



OECD approval number

2/2 388

Restricted Code

OECD approval date

18/12/2007

Make

Mahindra

Model

6500

Type

4 WD

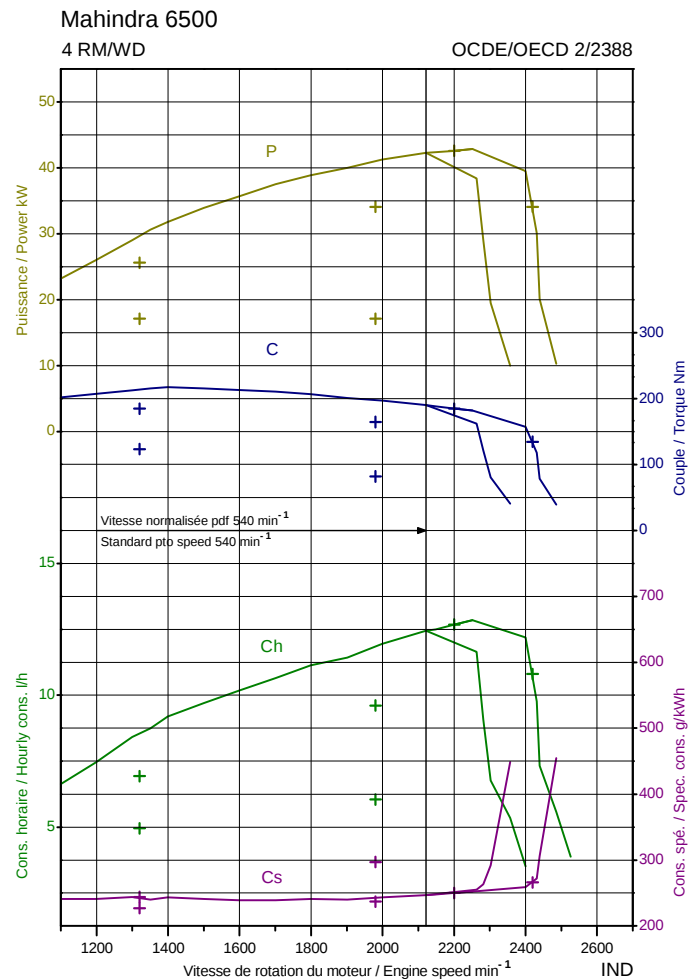
A6 - 40 km/h

Manufacturer:

Mahindra & Mahindra Limited

Testing station:

Central Farm Machinery Training
and Testing Institute, Budni, India



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Mahindra	NE 462
<i>Type, Supercharging</i>	Direct injection	None
<i>Cylinders, Disposition</i>	4	vertical in line
<i>Capacity, Cooling</i>	3532 cm ³	Liquid
<i>Gear box</i>		Mechanical synchronized
<i>Number of forward and reverse speeds</i>		8 8
<i>Speed at rated engine speed</i>		from 2.47 to 32.55 km/h
<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>		560 min ⁻¹ None
<i>Diameter of the shaft</i>		34.79 mm
<i>Number of splines</i>		6

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	42.9 kW	2251 min ⁻¹	573 min ⁻¹
<i>Hourly and specific consumption</i>		12.85 l/h	252 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	42.6 kW	2200 min ⁻¹	560 min ⁻¹
<i>Hourly and specific consumption</i>		12.68 l/h	250 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	42.3 kW	2121 min ⁻¹	540 min ⁻¹
<i>Hourly and specific consumption</i>		12.45 l/h	247 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		217.4 Nm	17.5 % 1398 min ⁻¹
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Drawbar Test

<i>Front tyres, Rear tyres</i>	11.2 - 24	16.9 - 30
<i>Test with tractor</i>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	2770 kg	
<i>Maximum drawbar pull</i>	25.8 kN	Not
<i>at speed of</i>	2.40 km/h	required
<i>Maximum power</i>	34.8 kW	
<i>at speed of</i>	10.67 km/h	

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>		Opened centre
<i>At maximum hydraulic power</i>		
<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	22.0 l/min	14.0 MPa 5.1 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>		
<i>Maximum lifting force</i>		
<i>at the hitch points, at frame</i>	13.6 kN	9.0 kN