



OECD approval number

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Full Code  
17/07/2001

Make

Tong Yang

Model

T431

Type

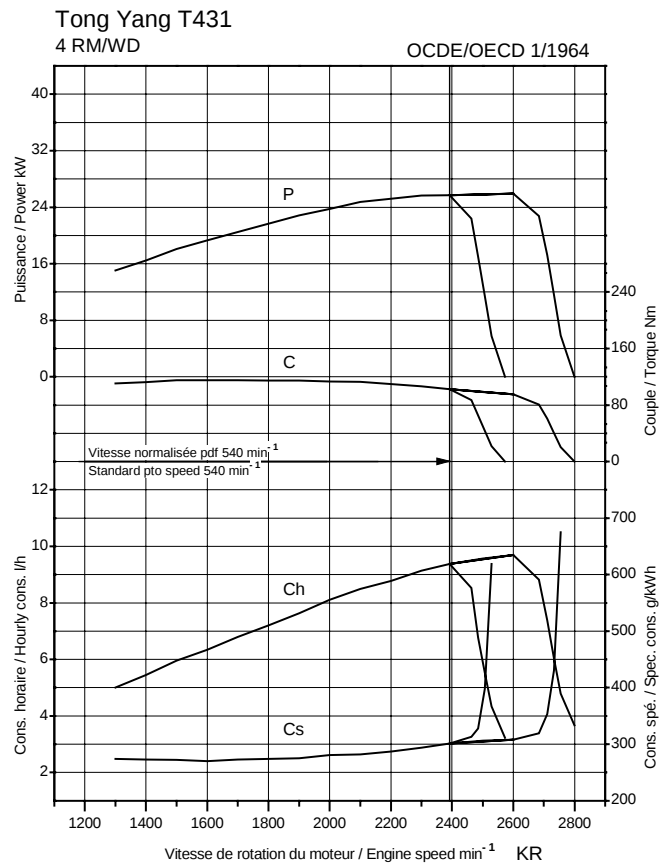
4 WD

Manufacturer

Tong Yang Moolsan Co., Ltd.

Testing station:

NAMRI, Suwon, Korea



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

|                                                   |                         |                        |
|---------------------------------------------------|-------------------------|------------------------|
| <i>Make, Model</i>                                | Kubota                  | V2203                  |
| <i>Type, Supercharging</i>                        | Indirect injection      | None                   |
| <i>Cylinders, Disposition</i>                     | 4                       | vertical in line       |
| <i>Capacity, Cooling</i>                          | 2197 cm <sup>3</sup>    | Liquid                 |
| <i>Gear box</i>                                   | Mechanical synchronized |                        |
| <i>Number of forward and reverse speeds</i>       | 16                      | 16                     |
| <i>Speed at rated engine speed</i>                | from 0.33               | to 22.87 km/h          |
| <i>Standard Power take-off speed</i>              | 540 min <sup>-1</sup>   | 1000 min <sup>-1</sup> |
| <i>Power take-off speed at rated engine speed</i> | 587 min <sup>-1</sup>   | 1057 min <sup>-1</sup> |
| <i>Diameter of the shaft</i>                      | 35 mm                   | 35 mm                  |
| <i>Number of splines</i>                          | 6                       | 6                      |

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

|                                               |         |                        |                       |
|-----------------------------------------------|---------|------------------------|-----------------------|
| <i>Power, Engine and Power take-off speed</i> | 25.9 kW | 2600 min <sup>-1</sup> | 587 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 9.69 l/h               | 308 g/kWh             |

Test at maximum power at rated engine speed

|                                               |         |                        |                       |
|-----------------------------------------------|---------|------------------------|-----------------------|
| <i>Power, Engine and Power take-off speed</i> | 25.9 kW | 2600 min <sup>-1</sup> | 587 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 9.69 l/h               | 308 g/kWh             |

Test at standard Power take-off speed

|                                               |         |                        |                       |
|-----------------------------------------------|---------|------------------------|-----------------------|
| <i>Power, Engine and Power take-off speed</i> | 25.7 kW | 2392 min <sup>-1</sup> | 540 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 9.38 l/h               | 301 g/kWh             |

Torque rise

|                                                   |          |                        |        |
|---------------------------------------------------|----------|------------------------|--------|
| <i>Maximum torque, Engine speed corresponding</i> | 115.4 Nm | 1600 min <sup>-1</sup> | 21.1 % |
|---------------------------------------------------|----------|------------------------|--------|

**Drawbar Test**

|                                |                    |                  |
|--------------------------------|--------------------|------------------|
| <i>Front tyres, Rear tyres</i> | 9.5 - 16           | 13.6 - 26        |
| <i>Test with tractor</i>       | <u>unballasted</u> | <u>ballasted</u> |
| <i>Total Mass</i>              | 1964 kg            | 2149 kg          |
| <i>Maximum drawbar pull</i>    | 14.3 kN            | 15.4 kN          |
| <i>at speed of</i>             | 2.34 km/h          | 2.57 km/h        |
| <i>Maximum power</i>           | 23.3 kW            | 23.7 kW          |
| <i>at speed of</i>             | 8.99 km/h          | 9.15 km/h        |

**Power Lift and Hydraulic Performance Test**

|                                                        |            |                 |
|--------------------------------------------------------|------------|-----------------|
| <i>Hydraulic system</i>                                |            | Opened centre   |
| <i>Maximum lifting force at hitch points, at frame</i> | 13.8 kN    | 10.4 kN         |
| <i>At maximum hydraulic power</i>                      |            |                 |
| <i>Flow rate, Pressure, Power</i>                      | 30.0 l/min | 12.6 MPa 6.3 kW |