



OECD approval number

1 709

OECD approval date

Restricted Code

21/11/1997

Make

John Deere

Model

7710

Type

4 WD

MFWD - PowerQuad - 30 km/h

Manufacturer

John Deere Tractor Works

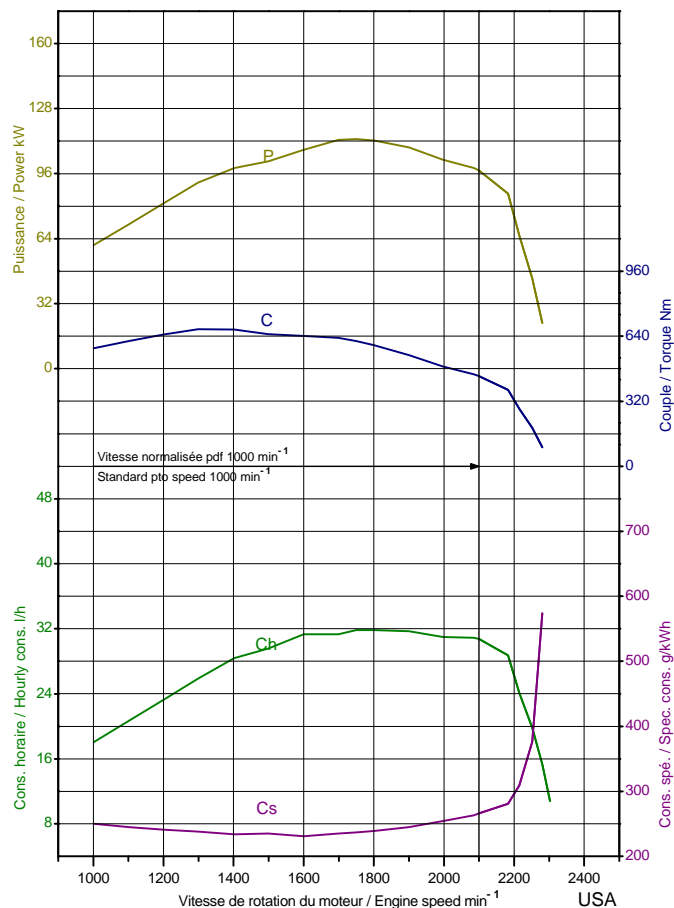
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

John Deere 7710

4 RM/WD

OCDE/OECD 1709



**Engine, Transmission, Power take-off Specifications**

|   |                             |                              |
|---|-----------------------------|------------------------------|
| <i>Make, Model</i>                                | John Deere                  | 6081TRW02                    |
| <i>Type, Supercharging</i>                        | Direct injection            | Yes                          |
| <i>Cylinders, Disposition</i>                     | 6                           | vertical in line             |
| <i>Capacity, Cooling</i>                          | 8132 cm <sup>3</sup>        | Liquid                       |
| <i>Gear box</i>                                   |                             | Mechanical powershift        |
| <i>Number of forward and reverse speeds</i>       | 16                          | 16                           |
| <i>Speed at rated engine speed</i>                | from 2.41                   | to 29.80 km/h                |
| <u>Standard Power take-off speed</u>              | <u>540 min<sup>-1</sup></u> | <u>1000 min<sup>-1</sup></u> |
| <i>Power take-off speed at rated engine speed</i> | 656 min <sup>-1</sup>       | 1064 min <sup>-1</sup>       |
| <i>Diameter of the shaft</i>                      | 35 mm                       | 35 mm                        |
| <i>Number of splines</i>                          | 6                           | 21                           |

**Power take-off Test**Two hours test at maximum power

|   |          |                        |                       |
|---|----------|------------------------|-----------------------|
| <i>Power, Engine and Power take-off speed</i> | 112.9 kW | 1750 min <sup>-1</sup> | 839 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |          | 31.84 l/h              | 237 g/kWh             |

Test at maximum power at rated engine speed

|   |         |                        |                        |
|---|---------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 97.5 kW | 2100 min <sup>-1</sup> | 1007 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 30.79 l/h              | 266 g/kWh              |

Test at standard Power take-off speed

|   |         |                        |                        |
|---|---------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 97.5 kW | 2100 min <sup>-1</sup> | 1007 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 30.79 l/h              | 266 g/kWh              |

Torque rise

|   |  |          |                        |
|---|--|----------|------------------------|
|   |  |          | 51.8 %                 |
| <u>Maximum torque, Engine speed corresponding</u> |  | 674.0 Nm | 1299 min <sup>-1</sup> |

**Drawbar Test***Front tyres, Rear tyres*

|                          |           |           |
|--------------------------|-----------|-----------|
| <u>Test with tractor</u> | 14.9 R 30 | 18.4 R 42 |
|--------------------------|-----------|-----------|

*Total Mass*

|  |             |           |
|--|-------------|-----------|
|  | unballasted | ballasted |
|--|-------------|-----------|

|  |         |  |
|--|---------|--|
|  | 6851 kg |  |
|--|---------|--|

|                             |         |     |
|-----------------------------|---------|-----|
| <i>Maximum drawbar pull</i> | 69.6 kN | Not |
|-----------------------------|---------|-----|

|                    |           |          |
|--------------------|-----------|----------|
| <i>at speed of</i> | 3.99 km/h | required |
|--------------------|-----------|----------|

|                      |          |    |
|----------------------|----------|----|
| <i>Maximum power</i> | 102.5 kW | in |
|----------------------|----------|----|

|                    |           |        |
|--------------------|-----------|--------|
| <i>at speed of</i> | 7.94 km/h | Code 2 |
|--------------------|-----------|--------|

**Hydraulic Performance and Power Lift Test**

|                         |  |               |
|-------------------------|--|---------------|
| <i>Hydraulic system</i> |  | Closed centre |
|-------------------------|--|---------------|

|                                   |  |  |
|-----------------------------------|--|--|
| <u>At maximum hydraulic power</u> |  |  |
|-----------------------------------|--|--|

|                                   |            |          |         |
|-----------------------------------|------------|----------|---------|
| <i>Flow rate, Pressure, Power</i> | 95.0 l/min | 17.7 MPa | 28.0 kW |
|-----------------------------------|------------|----------|---------|

|                              |  |  |
|------------------------------|--|--|
| <u>Maximum lifting force</u> |  |  |
|------------------------------|--|--|

|                                  |  |         |         |
|----------------------------------|--|---------|---------|
| <i>at hitch points, at frame</i> |  | 49.4 kN | 45.2 kN |
|----------------------------------|--|---------|---------|

