

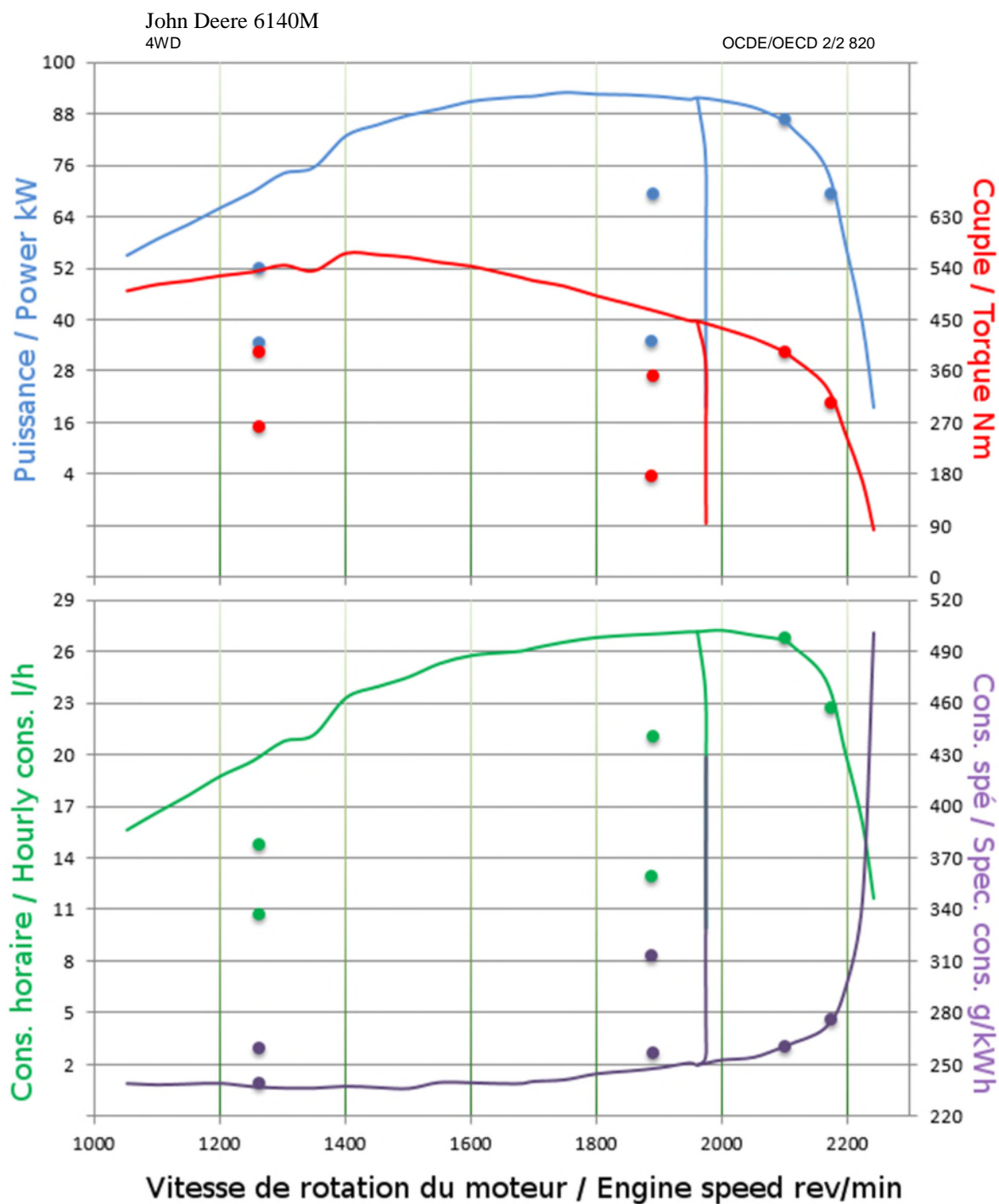


OECD approval number
OECD approval date
Make
Model
Type

Manufacturer:
Testing station:

2/2 820
26/03/2014
John Deere
6140M
4WD

PowrQuad PLUS - 40 km/h
John Deere Werke Mannheim
NTTL – Lincoln, Nebraska U.S.A.



Engine, Transmission, Power take-off Specifications

| | | |
|---|-----------------------|------------------------|
| <i>Make, Model</i> | John Deere | 4045HL496 |
| <i>Type, Supercharging</i> | Direct injection | Yes |
| <i>Cylinders, Disposition</i> | 4 | vertical in line |
| <i>Capacity, Cooling</i> | 4525 cm ³ | Liquid |
| <i>Gear box</i> | | PowrQuad PLUS |
| <i>Number of forward and reverse speeds</i> | 24 | 24 |
| <i>Speed at rated engine speed</i> | from 1,55 | to 39,21 km/h |
| <u>Standard Power take-off speed</u> | 540 min ⁻¹ | 1000 min ⁻¹ |
| <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 |

Power take-off TestOne hour test at maximum power

| | | | |
|---|----------|------------------------|-----------------------|
| <i>Power, Engine and Power take-off speed</i> | 92,54 kW | 1801 min ⁻¹ | 918 min ⁻¹ |
| <i>Hourly and specific consumption</i> | | 26,85 l/h | 244 g/kWh |

Test at maximum power at rated engine speed

| | | | |
|---|----------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 86,43 kW | 2101 min ⁻¹ | 1071 min ⁻¹ |
| <i>Hourly and specific consumption</i> | | 26,72 l/h | 260 g/kWh |

Test at standard Power take-off speed

| | | | |
|---|-----------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 91, 73 kW | 1962 min ⁻¹ | 1000 min ⁻¹ |
| <i>Hourly and specific consumption</i> | | 27,18 l/h | 250 g/kWh |

Torque rise

| | | | |
|---|----------|------------------------|--------|
| <i>Maximum torque, Engine speed corresponding</i> | 565,0 Nm | 1401 min ⁻¹ | 43,7 % |
|---|----------|------------------------|--------|

Drawbar Test

| | | |
|--------------------------------|--------------------|------------------|
| <i>Front tyres, Rear tyres</i> | 380/85 R28 | 460/85 R38 |
| <u>Test with tractor</u> | <u>unballasted</u> | <u>ballasted</u> |
| <i>Total Mass</i> | 5434 kg | |
| <i>Maximum drawbar pull</i> | 51,69 kN | |
| <i>at speed of</i> | 5,04 km/h | Not |
| <i>Maximum power</i> | 84,12 kW | Applicable |
| <i>at speed of</i> | 7,37 km/h | |

Hydraulic Performance and Power Lift Test

| | | | |
|--|-------------|-----------|---------------|
| <i>Hydraulic system</i> | | | Closed centre |
| <u>At maximum hydraulic power</u> | | | |
| <i>Flow rate, Pressure, Power (couplers: 1 pair)</i> | 117,9 l/min | 14,33 MPa | 28,2 kW |
| <i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i> | 115,6 l/min | 17,97 MPa | 34,6 kW |
| <u>Maximum lifting force</u> | | | |
| <i>at the hitch points, at frame</i> | | 33,8 kN | 28,7 kN |