

# OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

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<b>OECD Approval Number</b>	<b>2/2 906</b>
<b>OECD Approval Date</b>	<b>21/09/2015</b>
<b>Make</b>	<b>Massey Ferguson</b>
<b>Model</b>	<b>8727 DynaVT</b>
<b>Type</b>	<b>4WD</b>
Transmission	Dyna VT
Speed	40 km/h
Manufacturer	AGCO S.A.S.
Testing Station	IRSTEA – France



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## SPECIFICATIONS

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### ENGINE

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<i>Make</i>	AGCO POWER Inc
<i>Model</i>	84AWF 1018
<i>Type</i>	Direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	6
<i>Disposition</i>	vertical in line
<i>Capacity</i>	8419 cm <sup>3</sup>
<i>Cooling</i>	Liquid

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### TRANSMISSION

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<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

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### POWER TAKE-OFF SPECIFICATIONS

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<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>	719 min <sup>-1</sup>	1066 min <sup>-1</sup>
<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	180,9 kW	1950 min <sup>-1</sup>	990 min <sup>-1</sup>
Hourly and specific consumption		51,16 l/h	236 g/kWh
Hourly and specific urea consumption		2,84 l/h	17,01 g/kWh-

Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	162,4 kW	2098 min <sup>-1</sup>	1065 min <sup>-1</sup>
Hourly and specific consumption		48,76 l/h	251 g/kWh
Hourly and specific urea consumption		2,80 l/h	18,71 g/kWh-

Test at standard Power take-off speed

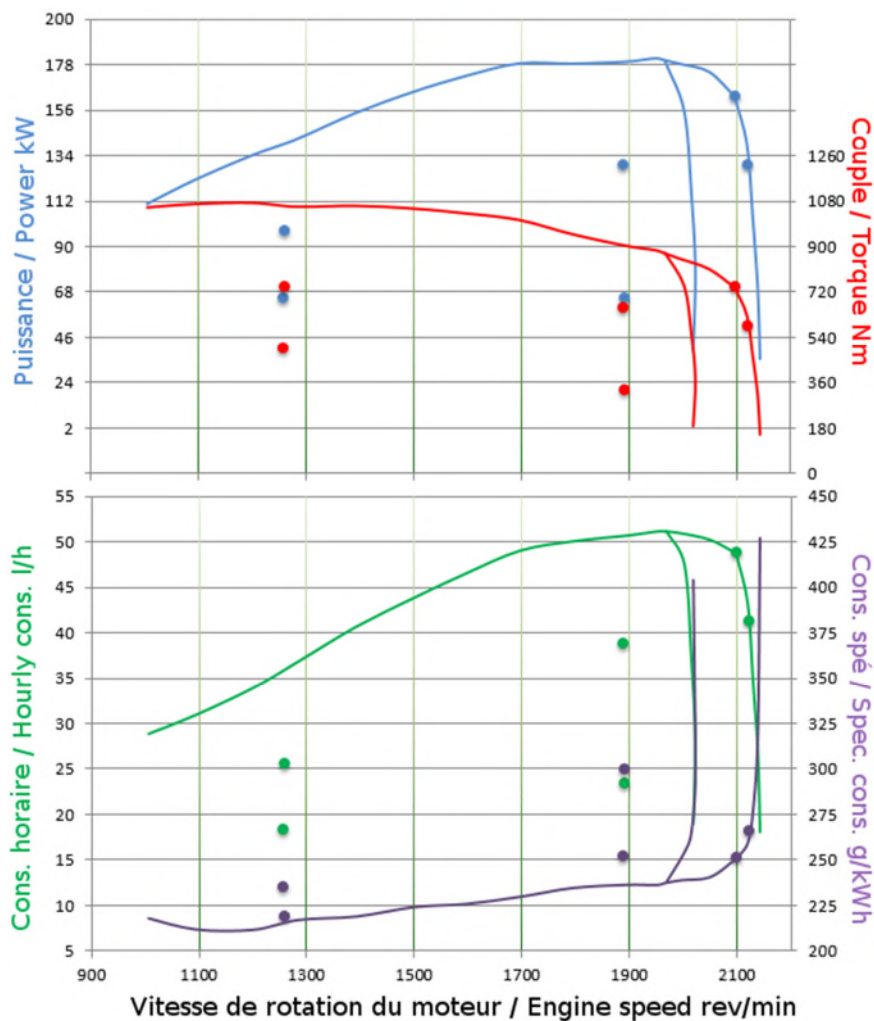
Power, Engine and Power take-off speed	180,0 kW	1968 min <sup>-1</sup>	999 min <sup>-1</sup>
Hourly and specific consumption		51,16 l/h	238 g/kWh
Hourly and specific urea consumption		2,84 l/h	17,10 g/kWh-

Torque rise

44,9 %

Maximum torque, Engine speed corresponding

1070,8 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):

21 ± 1,5 MPa

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 HYDRAULIC PERFORMANCES
 

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At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair) 127,9 l/min 15,6 MPa 33,2 kW

Flow rate, Pressure, Power (couplers: 2 pairs or +) 179,2 l/min 16,8 MPa 50,2 kW

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 POWER LIFT
 

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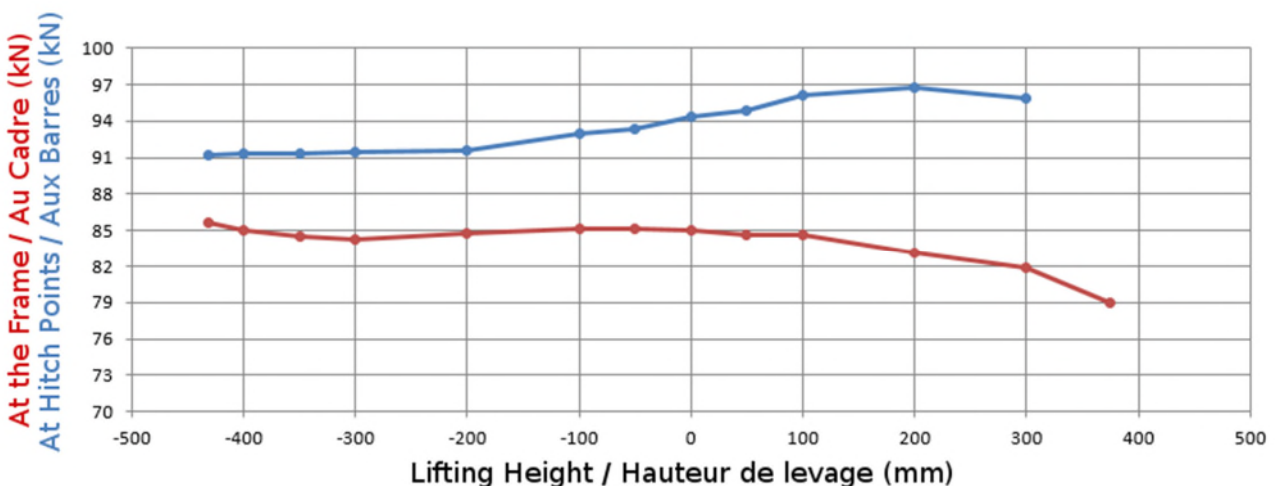
Maximum lifting force

at the hitch points

91,2 kN

at the frame

79,0 kN

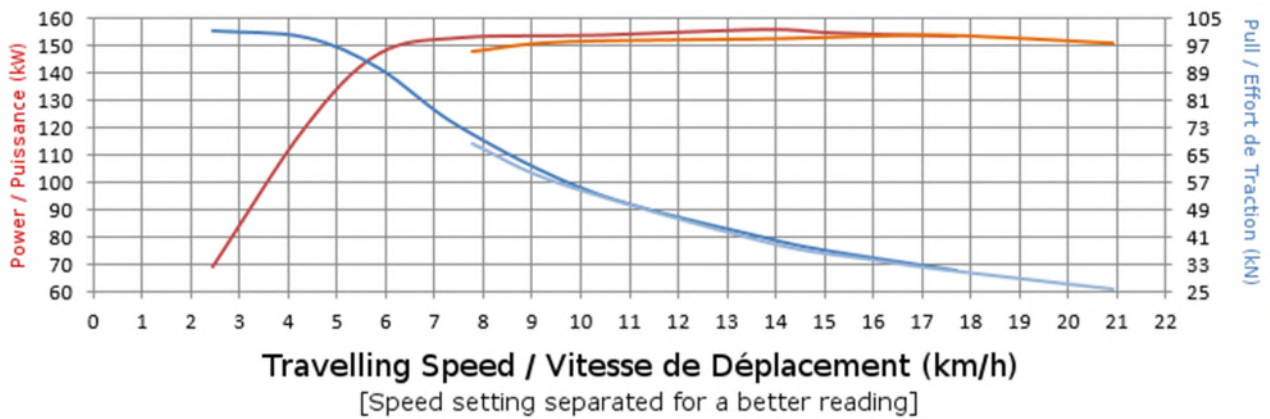


## DRAWBAR TEST

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

### UNBALLASTED

Total Mass	11190 kg
Maximum drawbar pull	101,2 kN
at speed of	2,45 km/h
Maximum power	155,9 kW
at speed of	13,82 km/h



### BALLASTED

*Not Applicable*