



OECD approval number

2/2 053

Restricted Code

OECD approval date

05/03/03

Make

Challenger

Model

MT865

Type

Rubber tracklaying tractor

Manufacturer

Agco Corp

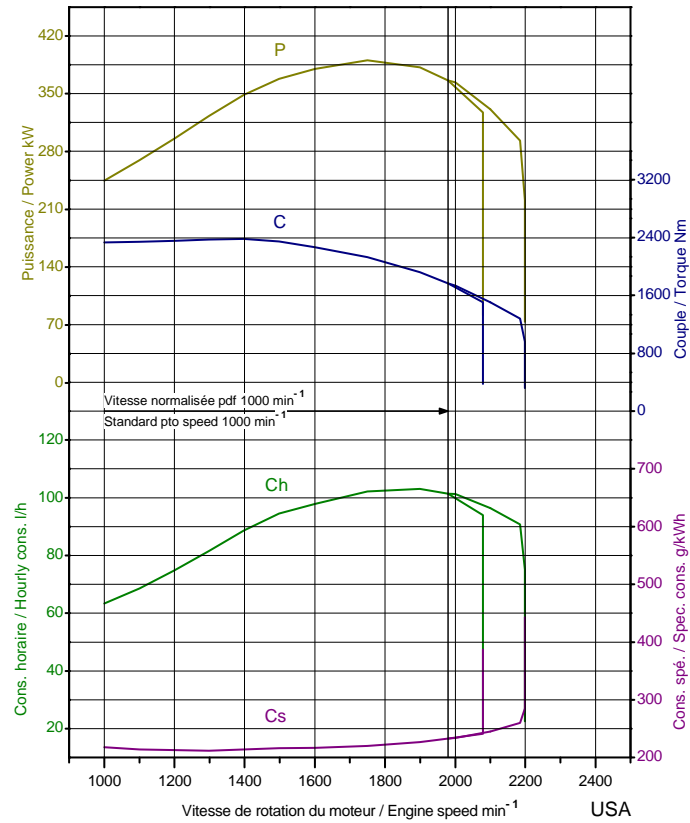
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

Challenger MT865

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor

OCDE/OECD 2/2053



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Caterpillar	C-16
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	in line
<i>Capacity, Cooling</i>	15770 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 2.69	to 40.00 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 Test

Two hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	390.5 kW	1750 min ⁻¹	884 min ⁻¹
<i>Hourly and specific consumption</i>		102.24 l/h	220 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	331.2 kW	2100 min ⁻¹	1061 min ⁻¹
<i>Hourly and specific consumption</i>		96.45 l/h	245 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	366.1 kW	1980 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		101.45 l/h	233 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	2383.0 Nm	1398 min ⁻¹	58.2 %
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Drawbar Test

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

<i>Total Mass</i>	<u>unballasted</u>	<u>ballasted</u>
	20062 kg	25326 kg
<i>Maximum drawbar pull</i>	192.2 kN	258.1 kN
<i>at speed of</i>	3.96 km/h	3.19 km/h
<i>Maximum power</i>	335.7 kW	336.8 kW
<i>at speed of</i>	9.67 km/h	9.76 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>	-	-	-
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	206.8 l/min	18.4 MPa	63.5 kW

Maximum lifting force

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