



OECD approval number

2/1 860/1

OECD approval date

Restricted Code

Make

30/09/2002

Model

Challenger

Type

MT 535

2 WD

F205215D411K - 40 km/h

Manufacturer

Agco S.A.

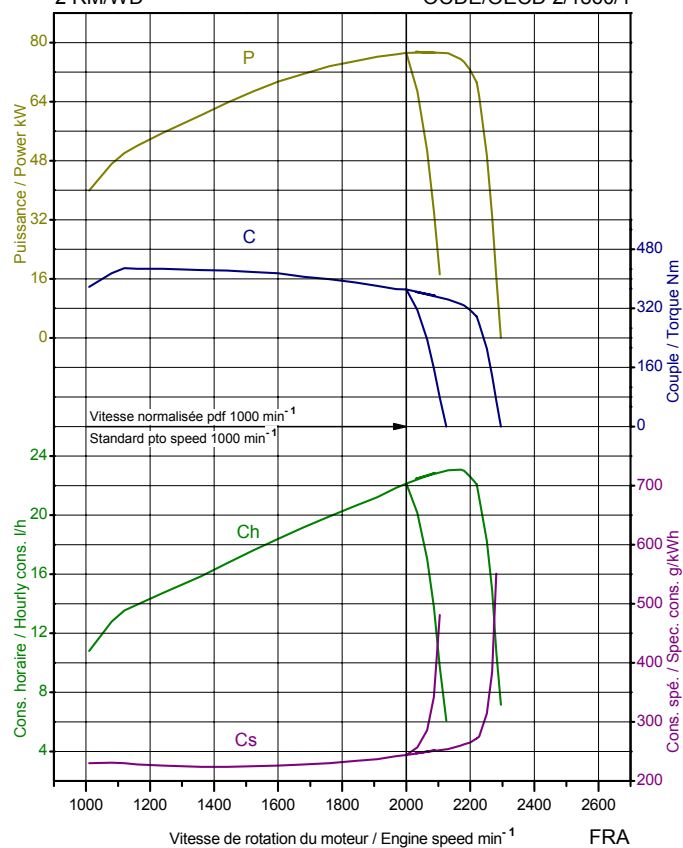
Testing station:

Cemagref, Antony, France

Challenger MT 535

2 RM/WD

OCDE/OECD 2/1860/1



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 2.10	to 38.47 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>	77.5 kW	2030 min ⁻¹	1015 min ⁻¹
<i>Hourly and specific consumption</i>		22.46 l/h	247 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	74.7 kW	2180 min ⁻¹	1090 min ⁻¹
<i>Hourly and specific consumption</i>		23.00 l/h	262 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	77.2 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		22.15 l/h	244 g/kWh

Torque rise

		30.5 %
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Maximum torque, Engine speed corresponding

	428.6 Nm	1120 min ⁻¹
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Drawbar Test*Front tyres, Rear tyres*

	11.00 - 16	18.4 R 38
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Test with tractor

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

	4355 kg	
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Maximum drawbar pull

	39.5 kN	Not
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at speed of

	2.19 km/h	required
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Maximum power

	74.0 kW	in
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at speed of

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

		Closed centre
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<i>Maximum lifting force at hitch points, at frame</i>	36.3 kN	29.6 kN
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At maximum hydraulic power

<i>Flow rate, Pressure, Power</i>	94.5 l/min	15.9 MPa	25.0 kW
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