



OECD approval number

2/2 328

Restricted Code

OECD approval date

15/03/2006

Make

Challenger

Model

MT 445B

Type

4 WD

D30222AF611K - 40 km/h

Manufacturer

AGCO S.A.

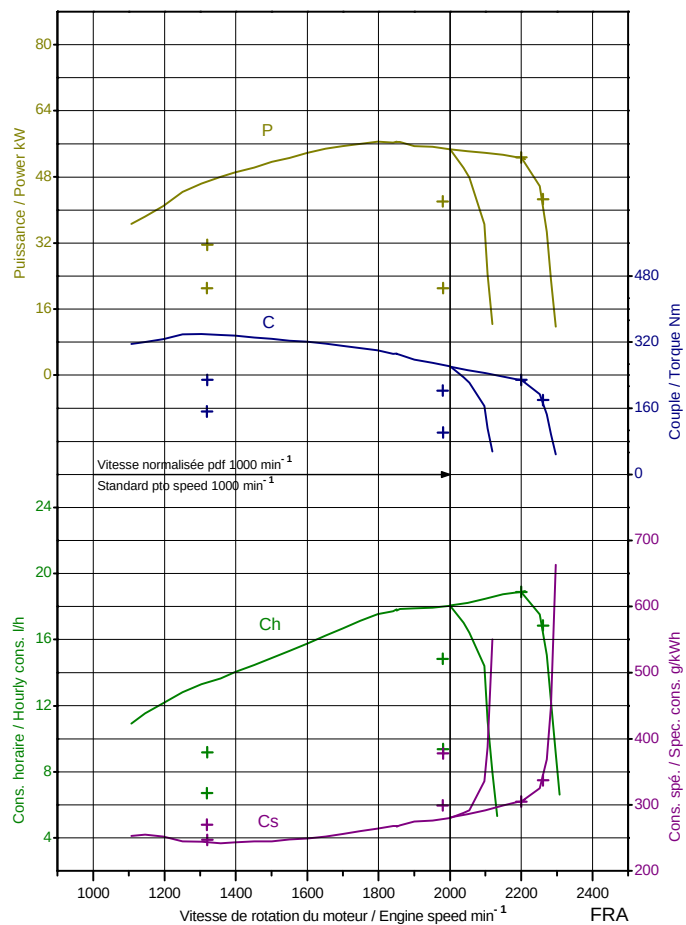
Testing station:

Cemagref, Antony, France

Challenger MT 445B

4 RM/WD

OCDE/OECD 2/2328



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

|                                                   |                       |                        |
|---------------------------------------------------|-----------------------|------------------------|
| <i>Make, Model</i>                                | Perkins               | 1104C-44 T (2165/2200) |
| <i>Type, Supercharging</i>                        | Direct injection      | Yes                    |
| <i>Cylinders, Disposition</i>                     | 4                     | vertical in line       |
| <i>Capacity, Cooling</i>                          | 4400 cm <sup>3</sup>  | Liquid                 |
| <i>Gear box</i>                                   |                       | Mechanical             |
| <i>Number of forward and reverse speeds</i>       | 16                    | 16                     |
| <i>Speed at rated engine speed</i>                | from 2.63             | to 37.74 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> | 601 min <sup>-1</sup> | 1100 min <sup>-1</sup> |
| <i>Diameter of the shaft</i>                      | 34.9 mm               | 34.9 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> | 56.6 kW | 1851 min <sup>-1</sup> | 925 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 17.83 l/h              | 268 g/kWh             |

Test at maximum power at rated engine speed

|                                               |         |                        |                        |
|-----------------------------------------------|---------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 52.7 kW | 2200 min <sup>-1</sup> | 1100 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 18.88 l/h              | 305 g/kWh              |

Test at standard Power take-off speed

|                                               |         |                        |                        |
|-----------------------------------------------|---------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 54.7 kW | 2000 min <sup>-1</sup> | 1000 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 18.05 l/h              | 280 g/kWh              |

Torque rise

|                                                   |          |                        |        |
|---------------------------------------------------|----------|------------------------|--------|
| <i>Maximum torque, Engine speed corresponding</i> | 339.9 Nm | 1303 min <sup>-1</sup> | 48.7 % |
|---------------------------------------------------|----------|------------------------|--------|

**Drawbar Test***Front tyres, Rear tyres*Test with tractor

|                             |           |                    |                  |
|-----------------------------|-----------|--------------------|------------------|
| <i>Total Mass</i>           | 4220 kg   | 13.6 R 28          | 480/70 R 38      |
| <i>Maximum drawbar pull</i> | 39.1 kN   | <u>unballasted</u> | <u>ballasted</u> |
| <i>at speed of</i>          | 2.34 km/h |                    | Not              |
| <i>Maximum power</i>        | 49.0 kW   |                    | required         |
| <i>at speed of</i>          | 8.26 km/h |                    | in               |
|                             |           |                    | Code 2           |

**Hydraulic Performance and Power Lift Test***Hydraulic system*

Opened centre

At maximum hydraulic power

|                                   |            |          |         |
|-----------------------------------|------------|----------|---------|
| <i>Flow rate, Pressure, Power</i> | 56.1 l/min | 15.8 MPa | 14.8 kW |
|-----------------------------------|------------|----------|---------|

Maximum lifting force

|                                  |  |         |         |
|----------------------------------|--|---------|---------|
| <i>at hitch points, at frame</i> |  | 42.2 kN | 35.4 kN |
|----------------------------------|--|---------|---------|

