

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

OECD Approval Number	2/2 941
OECD Approval Date	17/03/2016
Make	Fendt
Model	939 S4 Vario
Type	4 WD
Transmission	Continuously variable transmission
Speed	60 km/h
Manufacturer	AGCO GmbH
Testing Station	DLG – Germany



SPECIFICATIONS

ENGINE

<i>Make</i>	Deutz
<i>Model</i>	TTCD 7.8 L6
<i>Type</i>	Direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	6
<i>Disposition</i>	vertical in line
<i>Capacity</i>	7750 cm ³
<i>Cooling</i>	Liquid

TRANSMISSION

<i>Gear box</i>		CVT
<i>Number of forward and reverse speeds</i>	-	-
<i>Speed at rated engine speed</i>	from 0	to 60 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>		1066 min ⁻¹
<i>Diameter of the shaft</i>	Not	45 mm
<i>Number of splines</i>	Available	6

PTO TEST RESULTS

One hour test at maximum power

Power, Engine and Power take-off speed	266,01 kW	1900 min ⁻¹	964 min ⁻¹
Hourly and specific consumption		72,3 l/h	228 g/kWh
Hourly and specific urea consumption		2,4 l/h	9,8 g/kWh-

Test at maximum power at rated engine speed

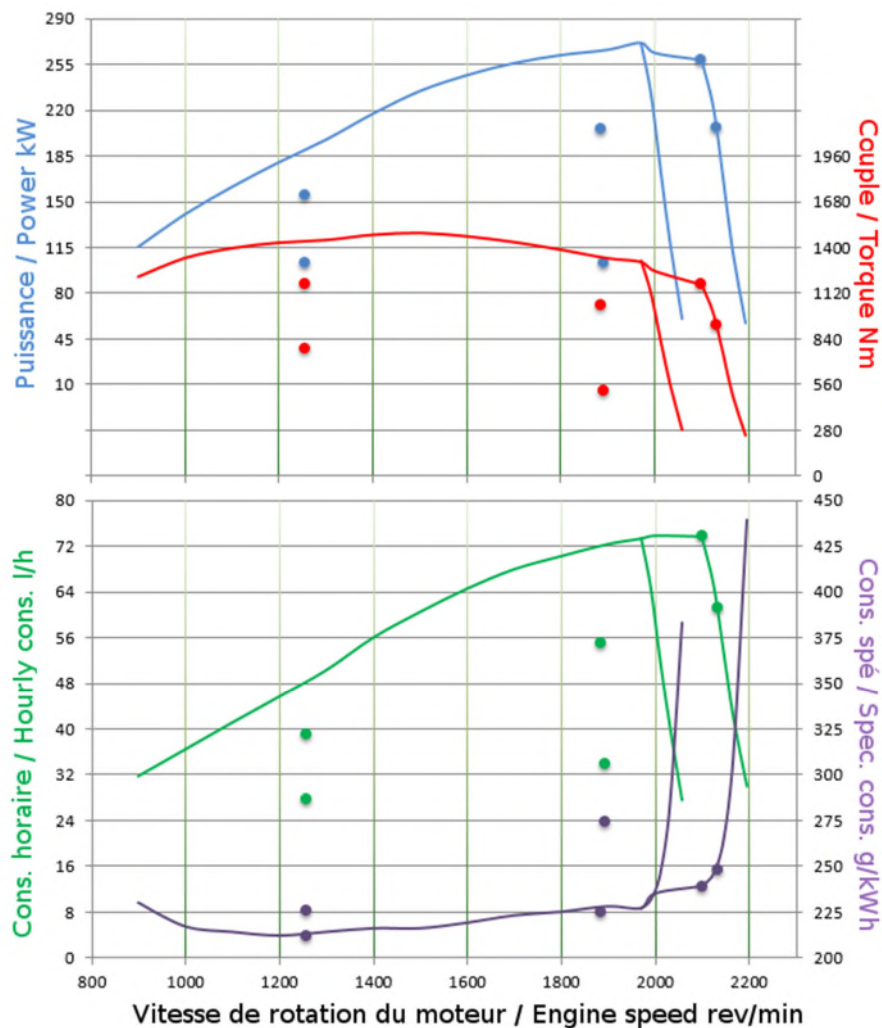
Power, Engine and Power take-off speed	258,16 kW	2100 min ⁻¹	1066 min ⁻¹
Hourly and specific consumption		73,66 l/h	239 g/kWh
Hourly and specific urea consumption		2,44 l/h	10,3 g/kWh-

Test at standard Power take-off speed

Power, Engine and Power take-off speed	271,3 kW	1970 min ⁻¹	1000 min ⁻¹
Hourly and specific consumption		73,3 l/h	227 g/kWh
Hourly and specific urea consumption		2,37 l/h	9,5 g/kWh-

Torque rise

<u>Maximum torque, Engine speed corresponding</u>	1492,73 Nm	1500 min ⁻¹	27,2 %
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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 ± 2 MPa

 HYDRAULIC PERFORMANCES

At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	107,1 l/min	17,59 MPa	31,4 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	200,3 l/min	17,7 MPa	59,0 kW

 POWER LIFT

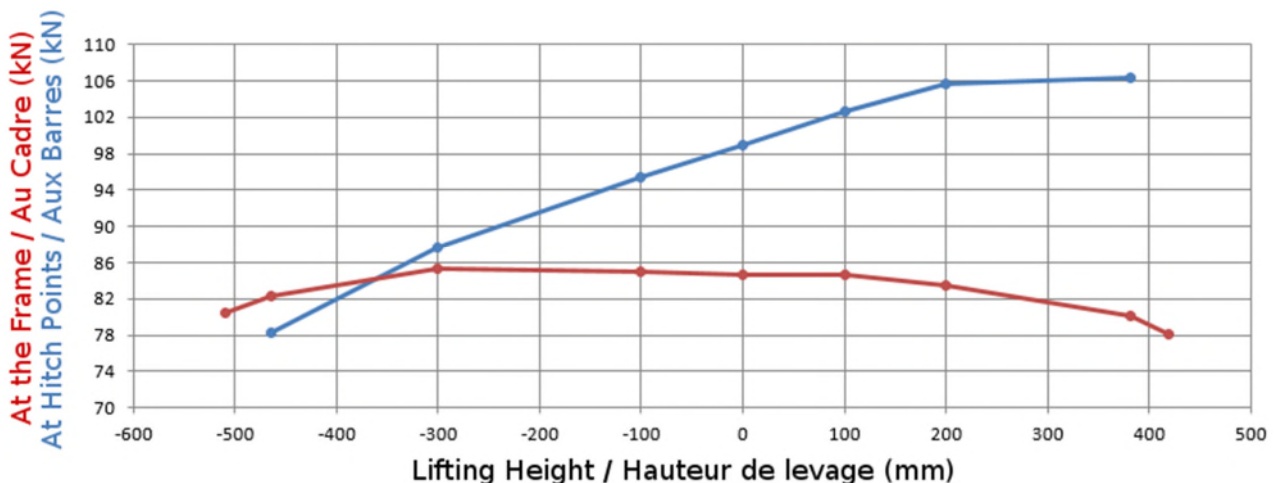
Maximum lifting force

at the hitch points

78,3 kN

at the frame

78,1 kN



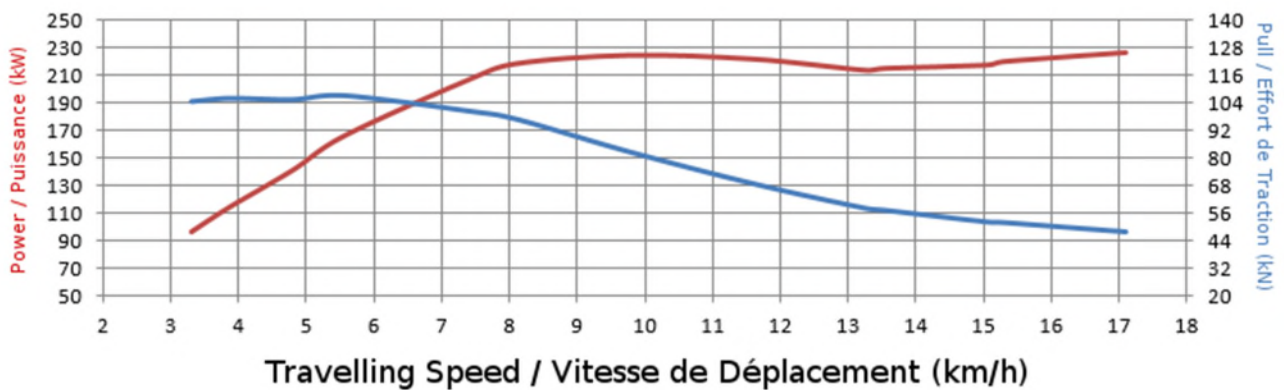
DRAWBAR TEST

Front tyres, Rear tyres
Inflation pressure

IF 650/65 R 34 IF 710/75 R 42
80 kPa 80 kPa

UNBALLASTED

Total Mass	10800 kg
Maximum drawbar pull at speed of	105,94 kN 3,88 km/h
Maximum power at speed of	226,1 kW 17,11 km/h



BALLASTED

Not available