



OECD approval number

2/2 224

OECD approval date

Restricted Code

03/03/2005

Make

Challenger

Model

MT 545B

Type

2 WD

F42521AF113K - 40 km/h

Manufacturer

AGCO S.A.

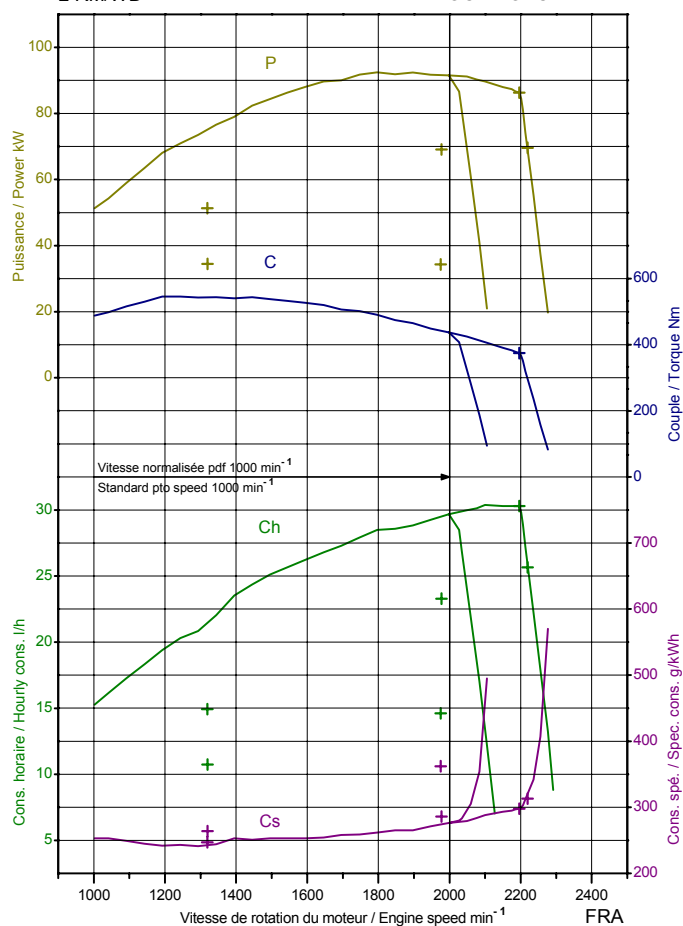
Testing station:

Cemagref, Antony, France

Challenger MT 545B

2 RM/WD

OCDE/OECD 2/2224



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Perkins	1106C-E60 TA
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	5985 cm ³	Liquid
<i>Gear box</i>		Mechanical
<i>Number of forward and reverse speeds</i>	32	32
<i>Speed at rated engine speed</i>	from 2.26	to 40.00 km/h
<u>Standard Power take-off speed</u>	<u>540 min⁻¹</u>	<u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>	601 min ⁻¹	1100 min ⁻¹
<i>Diameter of the shaft</i>	34.9 mm	34.9 mm
<i>Number of splines</i>	6	21

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	92.5 kW	1797 min ⁻¹	898 min ⁻¹
<i>Hourly and specific consumption</i>		28.50 l/h	262 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	86.3 kW	2196 min ⁻¹	1098 min ⁻¹
<i>Hourly and specific consumption</i>		30.29 l/h	298 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	91.5 kW	1998 min ⁻¹	999 min ⁻¹
<i>Hourly and specific consumption</i>		29.69 l/h	276 g/kWh

Torque rise

45.4 %

Maximum torque, Engine speed corresponding545.7 Nm 1243 min⁻¹**Drawbar Test***Front tyres, Rear tyres*

11.00 - 16 580/70 R 38

Test with tractorunballasted ballasted*Total Mass*

5960 kg

Maximum drawbar pull

46.4 kN

Not

at speed of

1.99 km/h

required

Maximum power

81.0 kW

in

at speed of

10.70 km/h

Code 2

Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power*Flow rate, Pressure, Power*

91.5 l/min

14.1 MPa

21.5 kW

Maximum lifting force*at hitch points, at frame*

43.9 kN

38.0 kN

