



OECD approval number

2/2 212

Restricted Code

OECD approval date

07/01/2005

Make

Challenger

Model

MT 535B

Type

2 WD

F41521AF113K - 40 km/h

Manufacturer

AGCO S.A.

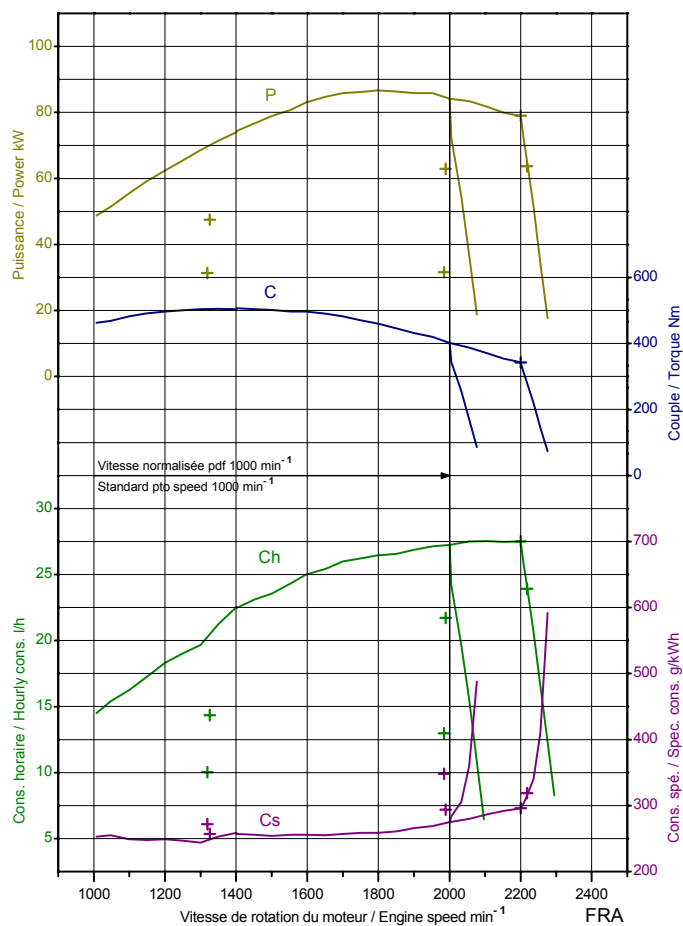
Testing station:

Cemagref, Antony, France

Challenger MT 535B

2 RM/WD

OCDE/OECD 2/2212



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>	86.7 kW	1798 min ⁻¹	899 min ⁻¹
<i>Hourly and specific consumption</i>		26.46 l/h	259 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	79.0 kW	2200 min ⁻¹	1100 min ⁻¹
<i>Hourly and specific consumption</i>		27.53 l/h	296 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	84.2 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		27.25 l/h	275 g/kWh

Torque rise

		47.7 %	
<u>Maximum torque, Engine speed corresponding</u>	506.7 Nm	1402 min ⁻¹	

Drawbar Test*Front tyres, Rear tyres*

	11.00 - 16	580/70 R 38
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Test with tractor

	<u>unballasted</u>	<u>ballasted</u>
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Total Mass

	5960 kg	
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Maximum drawbar pull

	45.4 kN	Not
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at speed of

	2.00 km/h	required
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Maximum power

	77.9 kW	in
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at speed of

	10.71 km/h	Code 2
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Hydraulic Performance and Power Lift Test*Hydraulic system*

		Closed centre
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At maximum hydraulic power

<i>Flow rate, Pressure, Power</i>	91.5 l/min	14.1 MPa	21.5 kW
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Maximum lifting force

<i>at hitch points, at frame</i>		43.9 kN	38.0 kN
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