



OECD approval number

2/2 329

OECD approval date

Restricted Code

15/03/2006

Make

Challenger

Model

MT 455B

Type

2 WD

D31221AF611K - 40 km/h

Manufacturer

AGCO S.A.

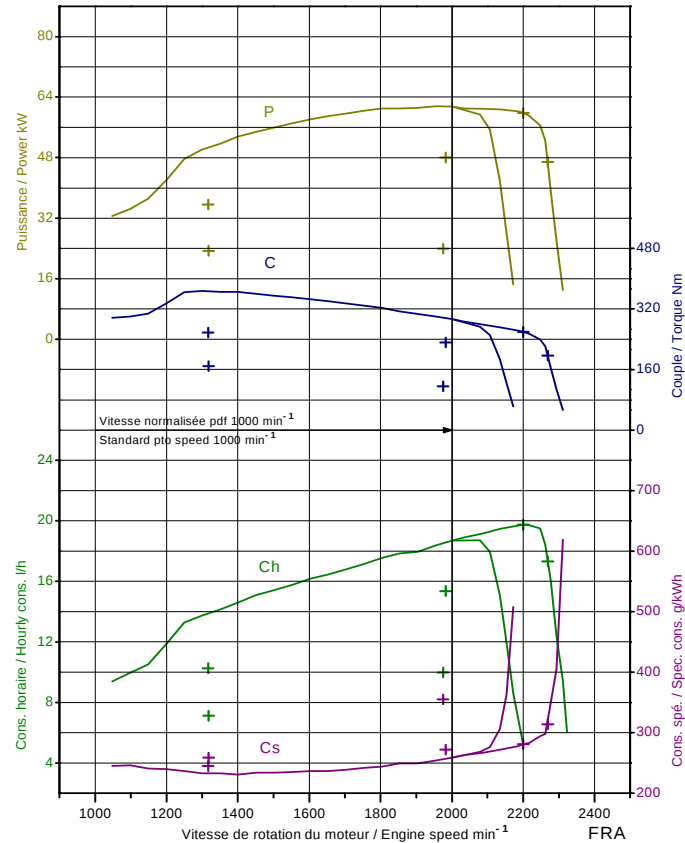
Testing station:

Cemagref, Antony, France

Challenger MT 455 B

2 RM/WD

OCDE/OECD 2/2329



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Perkins	1104C-44 T (2359/2200)
<i>Type, Supercharging</i>	Direct injection	Yes
<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 2.72	to 38.92 km/h
<i>Standard Power take-off speed</i>	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>	61.6 kW	1955 min ⁻¹	977 min ⁻¹
<i>Hourly and specific consumption</i>		18.38 l/h	254 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	59.8 kW	2200 min ⁻¹	1100 min ⁻¹
<i>Hourly and specific consumption</i>		19.75 l/h	281 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	61.5 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		18.70 l/h	259 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	367.8 Nm	1300 min ⁻¹	41.8 %
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Drawbar Test

<i>Front tyres, Rear tyres</i>	10.00 - 16	18.4 R 38
<i>Test with tractor</i>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	3935 kg	
<i>Maximum drawbar pull</i>	30.5 kN	Not
<i>at speed of</i>	2.45 km/h	required
<i>Maximum power</i>	50.0 kW	in
<i>at speed of</i>	8.53 km/h	Code 2

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>		Opened centre
<i>At maximum hydraulic power</i>		
<i>Flow rate, Pressure, Power</i>	56.1 l/min	15.8 MPa 14.8 kW
<i>Maximum lifting force</i>		
<i>at hitch points, at frame</i>	42.2 kN	35.4 kN

