

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/2 873
OECD Approval Date	13/02/2015
Make	Challenger
Model	MT755E
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	243,2 kW	1800 min ⁻¹	909 min ⁻¹
Hourly and specific consumption		68,16 l/h	236 g/kWh
Hourly and specific urea consumption		4,78 l/h	21,4 g/kWh

Test at maximum power at rated engine speed

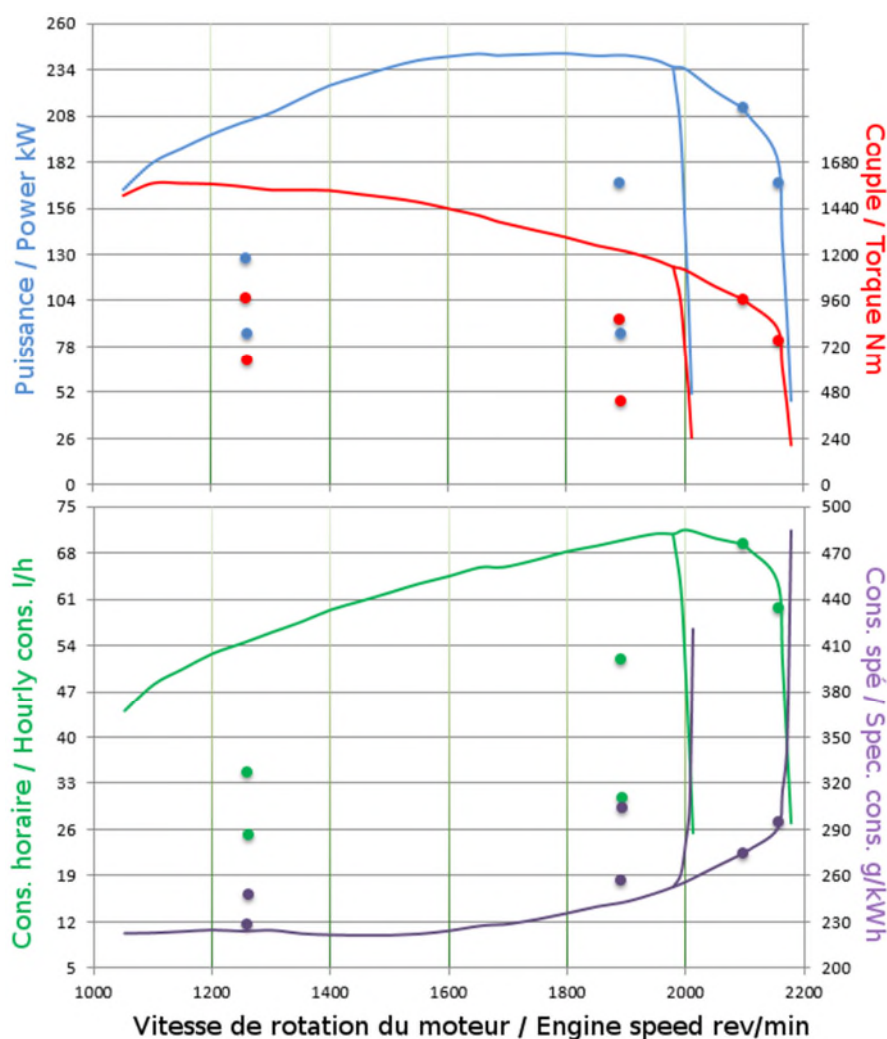
Power, Engine and Power take-off speed	212,4 kW	2099 min ⁻¹	1060 min ⁻¹
Hourly and specific consumption		69,26 l/h	274 g/kWh
Hourly and specific urea consumption		4,17 l/h	21,3 g/kWh

Test at standard Power take-off speed

Power, Engine and Power take-off speed	235,7 kW	1980 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		70,82 l/h	253 g/kWh
Hourly and specific urea consumption		4,82 l/h	22,2 g/kWh

Torque rise

Maximum torque, Engine speed corresponding	1572,8 Nm	1101 min ⁻¹	62,8 %
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 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)	130,8 l/min	16,44 MPa	35,8 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	212,0 l/min	19,56 MPa	69,1 kW

 POWER LIFT

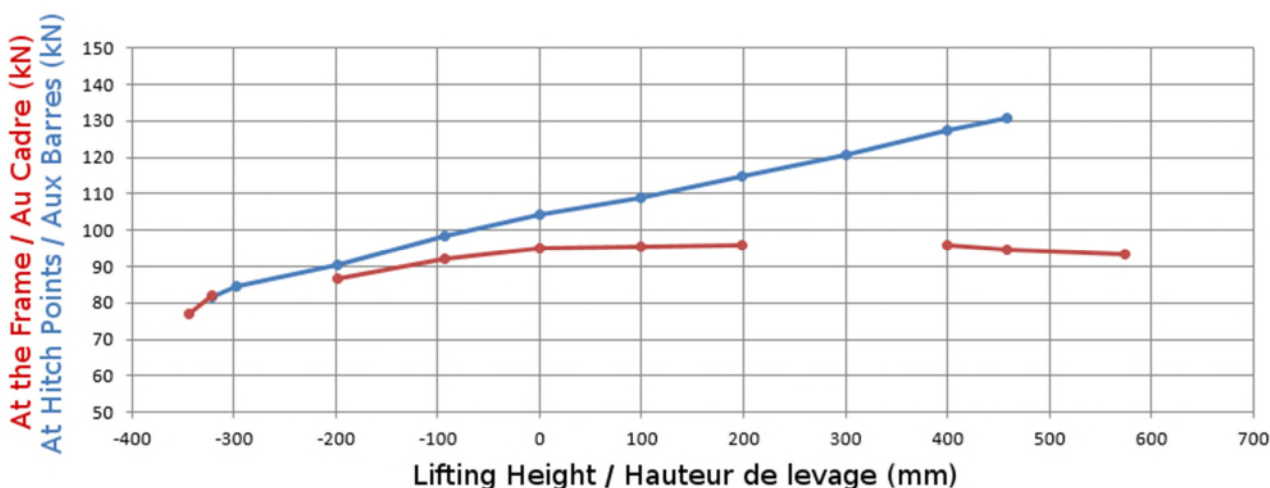
Maximum lifting force

at the hitch points

81,7 kN

at the frame

76,8 kN

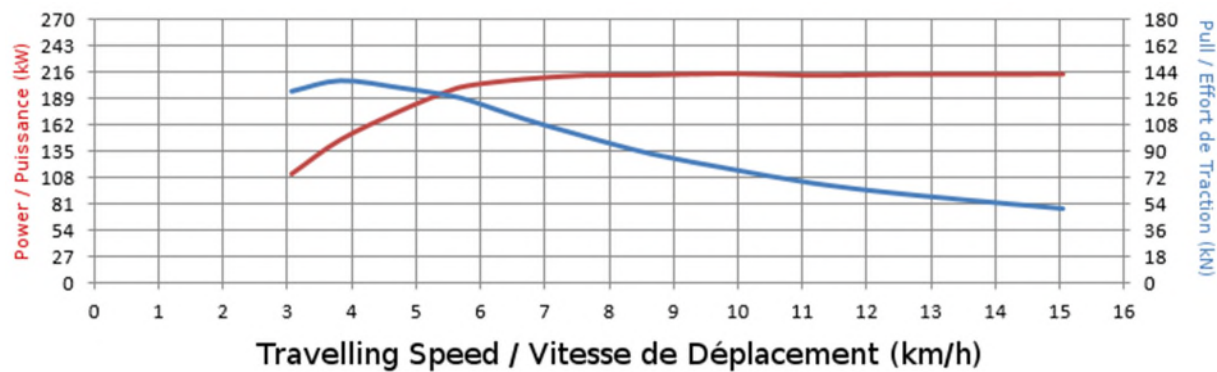


DRAWBAR TEST

Front tyres, Rear tyres	Not available
Inflation pressure	Not available

UNBALLASTED

Total Mass	15079 kg
Maximum drawbar pull	138,16 kN
at speed of	3,83 km/h
Maximum power	214,00 kW
at speed of	9,83 km/h



BALLASTED

Total Mass	17615 kg
Maximum drawbar pull	146,10 kN
at speed of	3,42 km/h
Maximum power	215,98 kW
at speed of	9,88 km/h

