



OECD approval number

2/2 214

OECD approval date

Restricted Code

26/01/2005

Make

Massey Ferguson

Model

431

Type

2 WD

40 km/h

Manufacturer

Uzel Makina San. A.S.

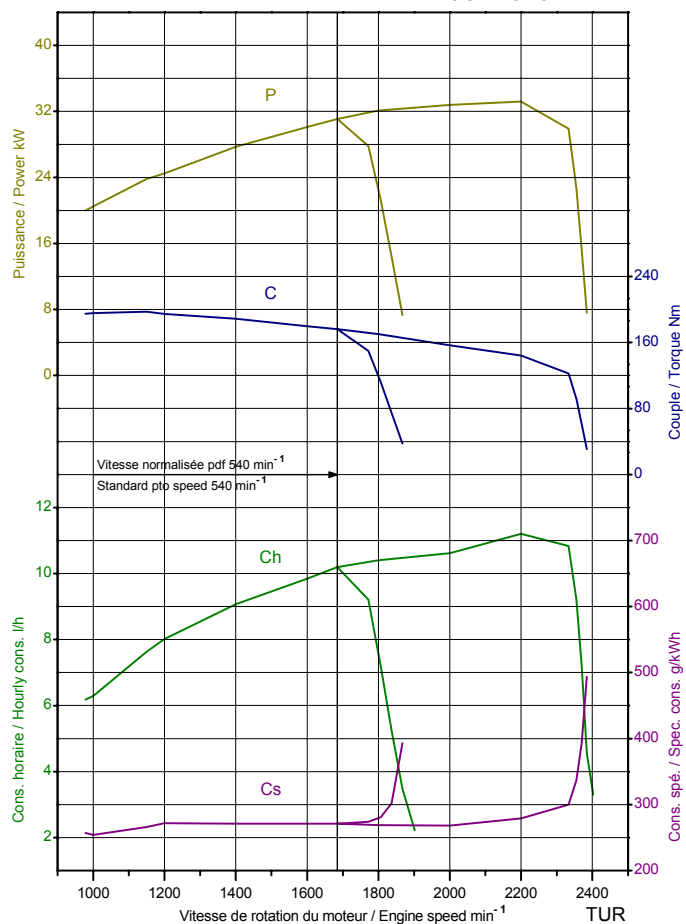
Testing station:

TAMTEST, Ankara, Turkey

Massey Ferguson 431

2 RM/WD

OCDE/OECD 2/2214



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Perkins	1103C-33
<i>Type, Supercharging</i>	Direct injection	None
<i>Cylinders, Disposition</i>	3	vertical in line
<i>Capacity, Cooling</i>	3300 cm ³	Liquid
<i>Gear box</i>		Mechanical
<i>Number of forward and reverse speeds</i>	8	2
<i>Speed at rated engine speed</i>	from 2.52	to 34.05 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>	705 min ⁻¹	None
<i>Diameter of the shaft</i>	34.9 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>	33.2 kW	2200 min ⁻¹	705 min ⁻¹
<i>Hourly and specific consumption</i>		11.20 l/h	279 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	33.2 kW	2200 min ⁻¹	705 min ⁻¹
<i>Hourly and specific consumption</i>		11.20 l/h	279 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	31.1 kW	1685 min ⁻¹	540 min ⁻¹
<i>Hourly and specific consumption</i>		10.20 l/h	271 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		197.4 Nm	1150 min ⁻¹
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Drawbar Test

<i>Front tyres, Rear tyres</i>	6.00 - 16	13.6 - 28
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	2000 kg	
<i>Maximum drawbar pull</i>	14.8 kN	Not
<i>at speed of</i>	2.35 km/h	required
<i>Maximum power</i>	28.6 kW	in
<i>at speed of</i>	9.55 km/h	Code 2

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>			Opened centre
<u>At maximum hydraulic power</u>			
<i>Flow rate, Pressure, Power</i>	34.3 l/min	16.0 MPa	9.2 kW
<u>Maximum lifting force</u>			
<i>at hitch points, at frame</i>		12.7 kN	8.8 kN

