



OECD approval number

2/2 342

Restricted Code

OECD approval date

14/04/2006

Make

Challenger

Model

MT 845B

Type

Rubber tracklaying tractor

16 speeds powershift - 40 km/h

Manufacturer

Agco Corp

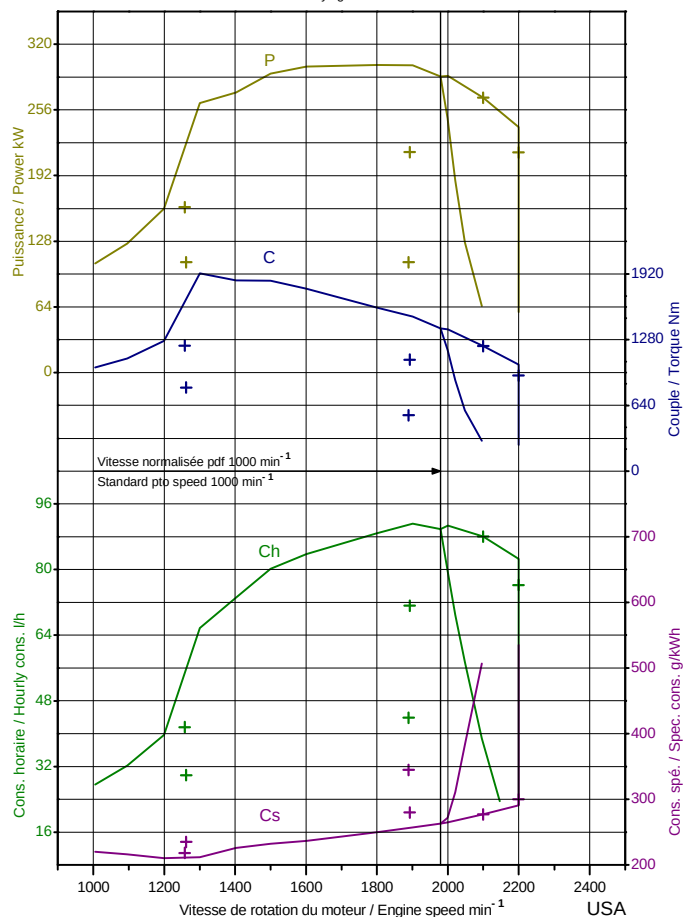
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

Challenger MT845B

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor

OCDE/OECD 2/2342



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Caterpillar	C-15
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	15200 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>	300.0 kW	1800 min ⁻¹	910 min ⁻¹
<i>Hourly and specific consumption</i>		88.81 l/h	250 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	268.1 kW	2100 min ⁻¹	1061 min ⁻¹
<i>Hourly and specific consumption</i>		88.05 l/h	277 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	288.6 kW	1979 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		89.93 l/h	263 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		1929.0 Nm	1300 min ⁻¹
---	--	-----------	------------------------

Drawbar Test

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

Test with tractor

<i>Total Mass</i>	<u>unballasted</u>	<u>ballasted</u>
	19525 kg	22600 kg
<i>Maximum drawbar pull</i>	189.2 kN	215.5 kN
<i>at speed of</i>	3.94 km/h	3.22 km/h
<i>Maximum power</i>	261.6 kW	265.0 kW
<i>at speed of</i>	7.89 km/h	7.93 km/h

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>	Closed centre		
-------------------------	---------------	--	--

At maximum hydraulic power

<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	137.8 l/min	15.4 MPa	35.4 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	162.8 l/min	18.6 MPa	50.4 kW

Maximum lifting force

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

