

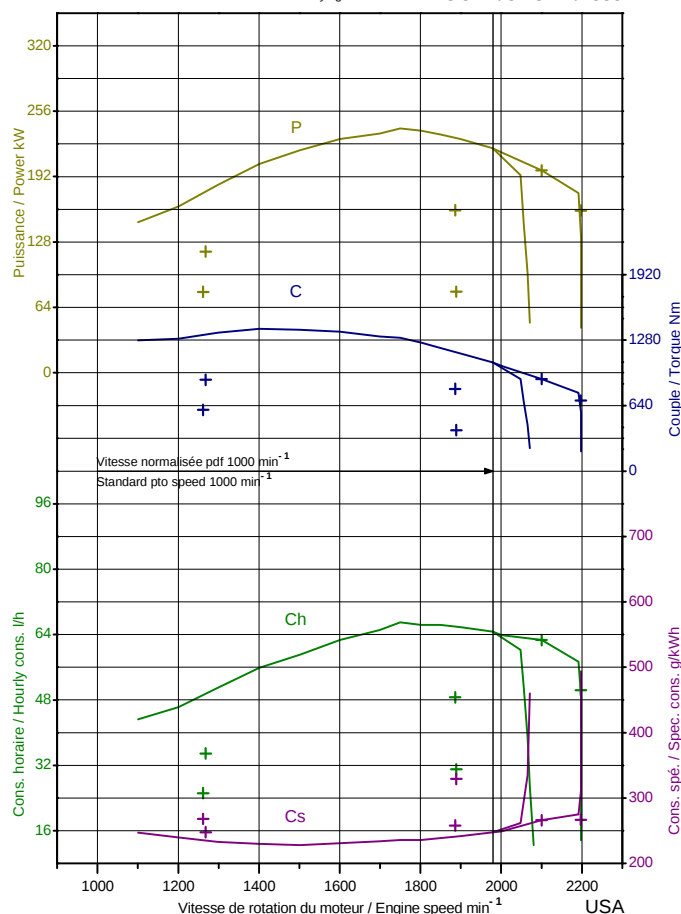


OECD approval number 2/2 338
Restricted Code
OECD approval date 29/03/2006
Make Challenger
Model MT 765B
Type Rubber tracklaying tractor
Manufacturer Agco Corp
Testing station: Nebraska Tractor Test Laboratory,
 Lincoln, USA

Challenger MT765B

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor

OCDE/OECD 2/2338



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Caterpillar	C-9
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	8810 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 2.67	to 39.65 km/h
<i><u>Standard Power take-off speed</u></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>	239.2 kW	1750 min ⁻¹	884 min ⁻¹
<i>Hourly and specific consumption</i>		67.00 l/h	236 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	198.2 kW	2100 min ⁻¹	1060 min ⁻¹
<i>Hourly and specific consumption</i>		62.73 l/h	266 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	219.8 kW	1979 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		64.66 l/h	248 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		1392.0 Nm	1401 min ⁻¹
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Drawbar Test

<i>Track length and track width</i>	- mm	457 mm
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Test with tractor

<i>Total Mass</i>	<u>unballasted</u>	<u>ballasted</u>
	14099 kg	16203 kg
<i>Maximum drawbar pull</i>	129.1 kN	151.9 kN
<i>at speed of</i>	3.87 km/h	3.10 km/h
<i>Maximum power</i>	200.7 kW	205.2 kW
<i>at speed of</i>	9.49 km/h	9.54 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</i>	149.5 l/min	14.9 MPa	37.0 kW
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Maximum lifting force

<i>at hitch points, at frame</i>		81.7 kN	76.8 kN
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