

# OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

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|-----------------------------|-------------------------------|
| <b>OECD Approval Number</b> | <b>2/2 852</b>                |
| <b>OECD Approval Date</b>   | <b>11/12/2014</b>             |
| <b>Make</b>                 | <b>YTO</b>                    |
| <b>Model</b>                | <b>YTO-X1304</b>              |
| <b>Type</b>                 | <b>4 WD</b>                   |
| Transmission                | mechanical                    |
| Speed                       | 30 km/h                       |
| Manufacturer                | First Tractor Company Limited |
| Testing Station             | COTTEC – China                |



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## SPECIFICATIONS

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### ENGINE

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|                      |                                      |  |
|----------------------|--------------------------------------|--|
| <i>Make</i>          | YTO (Luoyang) Diesel Engine Co., Ltd |  |
| <i>Model</i>         | LR6A3Z-23                            |  |
| <i>Type</i>          | Direct injection                     |  |
| <i>Supercharging</i> | Yes                                  |  |
| <i>Cylinders</i>     | 6                                    |  |
| <i>Disposition</i>   | vertical in line                     |  |
| <i>Capacity</i>      | 6494 cm <sup>3</sup>                 |  |
| <i>Cooling</i>       | Liquid                               |  |

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### TRANSMISSION

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|                                             |           |               |
|---------------------------------------------|-----------|---------------|
| <i>Gear box</i>                             |           | Mechanical    |
| <i>Number of forward and reverse speeds</i> | 12        | 4             |
| <i>Speed at rated engine speed</i>          | from 2,14 | to 27,93 km/h |

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### POWER TAKE-OFF SPECIFICATIONS

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|                                                   |                             |                              |
|---------------------------------------------------|-----------------------------|------------------------------|
| <i>Standard Power take-off speed</i>              | <u>540 min<sup>-1</sup></u> | <u>1000 min<sup>-1</sup></u> |
| <i>Power take-off speed at rated engine speed</i> | 585 min <sup>-1</sup>       | 955 min <sup>-1</sup>        |
| <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 | 92,64 kW | 2100 min <sup>-1</sup> | 534 min <sup>-1</sup> |
| Hourly and specific consumption        |          | 27,50 l/h              | 253 g/kWh             |
| Hourly and specific urea consumption   |          | -                      | -                     |

Test at maximum power at rated engine speed

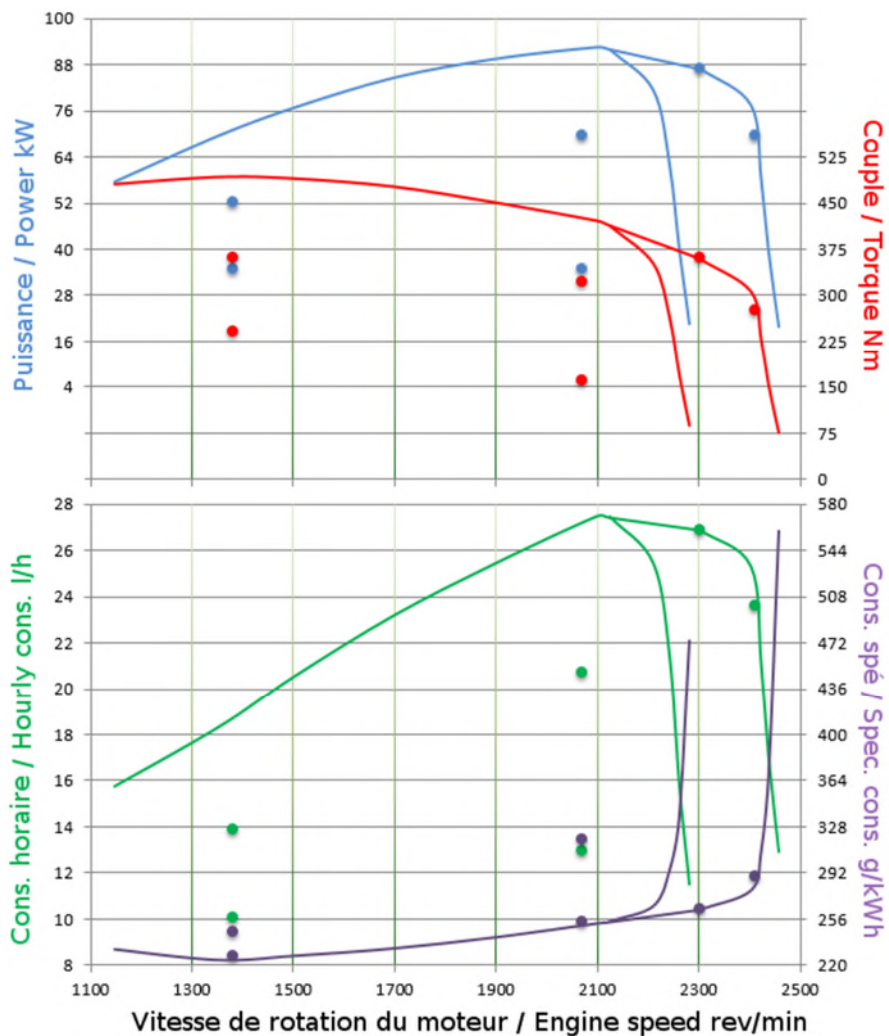
|                                        |          |                        |                       |
|----------------------------------------|----------|------------------------|-----------------------|
| Power, Engine and Power take-off speed | 86,99 kW | 2301 min <sup>-1</sup> | 585 min <sup>-1</sup> |
| Hourly and specific consumption        |          | 26,89 l/h              | 263 g/kWh             |
| Hourly and specific urea consumption   |          | -                      | -                     |

Test at standard Power take-off speed

|                                        |          |                        |                       |
|----------------------------------------|----------|------------------------|-----------------------|
| Power, Engine and Power take-off speed | 92,06 kW | 2124 min <sup>-1</sup> | 540 min <sup>-1</sup> |
| Hourly and specific consumption        |          | 27,43 l/h              | 254 g/kWh             |
| Hourly and specific urea consumption   |          | -                      | -                     |

Torque rise

|                                                   |          |                        |        |
|---------------------------------------------------|----------|------------------------|--------|
| <u>Maximum torque, Engine speed corresponding</u> | 491,7 Nm | 1353 min <sup>-1</sup> | 36,2 % |
|---------------------------------------------------|----------|------------------------|--------|



## PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

Not Applicable

## HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system

Open centre

Relief valve pressure setting (tolerance):

21 ± 0,5 MPa

### HYDRAULIC PERFORMANCES

#### At maximum hydraulic power

|                                                     |            |          |          |
|-----------------------------------------------------|------------|----------|----------|
| Flow rate, Pressure, Power (couplers: 1 pair)       | 43,7 l/min | 18,0 MPa | 13,11 kW |
| Flow rate, Pressure, Power (couplers: 2 pairs or +) | 44,0 l/min | 18,0 MPa | 13,20 kW |

### POWER LIFT

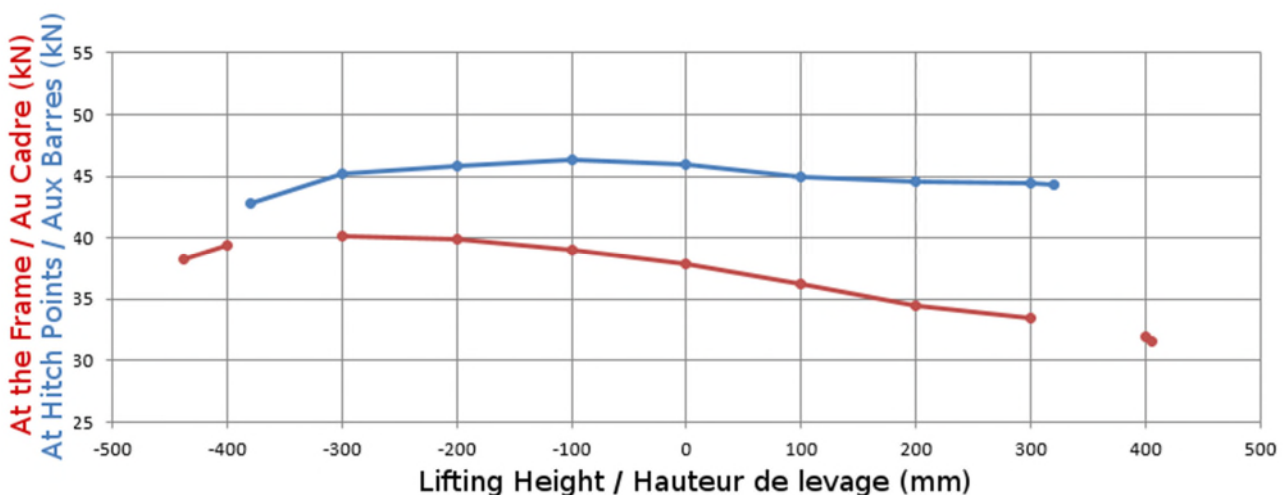
#### Maximum lifting force

*at the hitch points*

42,82 kN

*at the frame*

31,61 kN

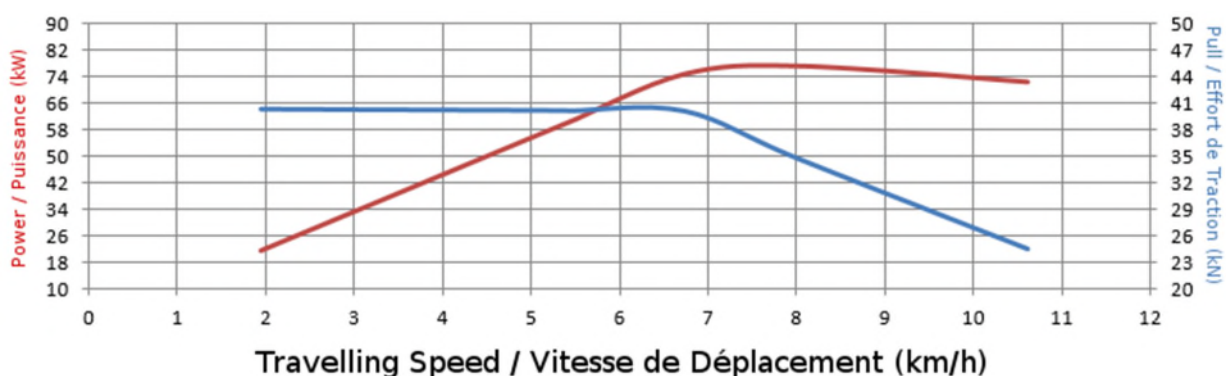


## DRAWBAR TEST

|                         |         |         |
|-------------------------|---------|---------|
| Front tyres, Rear tyres | 14.9-26 | 18.4-38 |
| Inflation pressure      | 180 kPa | 180 kPa |

### UNBALLASTED

|                      |  |           |
|----------------------|--|-----------|
| Total Mass           |  | 5098 kg   |
| Maximum drawbar pull |  | 40,26 kN  |
| at speed of          |  | 1,94 km/h |
| Maximum power        |  | 77,33 kW  |
| at speed of          |  | 8,03 km/h |



### BALLASTED

|                      |  |           |
|----------------------|--|-----------|
| Total Mass           |  | 6098 kg   |
| Maximum drawbar pull |  | 50,20 kN  |
| at speed of          |  | 1,94 km/h |
| Maximum power        |  | 80,03 kW  |
| at speed of          |  | 8,07 km/h |

