



OECD approval number

2/2 051

Restricted Code

OECD approval date

04/03/2003

Make

Challenger

Model

MT765

Type

Rubber tracklaying tractor

Manufacturer

Agco Corp

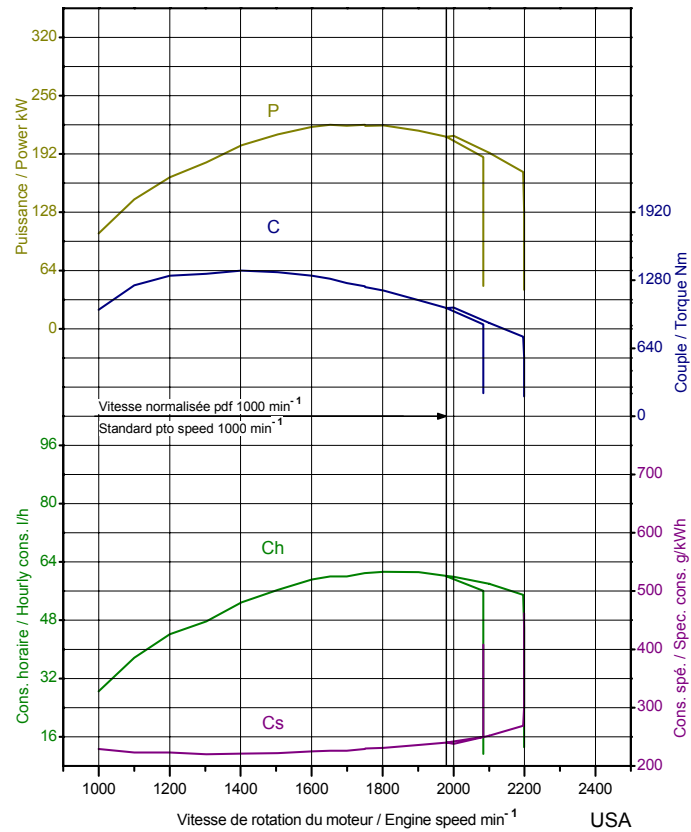
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

Challenger MT765

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor

OCDE/OECD 2/2051



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>		Mechanical 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
<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>		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>	222.8 kW	1751 min ⁻¹	884 min ⁻¹
<i>Hourly and specific consumption</i>		61.03 l/h	230 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	193.4 kW	2100 min ⁻¹	1060 min ⁻¹
<i>Hourly and specific consumption</i>		58.02 l/h	252 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	211.0 kW	1980 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		60.17 l/h	240 g/kWh

Torque rise

		56.1 %	
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Maximum torque, Engine speed corresponding

1372.0 Nm	1402 min ⁻¹
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Drawbar Test*Track length and track width*

- mm	635 mm
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Test with tractor

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

13315 kg	13986 kg
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Maximum drawbar pull

125.6 kN	133.8 kN
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at speed of

3.81 km/h	3.82 km/h
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Maximum power

191.9 kW	192.8 kW
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at speed of

9.51 km/h	9.51 km/h
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Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power

<i>Flow rate, Pressure, Power</i>	159.4 l/min	18.7 MPa	49.5 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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