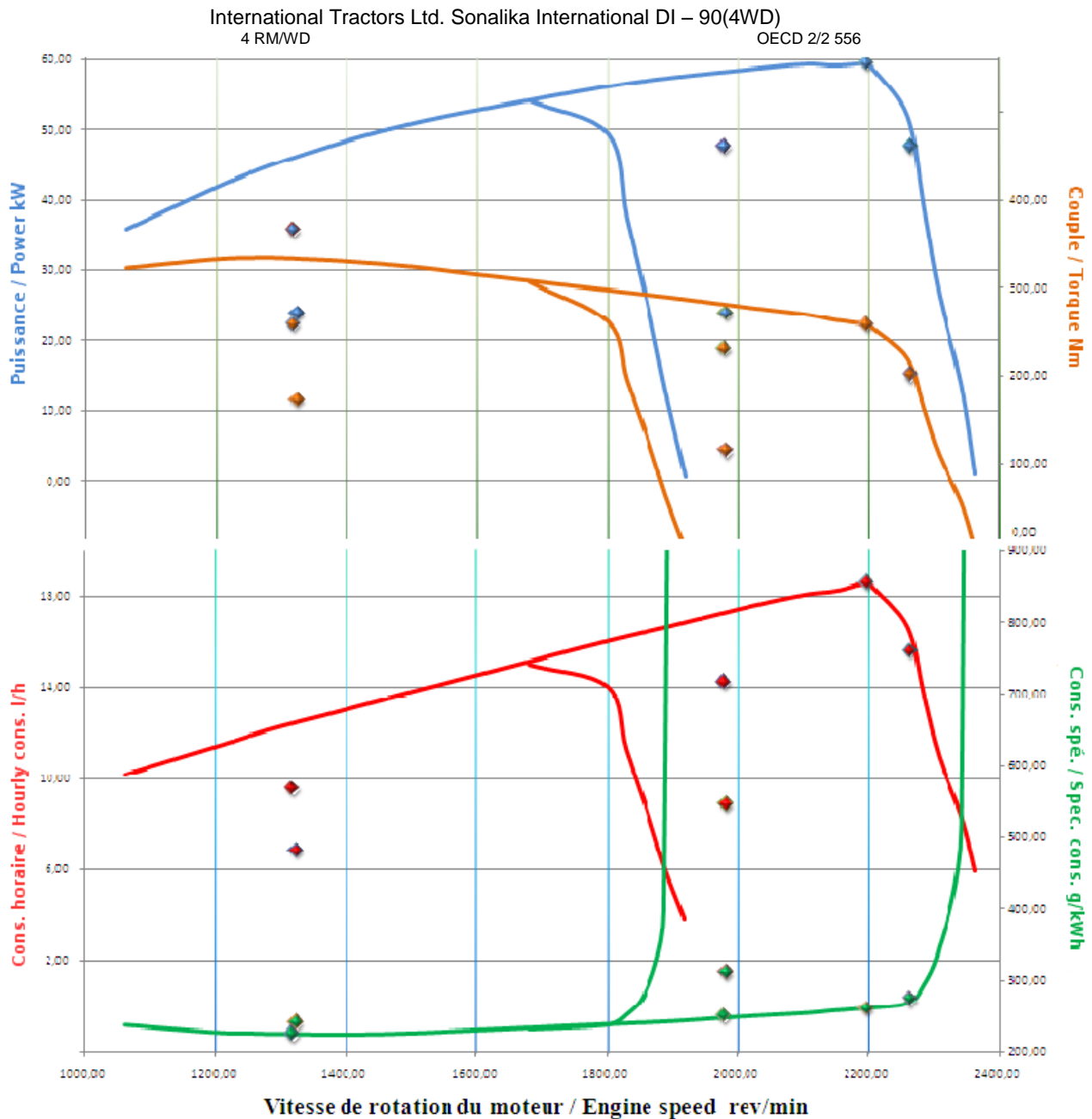




OECD approval number 2/2 556
OECD approval date 12/05/2010
Make International Tractors Ltd.
Model Sonalika International DI –90(4WD)
Type 4WD
 ZL - mechanical transmission - 40 km/h
Manufacturer: M/s International Tractors Limited
Testing station: Central Farm Machinery Training and Testing Institute, Budni, India



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 ³	water cooled
<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>		<u>540 min⁻¹</u> <u>1000 min⁻¹</u>
<i>Power take-off speed at rated engine speed</i>		707 min ⁻¹ Not
<i>Diameter of the shaft</i>	35 mm	required
<i>Number of splines</i>	6	

Power take-off TestOne hour test at maximum power

<i>Power, Engine and Power take-off speed</i>	59,5 kW	2199 min ⁻¹	707 min ⁻¹
<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 ⁻¹	707 min ⁻¹
<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 ⁻¹	540 min ⁻¹
<i>Hourly and specific consumption</i>		15,00 l/h	232 g/kWh

Torque rise

<u>Maximum torque, Engine speed corresponding</u>		333,6 Nm	1248 min ⁻¹
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Drawbar Test

<i>Front tyres, Rear tyres</i>	12.4 – 24	18.4 – 30
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	3165 kg	
<i>Maximum drawbar pull</i>	27,81 kN	Not
<i>at speed of</i>	5,60 km/h	required
<i>Maximum power</i>	47,3 kW	
<i>at speed of</i>	8,94 km/h	

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>		Open
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At maximum hydraulic power

<i>Flow rate, Pressure, Power (couplers: 1 pair)</i>	20,35 l/min	17,0 Mpa	5,8 kW
<i>Flow rate, Pressure, Power (couplers: 2 pairs or +)</i>			Not applicable

Maximum lifting force

<i>at the hitch points, at frame</i>	14,16 kN	11,55 kN
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