



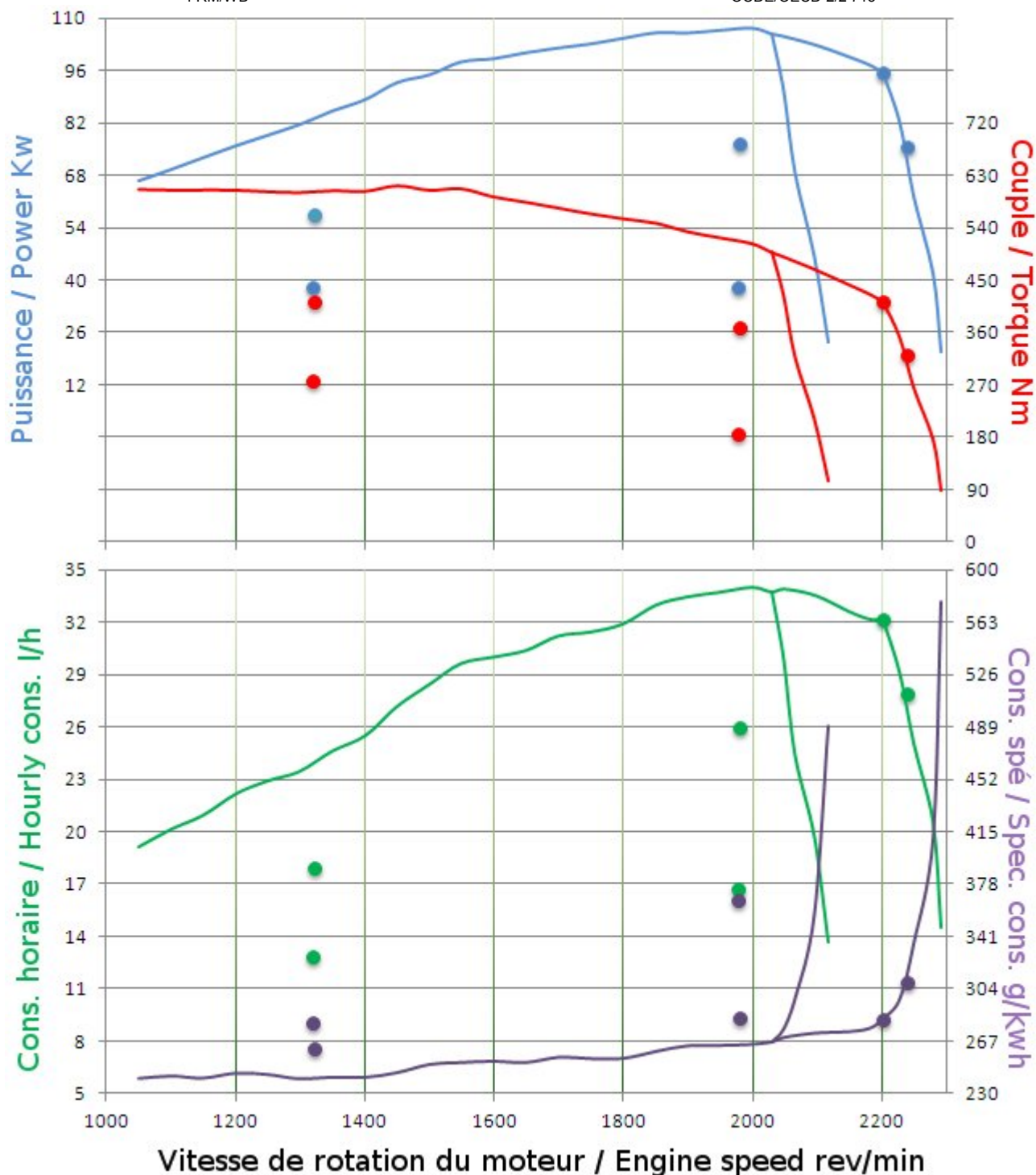
OECD approval number
OECD approval date
Make
Model
Type

Manufacturer:
Testing station:

2/2 715
13/09/2012
CLAAS
ARION 640 C
4 WD
Mechanical Syncromesh - 40 km/h
CLAAS tractor SAS
IRSTEA – Paris, France

CLAAS ARION 640 C
4 RM/WD

OCDE/OECD 2/2 715



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	6068HF285H
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	6788 cm ³	Liquid
<i>Gear box</i>		Mechanical Syncromesh
<i>Number of forward and reverse speeds</i>		16
<i>Speed at rated engine speed</i>	from 2,09	to 42,91 km/h
<i>Standard Power take-off speed</i>	540 min ⁻¹	1000 min ⁻¹
<i>Power take-off speed at rated engine speed</i>	600 min ⁻¹	1083 min ⁻¹
<i>Diameter of the shaft</i>	34,9 mm	34,9 mm
<i>Number of splines</i>	6	21

Power take-off Test

<u>One hour test at maximum power</u>			
<i>Power, Engine and Power take-off speed</i>	107,3 kW	2000 min ⁻¹	985 min ⁻¹
<i>Hourly and specific consumption</i>		33,98 l/h	265 g/kWh
<u>Test at maximum power at rated engine speed</u>			
<i>Power, Engine and Power take-off speed</i>	95,4 kW	2203 min ⁻¹	1085 min ⁻¹
<i>Hourly and specific consumption</i>		32,18 l/h	282 g/kWh
<u>Test at standard Power take-off speed</u>			
<i>Power, Engine and Power take-off speed</i>	105,8 kW	2030 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		33,71 l/h	267 g/kWh
<u>Torque rise</u>			47,71 %
<u>Maximum torque, Engine speed corresponding</u>		610,8 Nm	1450 min ⁻¹

Drawbar Test

<i>Front tyres, Rear tyres</i>	16.9 R28	20.8 R38
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	5975 kg	
<i>Maximum drawbar pull</i>	55,0 kN	Not
<i>at speed of</i>	1,96 km/h	Applicable
<i>Maximum power</i>	93,1 kW	
<i>at speed of</i>	8,70 km/h	

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>			Open centre
<u>At maximum hydraulic power</u>			
<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	53,1 l/min	16,4 MPa	14,5 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>	52,2 l/min	16,6 MPa	14,4 kW
<u>Maximum lifting force</u>			
<i>at the hitch points, at frame</i>		45,0 kN	37,3 kN