

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/2 877
OECD Approval Date	26/02/2015
Make	Challenger
Model	MT775E
Type	Rubber Tracked
Transmission	Powershift
Speed	40 km/h
Manufacturer	AGCO Corporation
Testing Station	NTTL – USA



SPECIFICATIONS

ENGINE

<i>Make</i>	AGCO POWER
<i>Model</i>	9.8L AWF
<i>Type</i>	Direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	7
<i>Disposition</i>	vertical in line
<i>Capacity</i>	9822 cm ³
<i>Cooling</i>	Liquid

TRANSMISSION

<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

POWER TAKE-OFF SPECIFICATIONS

<i>Standard Power take-off speed</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>	Not available	44,45 mm
<i>Number of splines</i>		20

PTO TEST RESULTS

One hour test at maximum power

Power, Engine and Power take-off speed	279,2 kW	1701 min ⁻¹	859 min ⁻¹
Hourly and specific consumption		76,29 l/h	230 g/kWh
Hourly and specific urea consumption		2,69 l/h	10,5 g/kWh

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	249,6 kW	2099 min ⁻¹	1060 min ⁻¹
Hourly and specific consumption		78,68 l/h	265 g/kWh
Hourly and specific urea consumption		2,87 l/h	12,5 g/kWh

Test at standard Power take-off speed

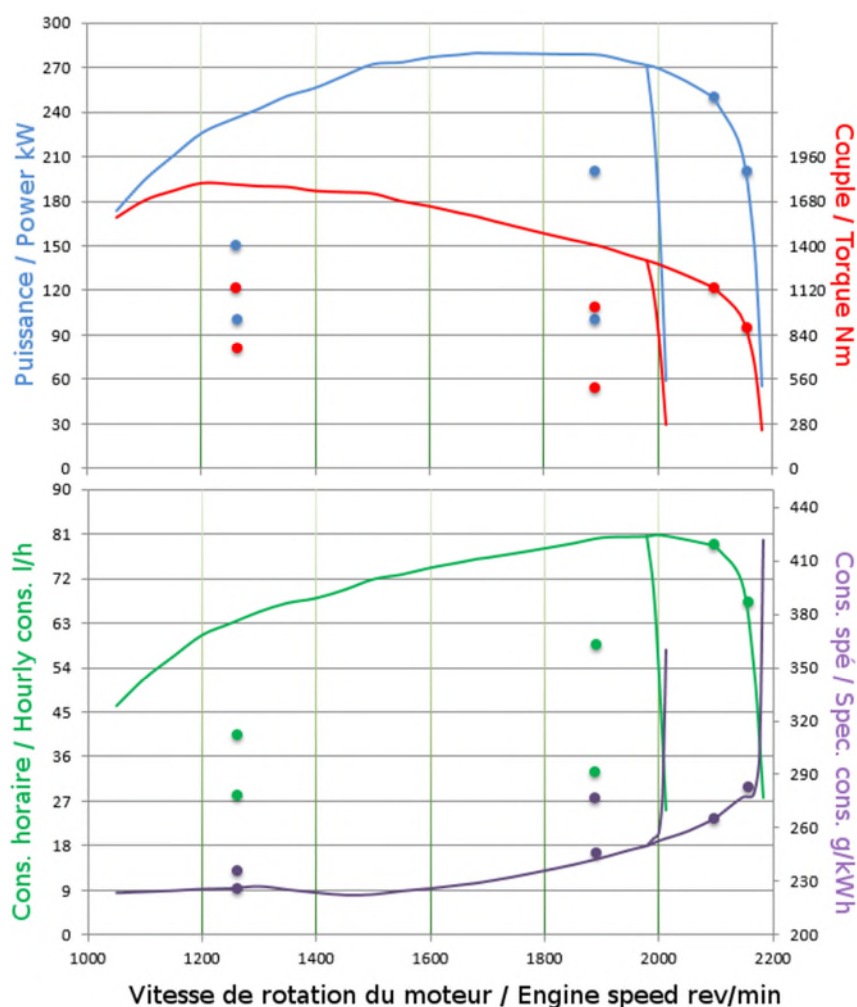
Power, Engine and Power take-off speed	271,4 kW	1980 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		80,61 l/h	250 g/kWh
Hourly and specific urea consumption		2,99 l/h	12,0 g/kWh

Torque rise

58,2 %

Maximum torque, Engine speed corresponding

1796,6 Nm

1201 min⁻¹

 PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

Not applicable

 HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system

Closed centre

Relief valve pressure setting (tolerance):

20,3 ± 0,3 MPa

 HYDRAULIC PERFORMANCES

At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	139,2 l/min	16,33 MPa	37,9 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	303,4 l/min	18,88 MPa	95,5 kW

 POWER LIFT

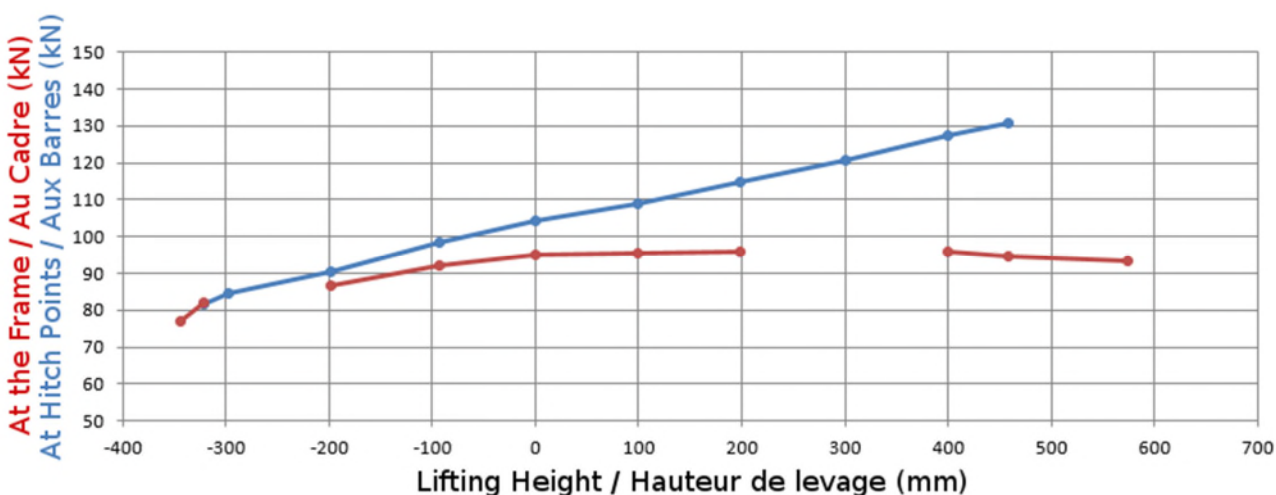
Maximum lifting force

at the hitch points

81,7 kN

at the frame

76,8 kN

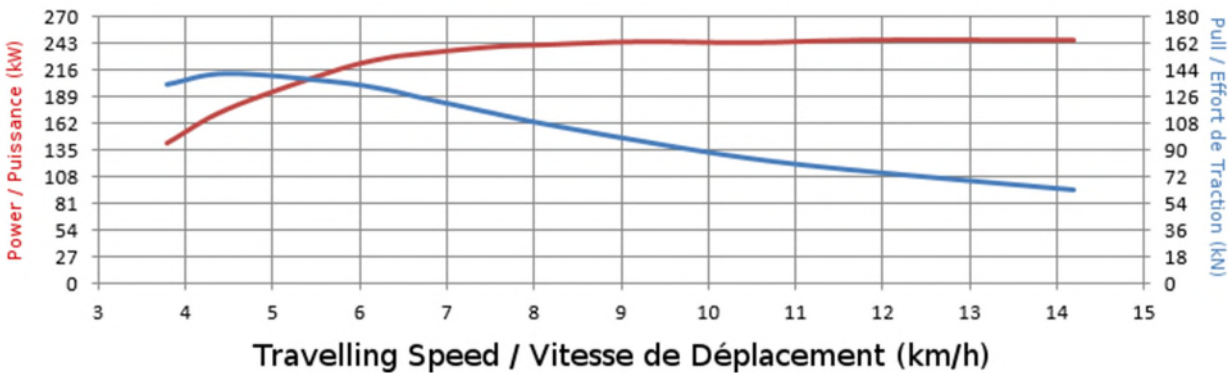


DRAWBAR TEST

Front tyres, Rear tyres	Not available
Inflation pressure	Not available

UNBALLASTED

Total Mass	15304 kg
Maximum drawbar pull	141,96 kN
at speed of	4,47 km/h
Maximum power	247,27 kW
at speed of	11,84 km/h



BALLASTED

Total Mass	17615 kg
Maximum drawbar pull	148,04 kN
at speed of	4,28 km/h
Maximum power	248,00 kW
at speed of	9,25 km/h

