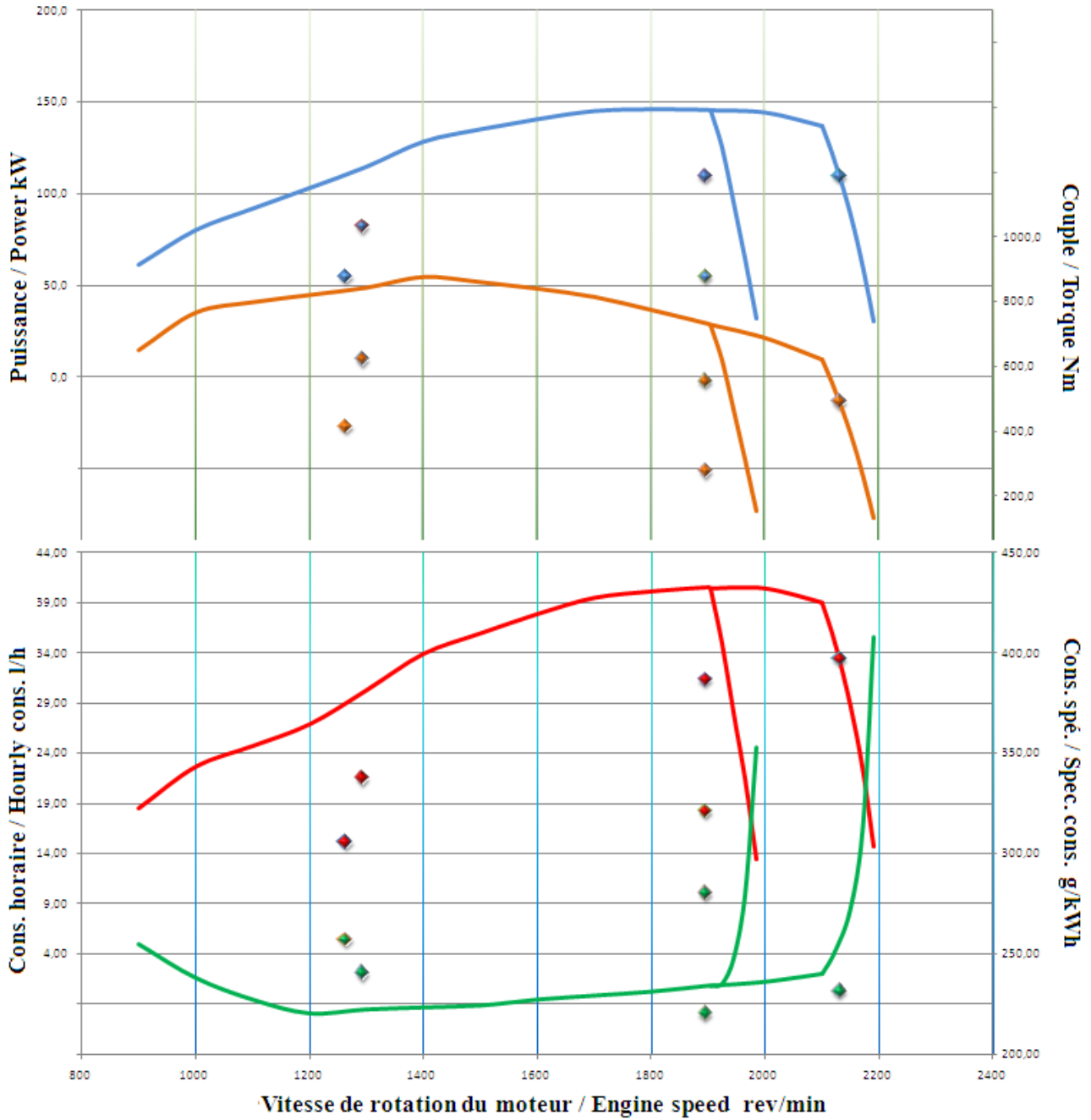




**OECD approval number** 2/2 535  
**OECD approval date** 28/01/2010  
**Make** Fendt  
**Model** 820 Vario TMS, COM IIIa  
**Type** 4 WD  
 T 731 - continuously variable transmission - 50 km/h  
**Manufacturer:** AGCO GmbH  
**Testing station:** DLG e.V., Gross-Umstadt, Germany

Fendt 820 Vario TMS, COM IIIa  
4 RMWD

OCDE/OECD 2/2 535



## Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Deutz	TCD 2012
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	6057 cm <sup>3</sup>	Liquid
<i>Gear box</i>		continuously variable transmission
<i>Number of forward and reverse speeds</i>	NA	NA
<i>Speed at rated engine speed</i>	from 0	to 50 km/h
<u>Standard Power take-off speed</u>	540 min <sup>-1</sup>	1000 min <sup>-1</sup>
<i>Power take-off speed at rated engine speed</i>	587 min <sup>-1</sup>	1102 min <sup>-1</sup>
<i>Diameter of the shaft</i>	35 mm	35 mm
<i>Number of splines</i>	6	6

## Power take-off Test

### One hour test at maximum power

<i>Power, Engine and Power take-off speed</i>	145,8 kW	1800 min <sup>-1</sup>	945 min <sup>-1</sup>
<i>Hourly and specific consumption</i>		40,11 dm <sup>3</sup> /h	231 g/kWh

### Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	136,7 kW	2100 min <sup>-1</sup>	1102 min <sup>-1</sup>
<i>Hourly and specific consumption</i>		39,01 dm <sup>3</sup> /h	240 g/kWh

### Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	145,2 kW	1905 min <sup>-1</sup>	1000 min <sup>-1</sup>
<i>Hourly and specific consumption</i>		40,42 dm <sup>3</sup> /h	234 g/kWh

### Torque rise

<u>Maximum torque, Engine speed corresponding</u>		875 Nm	1400 min <sup>-1</sup>
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## Drawbar Test

<i>Front tyres, Rear tyres</i>	540/65 R 30	650/65 R 42
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	7155 kg	
<i>Maximum drawbar pull</i>	75,66 kN	<i>Not</i>
<i>at speed of</i>	4,45 km/h	<i>required</i>
<i>Maximum power</i>	124,1 kW	
<i>at speed of</i>	12,83 km/h	

## Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>		Closed	
<u>At maximum hydraulic power</u>			
<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	71,6 l/min	19,0 MPa	22,7 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	106,1 l/min	19,1 MPa	33,8 kW
<u>Maximum lifting force</u>			
<i>at the hitch points, at frame</i>		64,4 kN	54,7 kN