



OECD approval number

2/2 325

Restricted Code

OECD approval date

15/03/2006

Make

Challenger

Model

MT 425B

Type

2 WD

D29221AF611K - 40 km/h

Manufacturer

AGCO S.A.

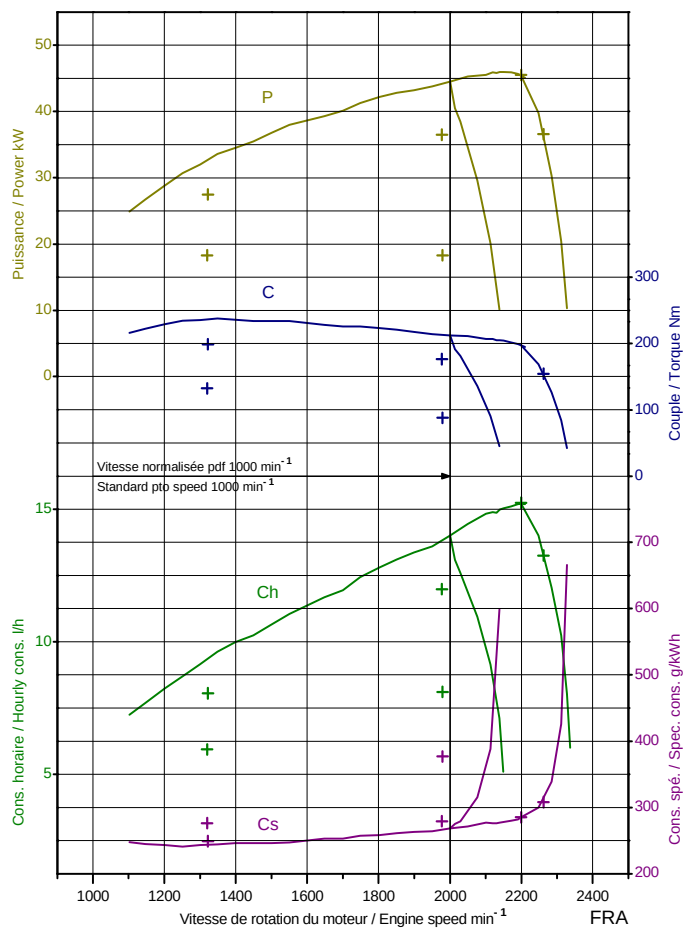
Testing station:

Cemagref, Antony, France

Challenger MT 425B

2 RM/WD

OCDE/OECD 2/2325



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Perkins	1104C-44 (2151/2200)
<i>Type, Supercharging</i>	Direct injection	None
<i>Cylinders, Disposition</i>	4	vertical in line
<i>Capacity, Cooling</i>	4400 cm ³	Liquid
<i>Gear box</i>		Mechanical
<i>Number of forward and reverse speeds</i>	16	16
<i>Speed at rated engine speed</i>	from 2.55	to 39.15 km/h
<u>Standard Power take-off speed</u>	540 min ⁻¹	1000 min ⁻¹
<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>	46.0 kW	2150 min ⁻¹	1075 min ⁻¹
<i>Hourly and specific consumption</i>		15.04 l/h	278 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	45.5 kW	2199 min ⁻¹	1100 min ⁻¹
<i>Hourly and specific consumption</i>		15.21 l/h	285 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	44.5 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		14.01 l/h	268 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	237.8 Nm	1349 min ⁻¹	20.5 %
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Drawbar Test*Front tyres, Rear tyres*Test with tractor

<i>Total Mass</i>	3945 kg	7.50-16	18.4 R 34
<i>Maximum drawbar pull</i>	30.9 kN	<u>unballasted</u>	<u>ballasted</u>
<i>at speed of</i>	2.34 km/h		Not
<i>Maximum power</i>	37.9 kW		required
<i>at speed of</i>	9.77 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>	55.2 l/min	15.4 MPa	14.2 kW
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Maximum lifting force

<i>at hitch points, at frame</i>		43.2 kN	32.4 kN
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