



OECD approval number

2/2 306

OECD approval date

Restricted Code

13/01/2006

Make

Challenger

Model

MT 555B

Type

2 WD

F43521AH113K - 32 speeds - 40 km/h

Manufacturer

AGCO S.A.

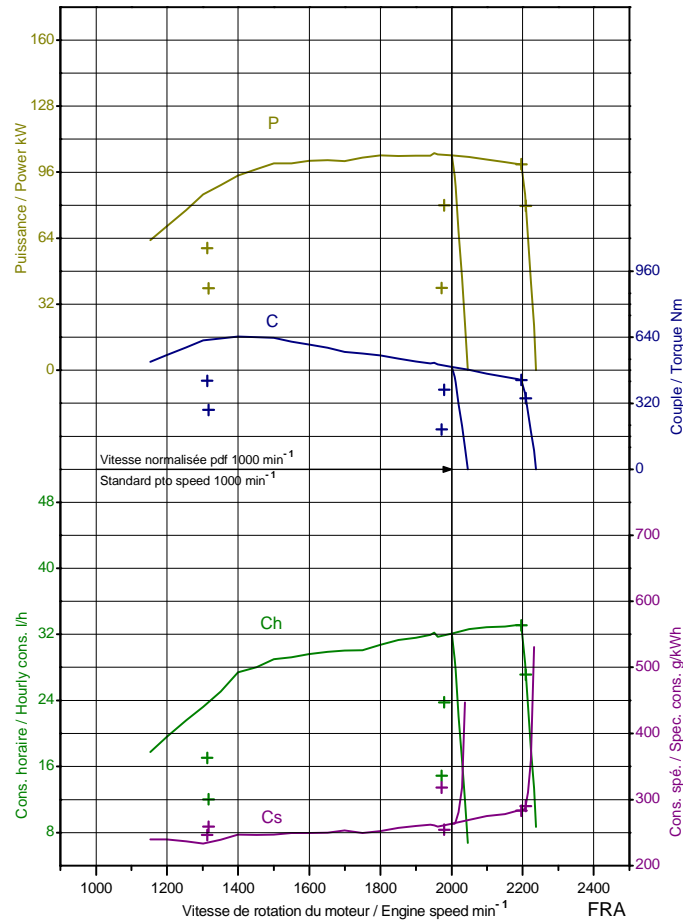
Testing station:

Cemagref, Antony, France

Challenger MT 555B

2 RM/WD

OCDE/OECD 2/2306



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Perkins / Caterpillar	3056E DITAAC	
<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 2.41	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>	105.3 kW	1951 min ⁻¹	975 min ⁻¹
<i>Hourly and specific consumption</i>		32.21 l/h	261 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	99.8 kW	2196 min ⁻¹	1098 min ⁻¹
<i>Hourly and specific consumption</i>		33.11 l/h	283 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	104.2 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		32.11 l/h	263 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		644.7 Nm	1400 min ⁻¹
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Drawbar Test

<i>Front tyres, Rear tyres</i>	10.00 - 16	520/85 R 43	
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>	
<i>Total Mass</i>	6120 kg		
<i>Maximum drawbar pull</i>	48.2 kN	<i>Not</i>	
<i>at speed of</i>	2.07 km/h	<i>required</i>	
<i>Maximum power</i>	86.0 kW	<i>in</i>	
<i>at speed of</i>	9.00 km/h	<i>Code 2</i>	

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>		Closed centre	
<u>At maximum hydraulic power</u>			
<i>Flow rate, Pressure, Power</i>	85.2 l/min	14.9 MPa	21.2 kW
<u>Maximum lifting force</u>			
<i>at hitch points, at frame</i>		72.7 kN	77.4 kN

