



OECD approval number

2/1 878/1

OECD approval date

Restricted Code

30/07/2002

Make

Challenger

Model

MT 545

Type

2 WD

F225215D711K - 40 km/h

Manufacturer

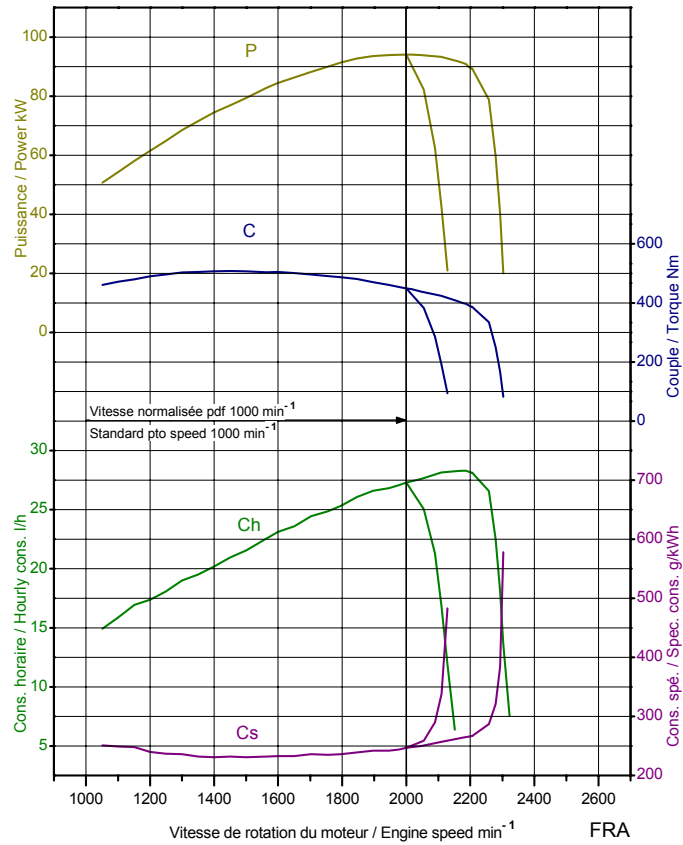
Agco S.A.

Testing station:

Cemagref, Antony, France

Challenger MT 545
2 RM/WD

OCDE/OECD 2/1878/1



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
<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

<u>Maximum torque. Engine speed corresponding</u>		501,7 Nm	1450 min ⁻¹
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Drawbar Test

<i>Front tyres, Rear tyres</i>	11.00 - 16	20.8 R 38
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	4745 kg	
<i>Maximum drawbar pull</i>	47,8 kN	Not
<i>at speed of</i>	1,97 km/h	required
<i>Maximum power</i>	87,5 kW	in
<i>at speed of</i>	12,27 km/h	Code 2

Power Lift and Hydraulic Performance Test

<i>Hydraulic system</i>		Closed centre	
<i>Maximum lifting force at hitch points, at frame</i>	48,5 kN	36,2 kN	
<u>At maximum hydraulic power</u>			
<i>Flow rate, Pressure, Power</i>	94,5 l/min	15,9 MPa	25,0 kW

