



OECD approval number

2/2 103

OECD approval date

Restricted Code

04/02/2004

Make

Claas

Model

Ares 546 RZ

Type

4 WD

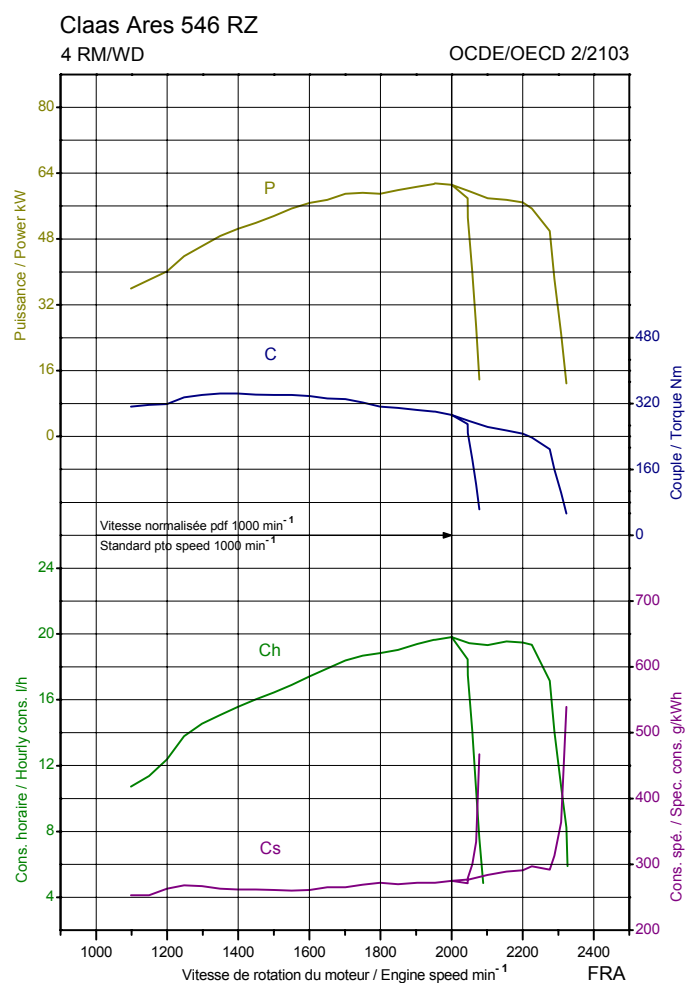
Manufacturer

H5312EA - 40 km/h

Testing station:

CLAAS KGaA mbH

Cemagref, Antony, France



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	John Deere	4045 TRT 73
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	4	vertical in line
<i>Capacity, Cooling</i>	4525 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 2.17	to 40.38 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>	601 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>	61.5 kW	1953 min ⁻¹	976 min ⁻¹
<i>Hourly and specific consumption</i>		19.65 l/h	272 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	56.9 kW	2200 min ⁻¹	1100 min ⁻¹
<i>Hourly and specific consumption</i>		19.47 l/h	291 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	61.2 kW	2000 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		19.81 l/h	275 g/kWh

Torque rise

		39.4 %
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<u>Maximum torque, Engine speed corresponding</u>	344.7 Nm	1400 min ⁻¹
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Drawbar Test*Front tyres, Rear tyres*

<u>Test with tractor</u>	480/65 R 28	600/65 R 38
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Total Mass

	<u>unballasted</u>	<u>ballasted</u>
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<i>Maximum drawbar pull</i>	5165 kg	
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<i>at speed of</i>	47.5 kN	Not
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<i>Maximum power</i>	2.28 km/h	required
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<i>at speed of</i>	53.7 kW	in
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	7.14 km/h	Code 2
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Hydraulic Performance and Power Lift Test*Hydraulic system*

<u>At maximum hydraulic power</u>		Opened centre
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<i>Flow rate, Pressure, Power</i>	43.3 l/min	15.7 MPa	11.3 kW
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<u>Maximum lifting force</u>			
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<i>at hitch points, at frame</i>		48.3 kN	36.3 kN
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