



OECD approval number

2/2 052

Restricted Code

OECD approval date

05/03/03

Make

Challenger

Model

MT855

Type

Rubber tracklaying tractor

Manufacturer

Agco Corp

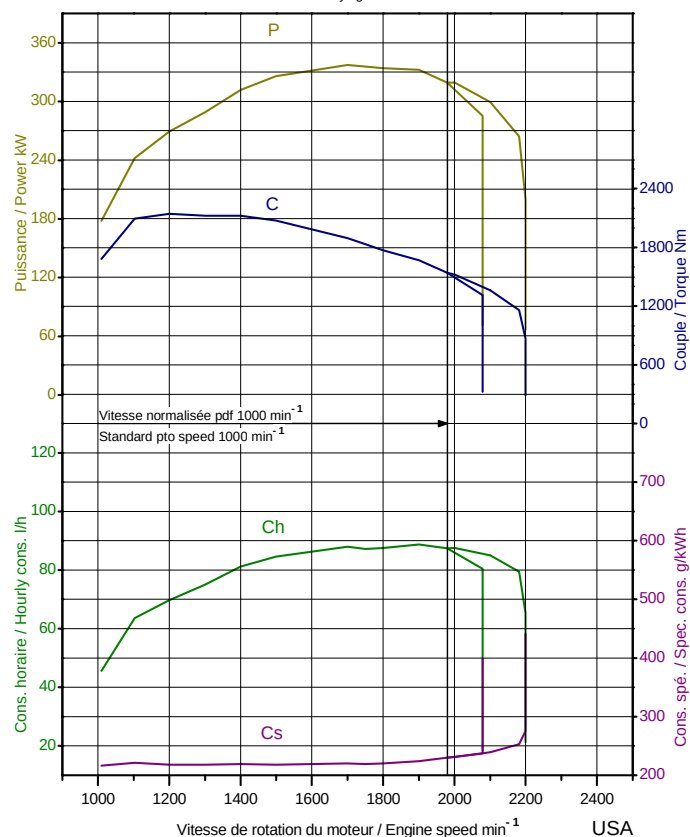
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

Challenger MT855

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor

OCDE/OECD 2/2052



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	in line
<i>Capacity, Cooling</i>	14646 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 TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	337.3 kW	1700 min ⁻¹	859 min ⁻¹
<i>Hourly and specific consumption</i>		88.04 l/h	220 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	299.3 kW	2100 min ⁻¹	1060 min ⁻¹
<i>Hourly and specific consumption</i>		85.04 l/h	239 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	319.4 kW	1979 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		87.45 l/h	230 g/kWh

Torque rise

			57.5 %
<u>Maximum torque, Engine speed corresponding</u>		2144.0 Nm	1200 min ⁻¹

Drawbar Test

<i>Track length and track width</i>	- mm	914 mm
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	19847 kg	23988 kg
<i>Maximum drawbar pull</i>	192.1 kN	236.8 kN
<i>at speed of</i>	3.85 km/h	3.13 km/h
<i>Maximum power</i>	293.3 kW	299.9 kW
<i>at speed of</i>	9.44 km/h	7.47 km/h

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>	Closed centre		
<u>At maximum hydraulic power</u>			
<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
<u>Maximum lifting force</u>			
<i>at the hitch points, at frame</i>		98.5 kN	93.1 kN

