

# OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

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<b>OECD Approval Number</b>	<b>2/2 876</b>
<b>OECD Approval Date</b>	<b>26/02/2015</b>
<b>Make</b>	<b>Challenger</b>
<b>Model</b>	<b>MT765E</b>
<b>Type</b>	<b>Rubber Tracked</b>
<b>Transmission</b>	<b>Powershift</b>
<b>Speed</b>	<b>40 km/h</b>
<b>Manufacturer</b>	<b>AGCO Corporation</b>
<b>Testing Station</b>	<b>NTTL – USA</b>



## 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 <sup>3</sup>
<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<sup>-1</sup></u>	<u>1000 min<sup>-1</sup></u>
<i>Power take-off speed at rated engine speed</i>		1061 min <sup>-1</sup>
<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	266,3 kW	1800 min <sup>-1</sup>	909 min <sup>-1</sup>
Hourly and specific consumption		74,00 l/h	234 g/kWh
Hourly and specific urea consumption		4,96 l/h	20,3 g/kWh

### Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	232,6 kW	2099 min <sup>-1</sup>	1060 min <sup>-1</sup>
Hourly and specific consumption		74,43 l/h	269 g/kWh
Hourly and specific urea consumption		4,12 l/h	19,3 g/kWh

### Test at standard Power take-off speed

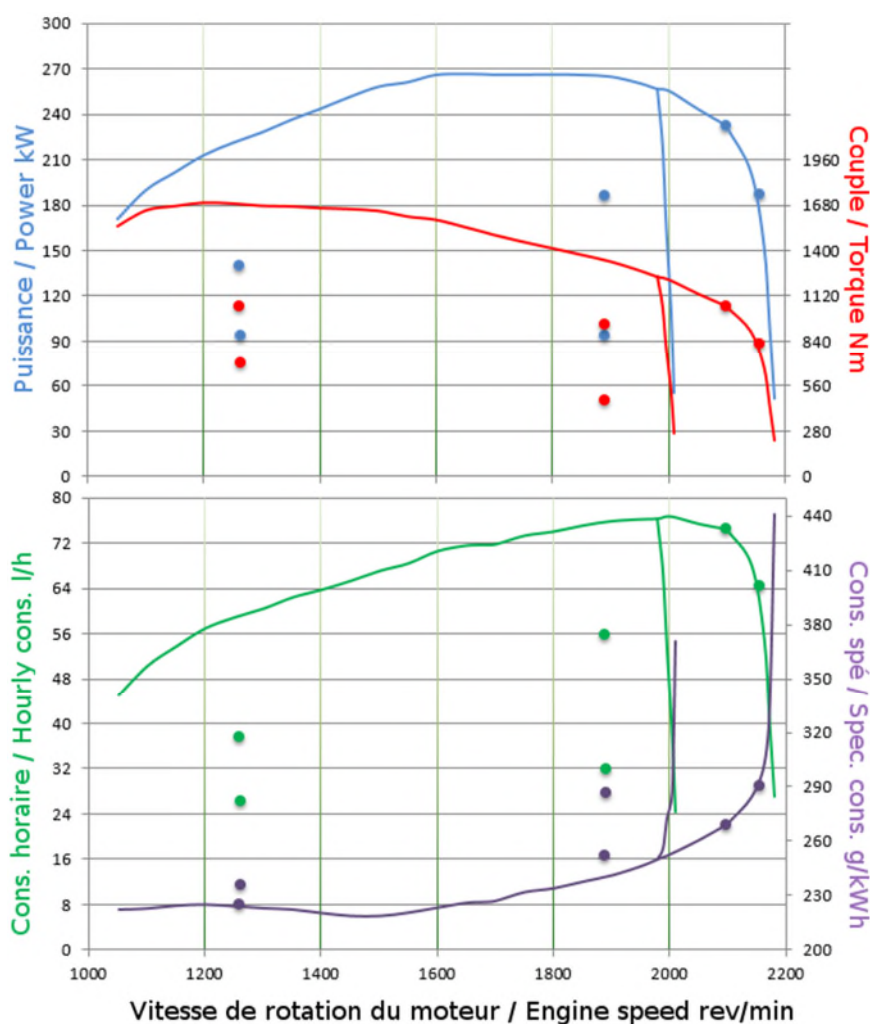
Power, Engine and Power take-off speed	256,7 kW	1980 min <sup>-1</sup>	1000 min <sup>-1</sup>
Hourly and specific consumption		76,27 l/h	250 g/kWh
Hourly and specific urea consumption		4,73 l/h	20,0 g/kWh

### Torque rise

59,9 %

### Maximum torque, Engine speed corresponding

1693,0 Nm

1200 min<sup>-1</sup>

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 PARTICULATE FILTER ACTIVE REGENERATION FUEL USE
 

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*Not applicable*

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 HYDRAULIC PERFORMANCE AND POWER LIFT TEST
 

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Hydraulic system

Closed centre

Relief valve pressure setting (tolerance):

20,3 ± 0,3 MPa

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 HYDRAULIC PERFORMANCES
 

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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

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 POWER LIFT
 

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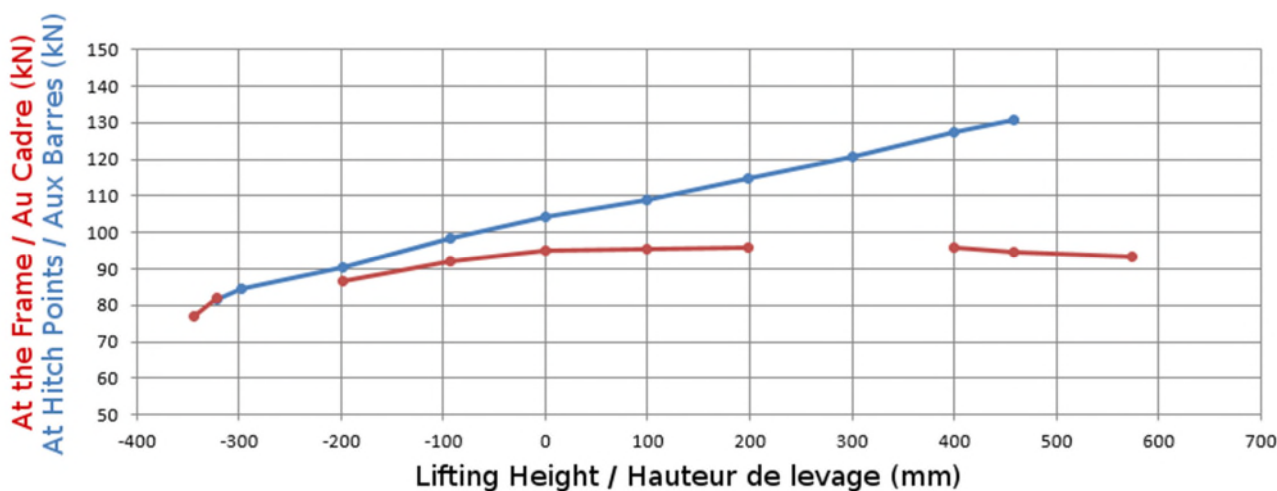
Maximum lifting force

at the hitch points

81,7 kN

at the frame

76,8 kN

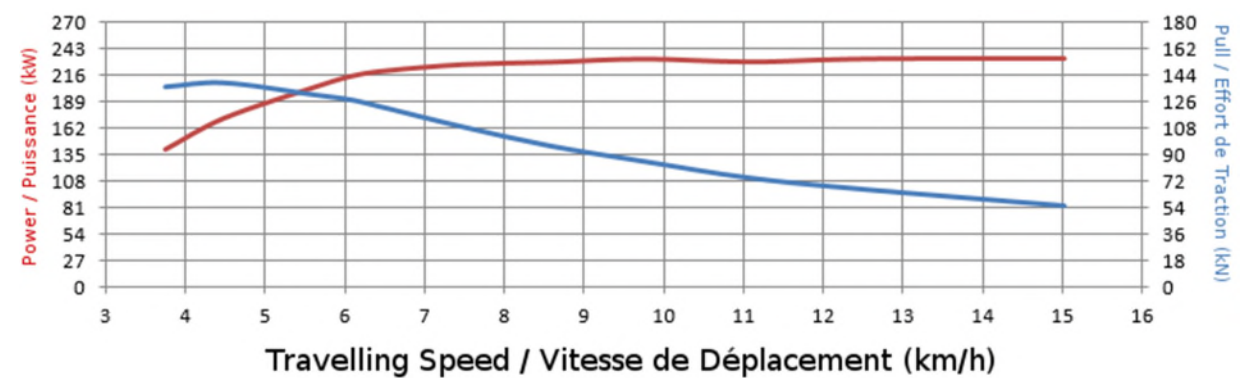


DRAWBAR TEST

Front tyres, Rear tyres	Not available
Inflation pressure	Not available

UNBALLASTED

Total Mass	15079 kg
Maximum drawbar pull	138,60 kN
at speed of	4,48 km/h
Maximum power	232,36 kW
at speed of	15,02 km/h



BALLASTED

Total Mass	17615 kg
Maximum drawbar pull	146,23 kN
at speed of	4,46 km/h
Maximum power	235,53 kW
at speed of	9,84 km/h

