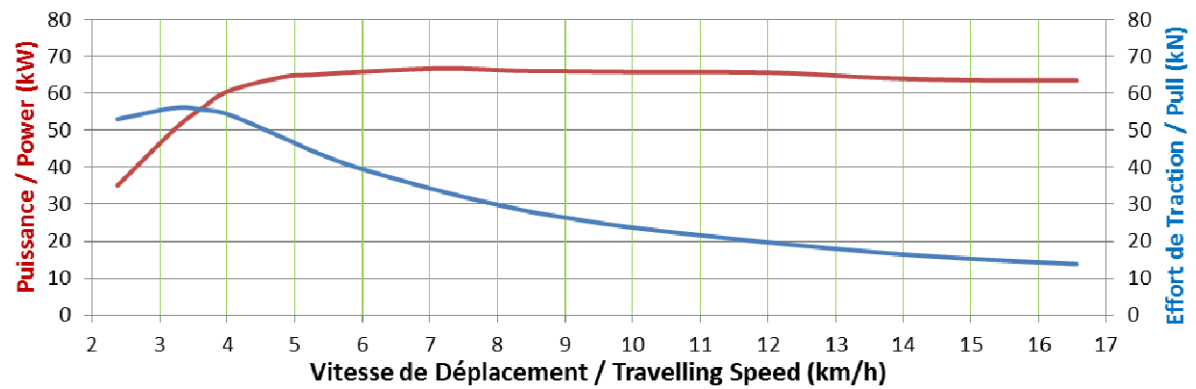


DRAWBAR TEST

| | | |
|-------------------------|-----------|-----------|
| Front tyres, Rear tyres | 420/70R24 | 480/70R38 |
| Inflation pressure | 80 kPa | 80 kPa |

UNBALLASTED

| | |
|----------------------|-----------|
| Total Mass | 5670 kg |
| Maximum drawbar pull | 56,08 kN |
| at speed of | 3,23 km/h |
| Maximum power | 66,7 kW |
| at speed of | 7,22 km/h |



BALLASTED

Not applicable