



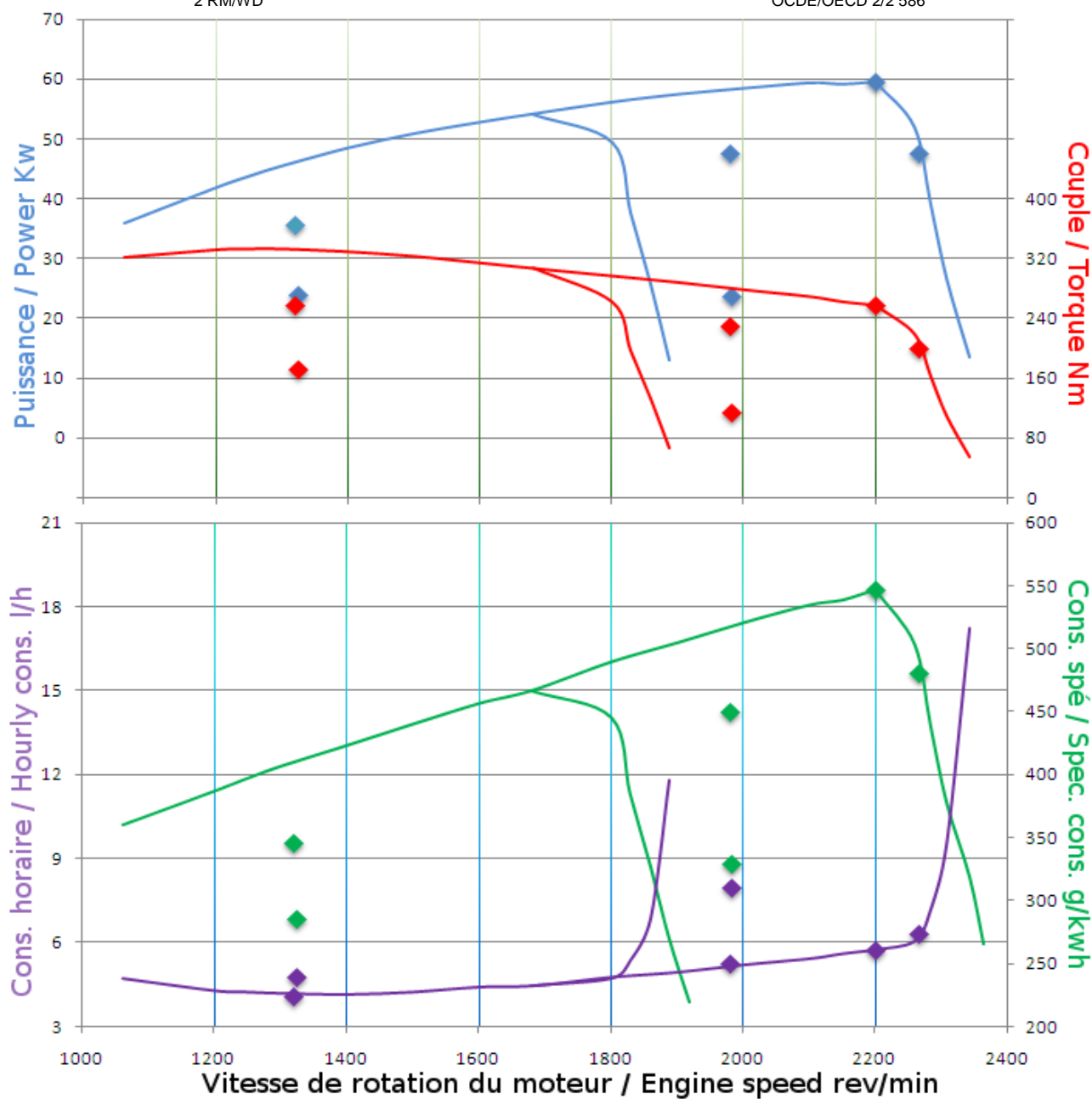
OECD approval number  
OECD approval date  
Make  
Model  
Type

Manufacturer:  
Testing station:

2/2 586  
20/01/2011  
International Tractors Ltd.  
Sonalika International DI – 90(2WD)  
2 WD  
mechanical transmission - 40 km/h  
International Tractors Ltd.  
Central Farm Machinery Training and Testing  
Institute, Budni, India

International Tractors Ltd. Sonalika International DI – 90(2WD)  
2 RM/WD

OCDE/OECD 2/2 586



**Engine, Transmission, Power take-off Specifications**

<i>Make, Model</i>	International Tractors Ltd.	4105FLT
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	4	vertical in line
<i>Capacity, Cooling</i>	4087 cm <sup>3</sup>	Liquid
<i>Gear box</i>		mechanical
<i>Number of forward and reverse speeds</i>	8	2
<i>Speed at rated engine speed</i>	from 2,73	to 36,29 km/h
<u>Standard Power take-off speed</u>	540 min <sup>-1</sup>	1000 min <sup>-1</sup>
<i>Power take-off speed at rated engine speed</i>	707 min <sup>-1</sup>	Not
<i>Diameter of the shaft</i>	34,9 mm	required
<i>Number of splines</i>	6	

**Power take-off Test**One hour test at maximum power

<i>Power, Engine and Power take-off speed</i>	59,5 kW	2199 min <sup>-1</sup>	707 min <sup>-1</sup>
<i>Hourly and specific consumption</i>		18,60 l/h	261 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	59,5 kW	2199 min <sup>-1</sup>	707 min <sup>-1</sup>
<i>Hourly and specific consumption</i>		18,60 l/h	261 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	54,1 kW	1680 min <sup>-1</sup>	540 min <sup>-1</sup>
<i>Hourly and specific consumption</i>		15,00 l/h	232 g/kWh

Torque rise

<u>Maximum torque, Engine speed corresponding</u>	333,57 Nm	1248 min <sup>-1</sup>
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**Drawbar Test**

<i>Front tyres, Rear tyres</i>	9.00 - 16	18.4 – 30
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	2910 kg	
<i>Maximum drawbar pull</i>	23,45 kN	Not
<i>at speed of</i>	2,54 km/h	required
<i>Maximum power</i>	46,7 kW	
<i>at speed of</i>	10,52 km/h	

**Hydraulic Performance and Power Lift Test**

<i>Hydraulic system</i>		Open centre
<u>At maximum hydraulic power</u>		
<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	20,35 l/min	17,0 MPa
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>		5,8 kW
<u>Maximum lifting force</u>		Not applicable
<i>at the hitch points, at frame</i>	14,16 kN	11,55 kN