



OECD approval number

2/1 874/1

OECD approval date

Restricted Code

26/07/2002

Make

Challenger

Model

MT 545

Type

4 WD

F225225D711K - 40 km/h

Manufacturer

Agco S.A.

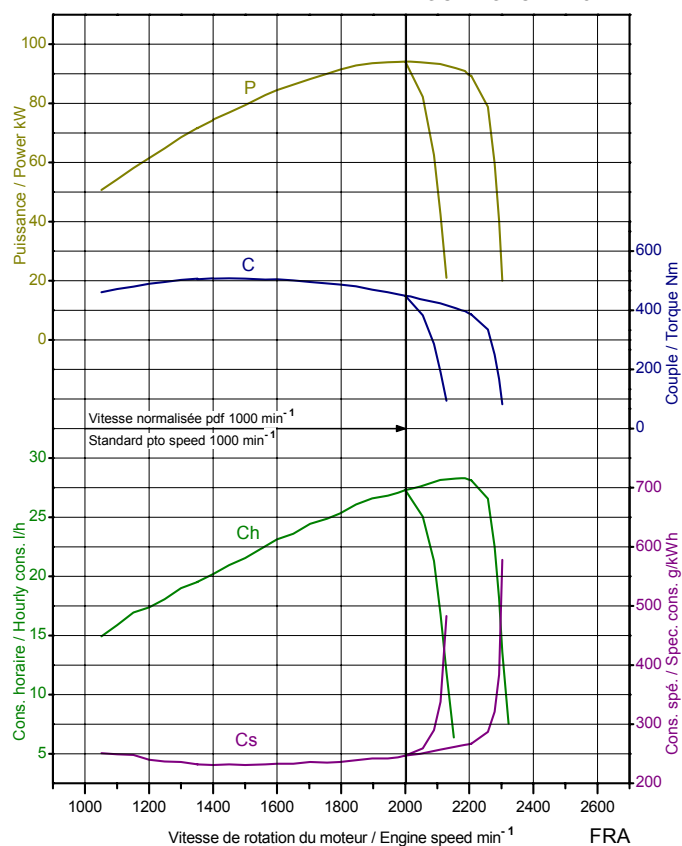
Testing station:

Cemagref, Antony, France

Challenger MT 545

4 RM/WD

OCDE/OECD 2/1874/1



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Perkins	1006-60 T
<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 2.13	to 39.12 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>	35 mm	35 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>	94.1 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		27.30 l/h	247 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	89.8 kW	2196 min ⁻¹	1098 min ⁻¹
<i>Hourly and specific consumption</i>		28.19 l/h	266 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	94.1 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		27.30 l/h	247 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	501.7 Nm	1450 min ⁻¹	28.4 %
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Drawbar Test*Front tyres, Rear tyres*

<u>Test with tractor</u>	16.9 R 28	20.8 R 38
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Total Mass

<i>Maximum drawbar pull</i>	unballasted	ballasted
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at speed of

<i>Maximum power</i>	5170 kg	
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at speed of

	48.6 kN	Not
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Power Lift and Hydraulic Performance Test*Hydraulic system*

<i>Maximum lifting force at hitch points, at frame</i>	Opened (closed opt.) centre	
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At maximum hydraulic power

<i>Flow rate, Pressure, Power</i>	48.5 kN	36.2 kN
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