

## OECD CODE 2 ABSTRACT

### AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

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|----------------------------------------------|--------------------------------------|
| OECD Approval number/ Numéro d'agrément OCDE | 2/3 365                              |
| OECD Approval Date/ Date d'agrément OCDE     | 15/06/2023                           |
| Make/ Marque                                 | John Deere                           |
| Model/ Modèle                                | 9RX 590                              |
| Type/ Type                                   | Rubber tracklaying tractor, 4 tracks |
| Transmission/ Transmission                   | Powershift/Powershift                |
| Speed/ Vitesse d'avancement maximale         | 40 km/h                              |
| Manufacturer/ Constructeur                   | John Deere Tractor Works             |
| Testing station/ Station d'essai             | NTTL - USA                           |



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## SPECIFICATION

### ENGINE/ MOTEUR

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| <i>Make/ Marque</i>                   | John Deere                           |
| <i>Model/ Modèle</i>                  | JD14                                 |
| <i>Type/ Type</i>                     | Diesel                               |
| <i>Supercharging/ Suralimentation</i> | Yes/Oui                              |
| <i>Cylinders/ Cylindres</i>           | 6                                    |
| <i>Disposition/ Disposition</i>       | Vertical in line/ Verticale en ligne |
| <i>Capacity/ Cylindrée</i>            | 13548 cm <sup>3</sup>                |
| <i>Cooling/ Refroidissement</i>       | Liquid/Liquide                       |

### TRANSMISSION/ TRANSMISSION

|                                                                                |                         |
|--------------------------------------------------------------------------------|-------------------------|
| <i>Gear box/ Boite de vitesses</i>                                             | Powershift/Powershift   |
| <i>Number of forward and reverse speeds/ Nombre de vitesses Avant, Arrière</i> | 18 6                    |
| <i>Speed at rated engine speed/ Vitesse d'avancement au régime nominal</i>     | from 4.06 to 39.90 km/h |

### POWER TAKE-OFF SPECIFICATION/ PRISE DE FORCE SPECIFICATION

|                                                                                      |                              |
|--------------------------------------------------------------------------------------|------------------------------|
| <i>Standard Power take-off speed/<br/>Régime normalisé de la prise de force</i>      | <u>1000 min<sup>-1</sup></u> |
| <i>Power take-off at rated engine speed/<br/>Vitesse au régime nominal du moteur</i> | 1108 min <sup>-1</sup>       |
| <i>Diameter of the shaft/ Diamètre de l'arbre</i>                                    | 45 mm                        |
| <i>Number of splines/ Nombre de cannelures</i>                                       | 20                           |

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## PTO TEST RESULTS / RESULTATS DES ESSAIS A LA PRISE DE FORCE

### One hour test at maximum power / Essai d'une heure à la puissance maximale

|                                                                                               |           |                        |                       |
|-----------------------------------------------------------------------------------------------|-----------|------------------------|-----------------------|
| Power, Engine and Power take-off speed/<br>Puissance: Régime moteur et prise de force         | 274.91 kW | 1749 min <sup>-1</sup> | 923 min <sup>-1</sup> |
| Hourly and specific fuel consumption/<br>Carburant: Consommation horaire, Spécifique          |           | 74.66 l/h              | 229 g/kWh             |
| Hourly and specific reagent consumption/<br>Agent réducteur: Consommation horaire, Spécifique |           | 2.43 l/h               | 9.6 g/kWh             |

### Test at maximum power at rated engine speed / Essai à la puissance maximale au régime nominal du moteur

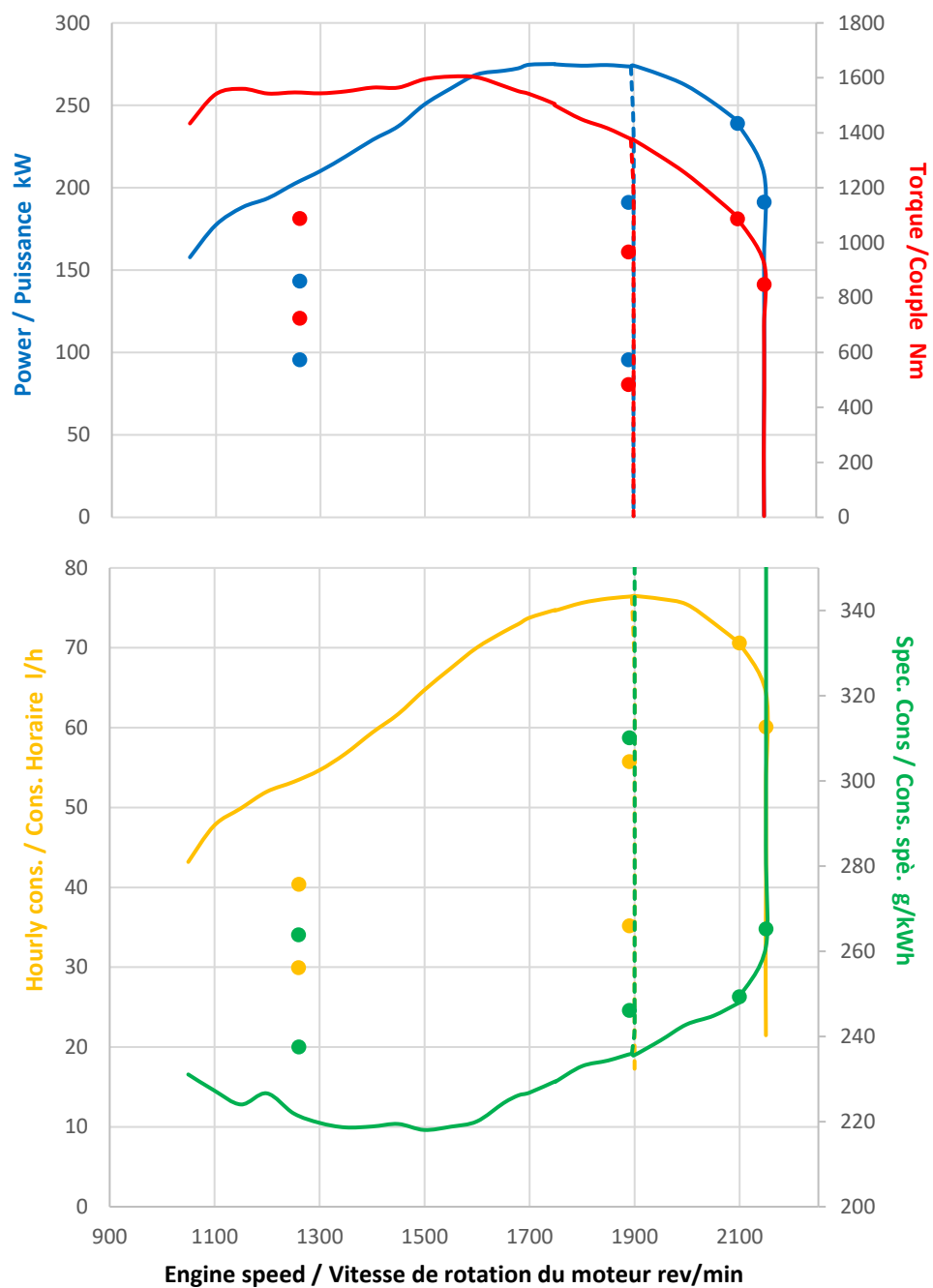
|                                                                                               |           |                        |                        |
|-----------------------------------------------------------------------------------------------|-----------|------------------------|------------------------|
| Power, Engine and Power take-off speed/<br>Puissance: Régime moteur et prise de force         | 239.14 kW | 2099 min <sup>-1</sup> | 1108 min <sup>-1</sup> |
| Hourly and specific fuel consumption/<br>Carburant: Consommation horaire, Spécifique          |           | 70.60 l/h              | 249 g/kWh              |
| Hourly and specific reagent consumption/<br>Agent réducteur: Consommation horaire, Spécifique |           | 3.13 l/h               | 14.2 g/kWh             |

### Test at standard Power take-off speed / Essai au régime normalisé de la prise de force

|                                                                                               |           |                        |                        |
|-----------------------------------------------------------------------------------------------|-----------|------------------------|------------------------|
| Power, Engine and Power take-off speed/<br>Puissance: Régime moteur et prise de force         | 273.54 kW | 1895 min <sup>-1</sup> | 1001 min <sup>-1</sup> |
| Hourly and specific fuel consumption/<br>Carburant: Consommation horaire, Spécifique          |           | 76.43 l/h              | 236 g/kWh              |
| Hourly and specific reagent consumption/<br>Agent réducteur: Consommation horaire, Spécifique |           | 2.38 l/h               | 9.5 g/kWh              |

|                                                                                             |         |                        |  |
|---------------------------------------------------------------------------------------------|---------|------------------------|--|
| <u>Maximum torque, Engine speed corresponding/<br/>Couple maximum, Régime correspondant</u> | 1605 Nm | 1550 min <sup>-1</sup> |  |
|---------------------------------------------------------------------------------------------|---------|------------------------|--|

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## HYDRAULIC PERFORMANCE AND POWER LIFT TEST/ ESSAIS DE LA PUISSANCE HYDRAULIQUE ET DE LA FORCE DE RELEVAGE

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|                                                                                         |                            |
|-----------------------------------------------------------------------------------------|----------------------------|
| Hydraulic system/ Système hydraulique                                                   | Closed centre/Centre fermé |
| Relief valve pressure setting (tolerance)/<br>Pression de réglage du clapet de décharge | 20.25 ± 0.45 MPa           |

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### HYDRAULIC PERFORMANCES/ PERFORMANCES HYDRAULIQUES

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#### At maximum hydraulic power/ A puissance hydraulique maximale

|                                                     |             |           |         |
|-----------------------------------------------------|-------------|-----------|---------|
| Flow rate, Pressure, Power (couplers: 1 pair)       | 132.3 l/min | 15.76 MPa | 34.7 kW |
| Débit, Pression, Puissance (distrib.: 1 pair)       |             |           |         |
| Flow rate, Pressure, Power (couplers: 2 pairs or +) | 222.1 l/min | 17.01 MPa | 63.0 kW |
| Débit, Pression, Puissance (distrib.: 2 pairs ou +) |             |           |         |

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### POWER LIFT/ LEVAGE

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#### Maximum corrected force exerted through full range/

#### Force maximale corrigée exercée durant la course complète

|                                         |         |
|-----------------------------------------|---------|
| At the hitch point/ aux bras inférieurs | 74.4 kN |
| On the frame/ au cadre                  | 61.7 kN |

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**DRAWBAR TEST/ ESSAIS DE TRACTION SUR PISTE**

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|                                                      |      |      |
|------------------------------------------------------|------|------|
| Front tyres, Rear tyres/ Pneumatiques avant, arrière | N.A. | N.A. |
| Inflation pressure/ Pression de gonflage             | N.A. | N.A. |

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**UNBALLASTED/ NON ALOURDI**

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|                                                  |            |
|--------------------------------------------------|------------|
| Total mass/ Masse totale                         | 26564 kg   |
| Maximum drawbar pull/ Effort maximal de traction | 244.79 kN  |
| at speed of/ à la vitesse de                     | 3.60 km/h  |
| Maximum power/ Puissance maximale de traction    | 386.88 kW  |
| at speed of/ à la vitesse de                     | 11.64 km/h |

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