



OECD approval number

2/2 108

Restricted Code

OECD approval date

10/02/2004

Make

Claas

Model

Ares 816 RZ

Type

4 WD

H4412EA - 40 km/h

Manufacturer

CLAAS KGaA mbH

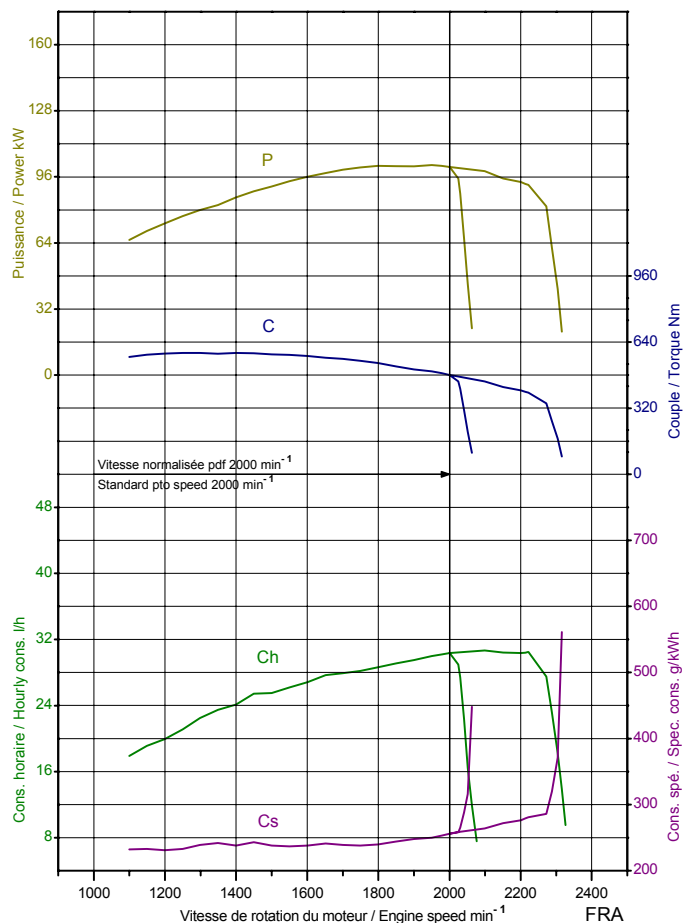
Testing station:

Cemagref, Antony, France

Claas Ares 816 RZ

4 RM/WD

OCDE/OECD 2/2108



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	DPS 6068HRT70
<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
<i>Number of forward and reverse speeds</i>		32 32
<i>Speed at rated engine speed</i>		from 2.57 to 41.83 km/h
<u>Standard Power take-off speed</u>		<u>540 min⁻¹</u> <u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>		629 min ⁻¹ 1100 min ⁻¹
<i>Diameter of the shaft</i>		34.9 mm 34.9 mm
<i>Number of splines</i>		6 21

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	101.7 kW	1950 min ⁻¹	975 min ⁻¹
<i>Hourly and specific consumption</i>		29.98 l/h	250 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	93.5 kW	2201 min ⁻¹	1100 min ⁻¹
<i>Hourly and specific consumption</i>		30.36 l/h	276 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	100.8 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		30.36 l/h	256 g/kWh

Torque rise

		45.0 %
<u>Maximum torque, Engine speed corresponding</u>	588.3 Nm	1299 min ⁻¹

Drawbar Test*Front tyres, Rear tyres*

<u>Test with tractor</u>	600/65 R 28	650/75 R 38
	<u>unballasted</u>	<u>ballasted</u>

Total Mass

	7300 kg	
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Maximum drawbar pull

	67.3 kN	Not
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at speed of

	3.49 km/h	required
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Maximum power

	85.6 kW	in
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at speed of

	7.74 km/h	Code 2
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Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>		Closed centre
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At maximum hydraulic power

<i>Flow rate, Pressure, Power</i>	99.4 l/min	14.7 MPa	24.4 kW
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Maximum lifting force

<i>at hitch points, at frame</i>		75.9 kN	67.0 kN
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