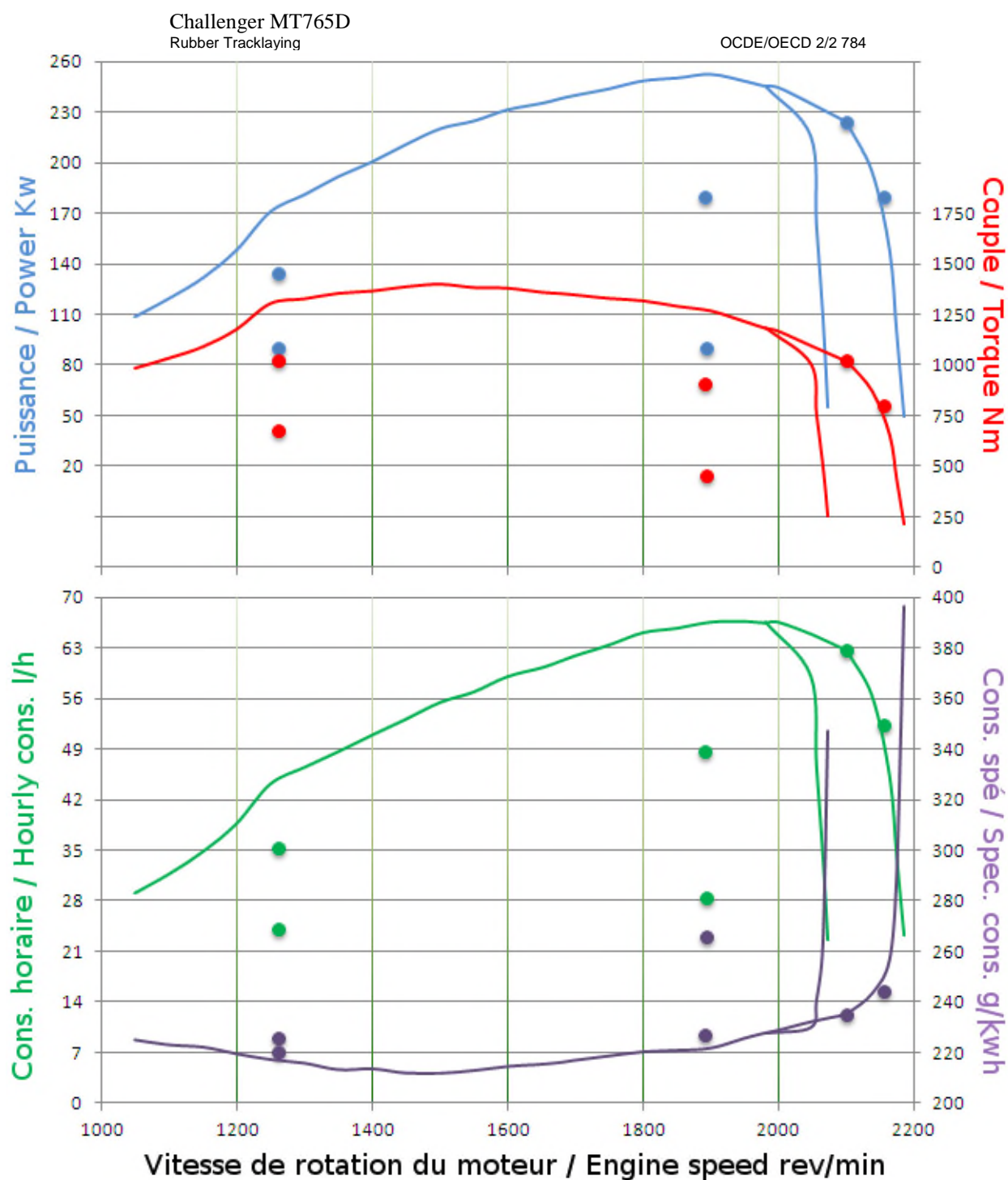




OECD approval number
OECD approval date
Make
Model
Type

Manufacturer:
Testing station:

2/2 784
19/09/2013
Challenger
MT765D
Rubber Tracklaying
Full PowerShift - 40 km/h
AGCO Corporation
Nebraska Tractor Test Laboratory
Lincoln, Nebraska U.S.A.



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	AGCO Power	84AWI778
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	8419 cm ³	Liquid
<i>Gear box</i>		Full 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
<u>Standard Power take-off speed</u>	540 min ⁻¹	1000 min ⁻¹
<i>Power take-off speed at rated engine speed</i>		1061 min ⁻¹
<i>Diameter of the shaft</i>	Not	44,45 mm
<i>Number of splines</i>	Applicable	20

Power take-off TestOne hour test at maximum power

<i>Power, Engine and Power take-off speed</i>	252,54 kW	1901 min ⁻¹	960 min ⁻¹
<i>Hourly and specific consumption</i>		66,66 l/h	222 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	224,23 kW	2101 min ⁻¹	1061 min ⁻¹
<i>Hourly and specific consumption</i>		62,73 l/h	235 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	245,56 kW	1980 min ⁻¹	999 min ⁻¹
<i>Hourly and specific consumption</i>		66,55 l/h	228 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	1401,1 Nm		1501 min ⁻¹
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Drawbar Test*Front tyres, Rear tyres*

<u>Test with tractor</u>	unballasted	ballasted
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<i>Total Mass</i>	14011 kg	16254 kg
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<i>Maximum drawbar pull</i>	133,06 kN	162,92 kN
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<i>at speed of</i>	3,74 km/h	3,41 km/h
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<i>Maximum power</i>	225,54 kW	230,53 kW
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<i>at speed of</i>	10,36 km/h	10,44 km/h
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Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power

<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	140,6 l/min	18,56 MPa	43,5 kW
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<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	216,6 l/min	20,44 MPa	73,8 kW
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Maximum lifting force

<i>at the hitch points, at frame</i>	81,7 kN	76,8 kN
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