

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/2 910
OECD Approval Date	21/09/2015
Make	Massey Ferguson
Model	8737 DynaVT
Type	4WD
Transmission	Dyna VT
Speed	40 km/h
Manufacturer	AGCO S.A.S.
Testing Station	IRSTEA – France



SPECIFICATIONS

ENGINE

<i>Make</i>	AGCO POWER Inc
<i>Model</i>	84AWF 944
<i>Type</i>	Direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	6
<i>Disposition</i>	vertical in line
<i>Capacity</i>	8419 cm ³
<i>Cooling</i>	Liquid

TRANSMISSION

<i>Gear box</i>	Dyna VT
<i>Number of forward and reverse speeds</i>	-
<i>Speed at rated engine speed</i>	from 0,0 to 40,0 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>	719 min ⁻¹	1066 min ⁻¹
<i>Diameter of the shaft</i>	34,9 mm	34,9 mm
<i>Number of splines</i>	6	21

PTO TEST RESULTS

One hour test at maximum power

Power, Engine and Power take-off speed	243,4 kW	1952 min ⁻¹	991 min ⁻¹
Hourly and specific consumption		66,34 l/h	228 g/kWh
Hourly and specific urea consumption		2,88 l/h	12,8 g/kWh-

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	227,3 kW	2097 min ⁻¹	1065 min ⁻¹
Hourly and specific consumption		66,02 l/h	243 g/kWh
Hourly and specific urea consumption		3,10 l/h	14,8 g/kWh-

Test at standard Power take-off speed

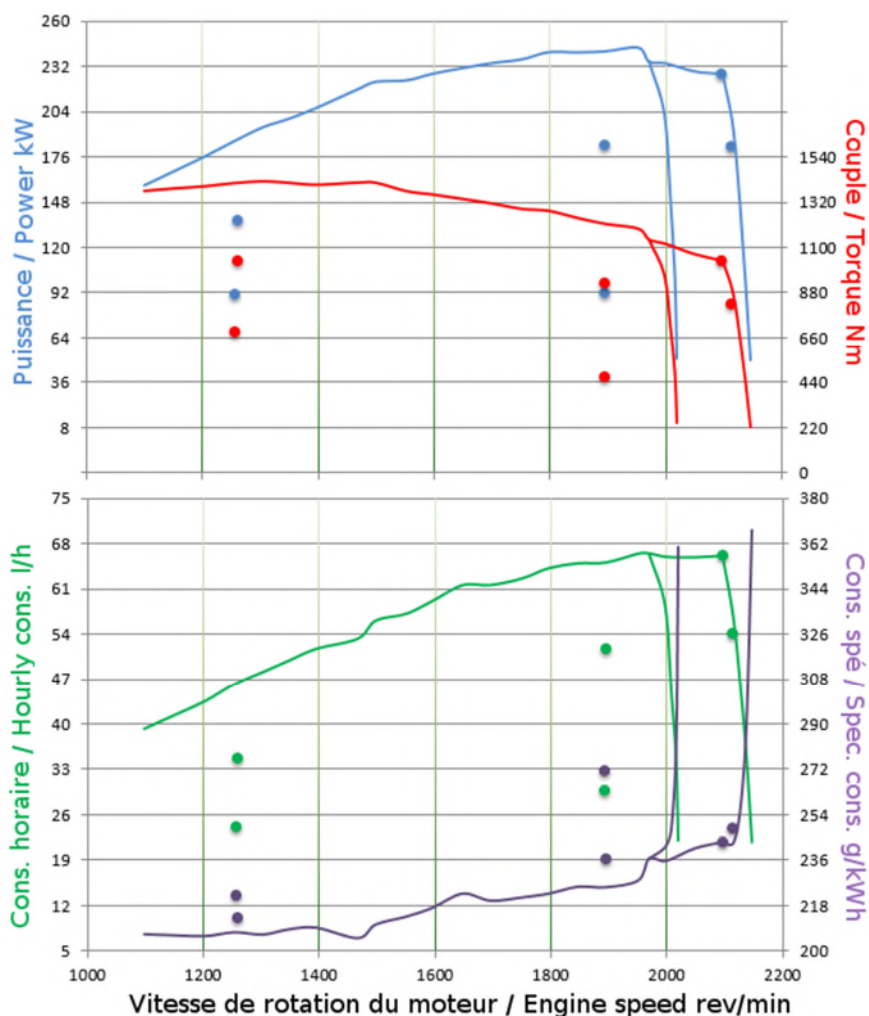
Power, Engine and Power take-off speed	234,7 kW	1970 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		66,38 l/h	236 g/kWh
Hourly and specific urea consumption		3,15 l/h	14,6 g/kWh-

Torque rise

		37,6 %
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Maximum torque, Engine speed corresponding

	1423,9 Nm	1304 min ⁻¹
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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):

21 ± 1,5 MPa

 HYDRAULIC PERFORMANCES

At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	127,9 l/min	15,6 MPa	33,2 kW
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Flow rate, Pressure, Power (couplers: 2 pairs or +)	179,2 l/min	16,8 MPa	50,2 kW
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 POWER LIFT

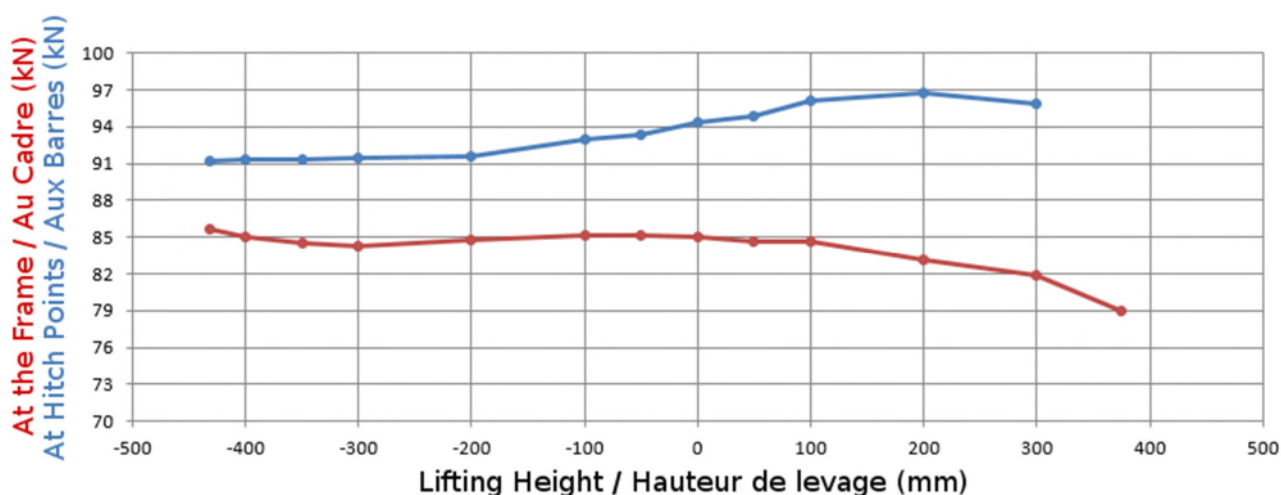
Maximum lifting force

at the hitch points

91,2 kN

at the frame

79,0 kN

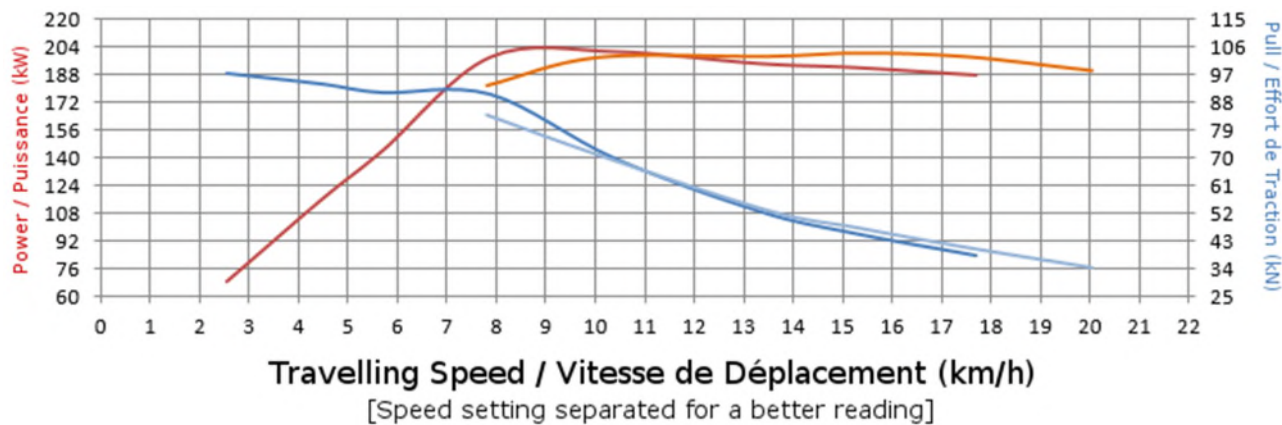


DRAWBAR TEST

Front tyres, Rear tyres	600/65 R34	710/75 R42
Inflation pressure	130 kPa	80 kPa

UNBALLASTED

Total Mass	11190 kg
Maximum drawbar pull	97,3 kN
at speed of	2,55 km/h
Maximum power	201,2 kW
at speed of	10,39 km/h



BALLASTED

Not Applicable