



OECD approval number

2/2 341

Restricted Code

OECD approval date

14/04/2006

Make

Challenger

Model

MT 835B

Type

Rubber tracklaying tractor

16 speeds powershift - 40 km/h

Manufacturer

Agco Corp

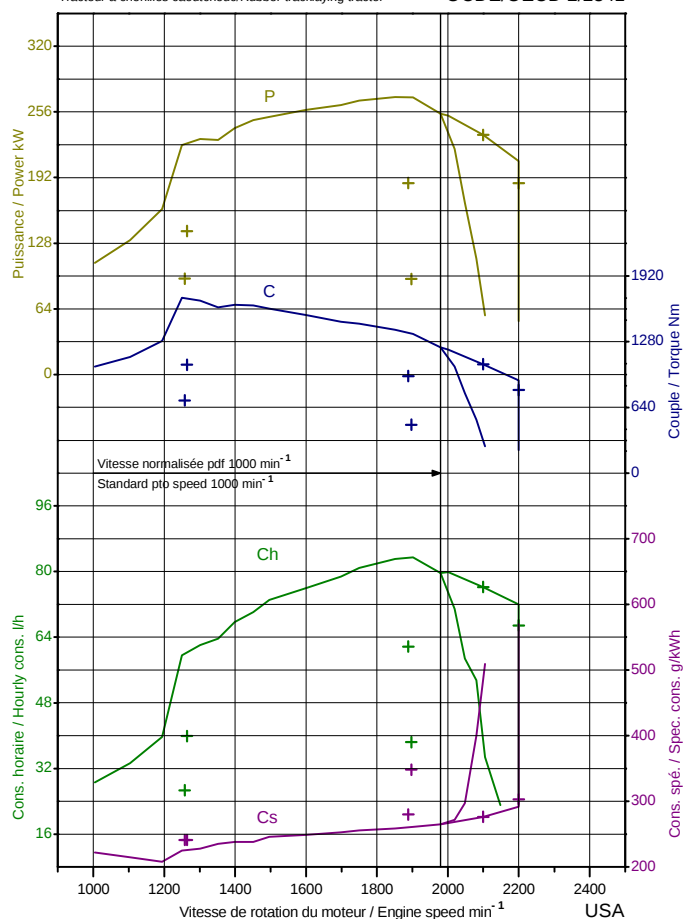
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

Challenger MT835B

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor

OCDE/OECD 2/2341



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>	270.6 kW	1851 min ⁻¹	935 min ⁻¹
<i>Hourly and specific consumption</i>		83.03 l/h	259 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	233.5 kW	2100 min ⁻¹	1061 min ⁻¹
<i>Hourly and specific consumption</i>		76.23 l/h	276 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	254.2 kW	1979 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		79.69 l/h	265 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		1710.0 Nm	1250 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>
	19755 kg	22600 kg
<i>Maximum drawbar pull</i>	189.2 kN	215.1 kN
<i>at speed of</i>	3.23 km/h	3.11 km/h
<i>Maximum power</i>	237.2 kW	239.3 kW
<i>at speed of</i>	8.15 km/h	6.39 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>	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
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