



OECD approval number

1/1 991

OECD approval date

Full Code

11/07/2002

Make

Sonalika

Model

Solis 50

Type

2 WD

Manufacturer

M/s International Tractors Ltd.

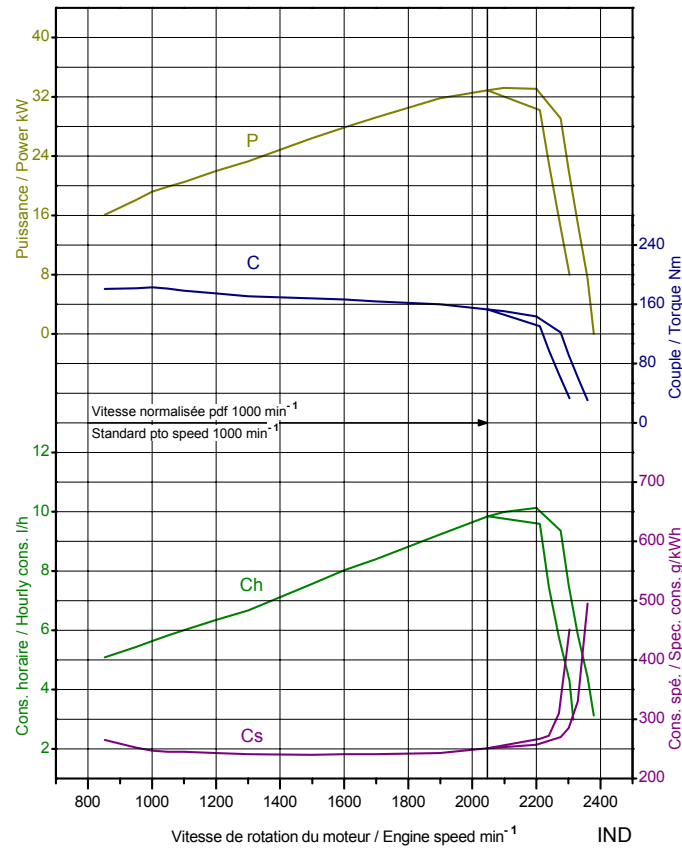
Testing station:

Central Farm Machinery

Training and Testing Institute, Budni, India

Sonalika Solis 50
2 RM/WD

OCDE/OECD 1/1991



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Sonalika	4095 F
<i>Type, Supercharging</i>	Direct injection	None
<i>Cylinders, Disposition</i>	4	vertical in line
<i>Capacity, Cooling</i>	3120 cm ³	By water
<i>Gear box</i>		Mechanical
<i>Number of forward and reverse speeds</i>	8	2
<i>Speed at rated engine speed</i>	from 2.71	to 31.85 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>		1075 min ⁻¹
<i>Diameter of the shaft</i>		34.69 mm
<i>Number of splines</i>		21

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	33.2 kW	2098 min ⁻¹	1025 min ⁻¹
<i>Hourly and specific consumption</i>		9.99 l/h	253 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	33.1 kW	2200 min ⁻¹	1075 min ⁻¹
<i>Hourly and specific consumption</i>		10.13 l/h	257 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	32.9 kW	2047 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		9.85 l/h	251 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>	182.7 Nm	1001 min ⁻¹
---	----------	------------------------

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>	2105 kg	2805 kg
<i>Maximum drawbar pull</i>	13.3 kN	20.8 kN
<i>at speed of</i>	5.48 km/h	2.49 km/h
<i>Maximum power</i>	26.8 kW	27.7 kW
<i>at speed of</i>	9.94 km/h	10.35 km/h

Power Lift and Hydraulic Performance Test

<i>Hydraulic system</i>		Opened centre
<i>Maximum lifting force at hitch points, at frame</i>	12.4 kN	11.5 kN
<u>At maximum hydraulic power</u>		
<i>Flow rate, Pressure, Power</i>	12.7 l/min	17.5 MPa 3.7 kW