



OECD approval number

2/2 339

Restricted Code

OECD approval date

29/03/2006

Make

Challenger

Model

MT 865B

Type

Rubber tracklaying tractor

16 speeds powershift - 40 km/h

Manufacturer

Agco Corp

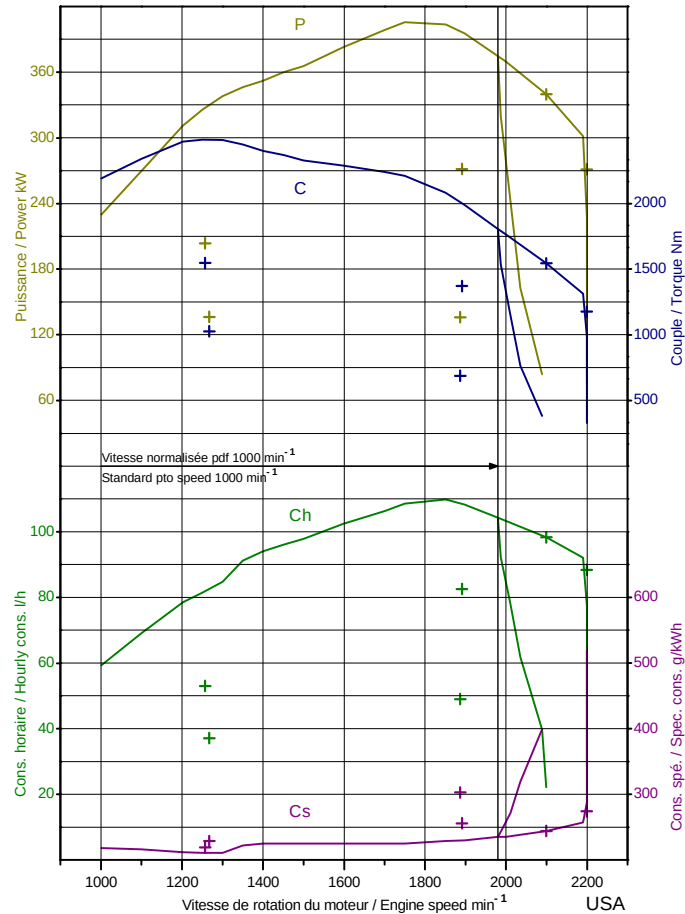
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

Challenger MT865B

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor

OCDE/OECD 2/2339



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Caterpillar	C-18
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	18130 cm ³	Liquid
<i>Gear box</i>		Powershift
<i>Number of forward and reverse speeds</i>	16	4
<i>Speed at rated engine speed</i>	from 2.69	to 40.00 km/h
<i>Standard Power take-off speed</i>	<u>540 min⁻¹</u>	<u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>		1061 min ⁻¹
<i>Diameter of the shaft</i>		44.45 mm
<i>Number of splines</i>		20

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	405.5 kW	1750 min ⁻¹	884 min ⁻¹
<i>Hourly and specific consumption</i>		108.59 l/h	225 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	339.8 kW	2099 min ⁻¹	1060 min ⁻¹
<i>Hourly and specific consumption</i>		98.33 l/h	244 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	374.5 kW	1980 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		104.34 l/h	235 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	2488.0 Nm	1251 min ⁻¹
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Drawbar Test

<i>Track length and track width</i>	- mm	914 mm
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Test with tractor

<i>Total Mass</i>	<u>unballasted</u>	<u>ballasted</u>
	20014 kg	25316 kg
<i>Maximum drawbar pull</i>	187.0 kN	232.7 kN
<i>at speed of</i>	3.93 km/h	3.85 km/h
<i>Maximum power</i>	354.1 kW	355.9 kW
<i>at speed of</i>	9.57 km/h	9.72 km/h

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>	Closed centre
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At maximum hydraulic power

<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	129.5 l/min	15.7 MPa	33.9 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	214.6 l/min	16.8 MPa	59.8 kW

Maximum lifting force

<i>at the hitch points, at frame</i>	98.5 kN	93.1 kN
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