



OECD approval number
OECD approval date
Make
Model
Type

2/2 413
26/06/2008
Challenger
MT 555B
4 WD

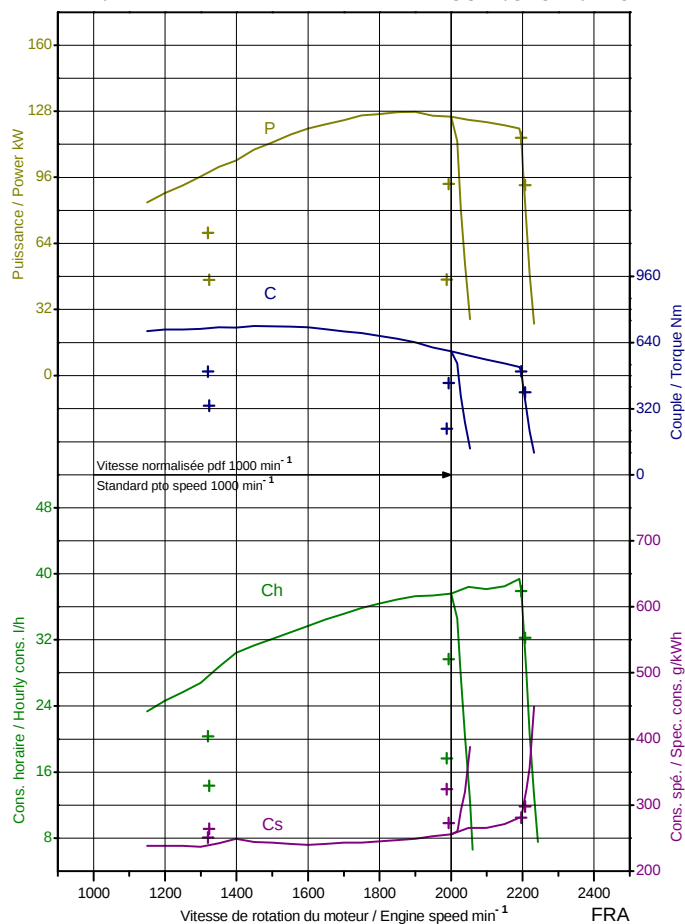
F43E23GH113K - 40 km/h
AGCO S.A.
Cemagref, Antony, France

Manufacturer
Testing station:

Challenger MT 555B

4 RM/WD

OCDE/OECD 2/2413



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Perkins/Caterpillar	T3290/2200
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	6600 cm ³	Liquid
<i>Gear box</i>		Mechanical
<i>Number of forward and reverse speeds</i>	24	24
<i>Speed at rated engine speed</i>	from 1.72	to 40.48 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>	594 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>	127.8 kW	1900 min ⁻¹	950 min ⁻¹
<i>Hourly and specific consumption</i>		37.31 l/h	249 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	115.1 kW	2196 min ⁻¹	1098 min ⁻¹
<i>Hourly and specific consumption</i>		37.92 l/h	281 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	125.3 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		37.59 l/h	256 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	720.9 Nm	1450 min ⁻¹	44.0 %
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Drawbar Test

<i>Front tyres, Rear tyres</i>	16.9 R 30	480/80 R 46
<i>Test with tractor</i>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	7625 kg	9565 kg
<i>Maximum drawbar pull</i>	67.5 kN	84.6 kN
<i>at speed of</i>	1.85 km/h	1.83 km/h
<i>Maximum power</i>	117.1 kW	114.5 kW
<i>at speed of</i>	10.86 km/h	9.20 km/h

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>	Closed centre		
<i>At maximum hydraulic power</i>			
<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	97.7 l/min	13.2 MPa	21.5 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	107.9 l/min	15.2 MPa	27.3 kW
<i>Maximum lifting force</i>			
<i>at the hitch points, at frame</i>	70.7 kN	64.8 kN	

