



OECD approval number

2/2 076

Restricted Code

OECD approval date

27/08/03

Make

Challenger

Model

MT845

Type

Rubber tracklaying tractor

Manufacturer

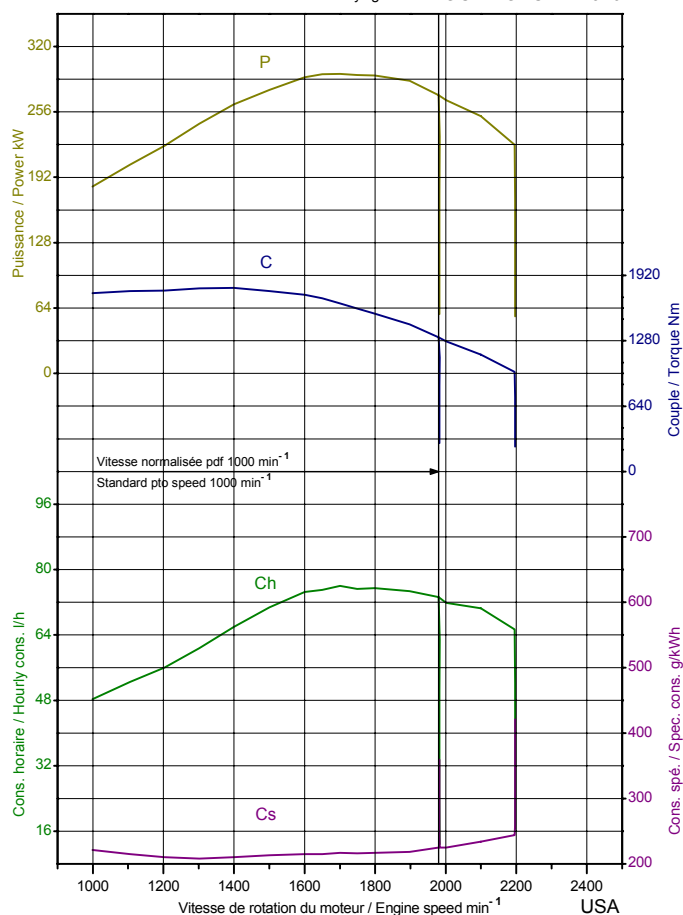
AGCO Corp

Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

Challenger MT845

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor OCDE/OECD 2/2076



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Caterpillar	C-12
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	in line
<i>Capacity, Cooling</i>	11946 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>	293.2 kW	1700 min ⁻¹	859 min ⁻¹
<i>Hourly and specific consumption</i>		75.96 l/h	217 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	251.9 kW	2100 min ⁻¹	1061 min ⁻¹
<i>Hourly and specific consumption</i>		70.49 l/h	234 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	272.4 kW	1980 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		73.26 l/h	225 g/kWh

Torque rise

		56.9 %
--	--	--------

Maximum torque, Engine speed corresponding

1797.0 Nm	1400 min ⁻¹
-----------	------------------------

Drawbar Test*Track length and track width*

- mm	762 mm
------	--------

Test with tractor

<u>unballasted</u>	<u>ballasted</u>
--------------------	------------------

Total Mass

18901 kg	22423 kg
----------	----------

Maximum drawbar pull

172.9 kN	221.1 kN
----------	----------

at speed of

3.97 km/h	3.13 km/h
-----------	-----------

Maximum power

253.8 kW	256.9 kW
----------	----------

at speed of

9.46 km/h	7.44 km/h
-----------	-----------

Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power

<i>Flow rate, Pressure, Power</i>	161.3 l/min	17.9 MPa	48.2 kW
-----------------------------------	-------------	----------	---------

Maximum lifting force

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