

## OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

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<b>OECD Approval Number</b>	<b>2/3 023</b>
<b>OECD Approval Date</b>	<b>17/02/2017</b>
<b>Make</b>	<b>International Tractors Limited</b>
<b>Model</b>	<b>SOLIS 50 W</b>
<b>Type</b>	<b>4 WD</b>
<b>Transmission</b>	<b>mechanical</b>
<b>Speed</b>	<b>30 km/h</b>
<b>Manufacturer</b>	<b>M/s International Tractors Limited</b>
<b>Testing Station</b>	<b>BUDNI – India</b>



## SPECIFICATIONS

### ENGINE

<i>Make</i>	International Tractors Ltd.
<i>Model</i>	3102IL
<i>Type</i>	Direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	3
<i>Disposition</i>	vertical, in-line
<i>Capacity</i>	2893 cm <sup>3</sup>
<i>Cooling</i>	Liquid

### TRANSMISSION

<i>Gear box</i>		mechanical
<i>Number of forward and reverse speeds</i>	8	2
<i>Speed at rated engine speed</i>	from 2,27	to 29,94 km/h

### POWER TAKE-OFF SPECIFICATIONS

<i>Standard Power take-off speed</i>	<u>540 min<sup>-1</sup></u>	<u>1000 min<sup>-1</sup></u>
<i>Power take-off speed at rated engine speed</i>	655 min <sup>-1</sup>	
<i>Diameter of the shaft</i>	34.84 mm	<i>Not</i>
<i>Number of splines</i>	6	<i>available</i>

## PTO TEST RESULTS

### One hour test at maximum power

Power, Engine and Power take-off speed	30,7 kW	2100 min <sup>-1</sup>	675 min <sup>-1</sup>
Hourly and specific consumption		9,35 l/h	255 g/kWh
Hourly and specific urea consumption		-	-

### Test at maximum power at rated engine speed

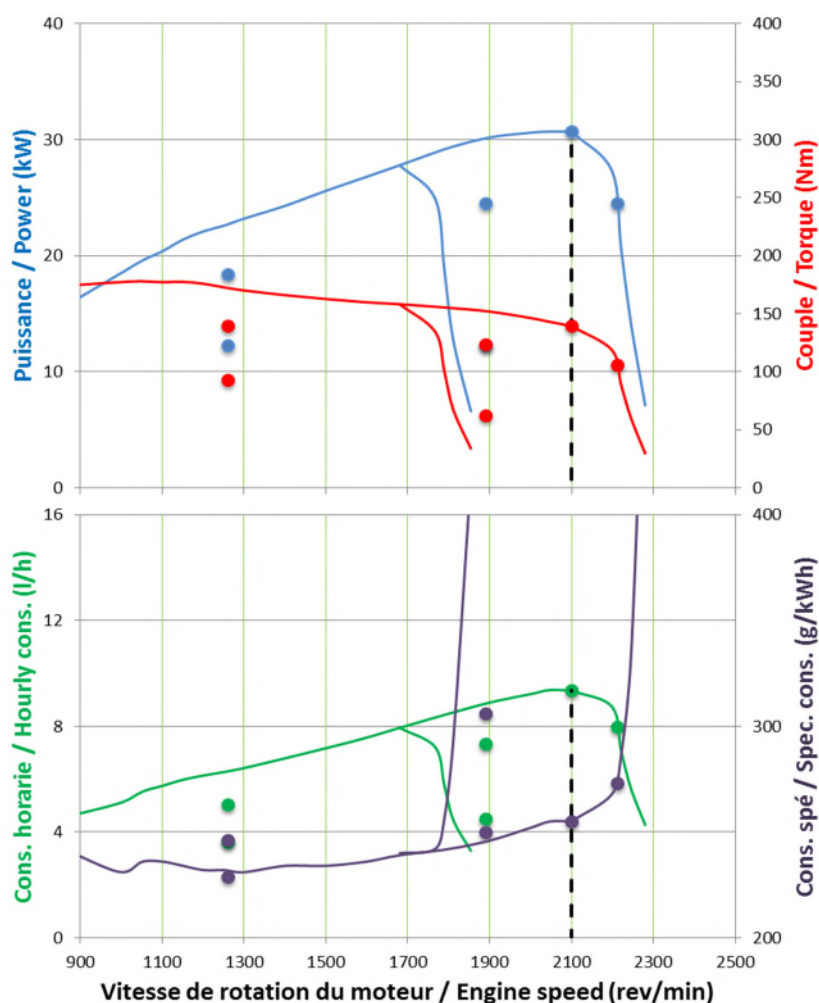
Power, Engine and Power take-off speed	30,7 kW	2100 min <sup>-1</sup>	675 min <sup>-1</sup>
Hourly and specific consumption		9,35 l/h	255 g/kWh
Hourly and specific urea consumption		-	-

### Test at standard Power take-off speed

Power, Engine and Power take-off speed	27,8 kW	1680 min <sup>-1</sup>	540 min <sup>-1</sup>
Hourly and specific consumption		7,94 l/h	240 g/kWh
Hourly and specific urea consumption		-	-

### Torque rise

Maximum torque, Engine speed corresponding	177,9 Nm	27,6 %	1052 min <sup>-1</sup>
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## PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

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*Not applicable*

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## HYDRAULIC PERFORMANCE AND POWER LIFT TEST

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Hydraulic system

open centre

Relief valve pressure setting (tolerance):

18 ± 2 MPa

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### HYDRAULIC PERFORMANCES

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#### At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)

20,6 l/min

15,0 MPa

5,2 kW

Flow rate, Pressure, Power (couplers: 2 pairs or +)

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### POWER LIFT

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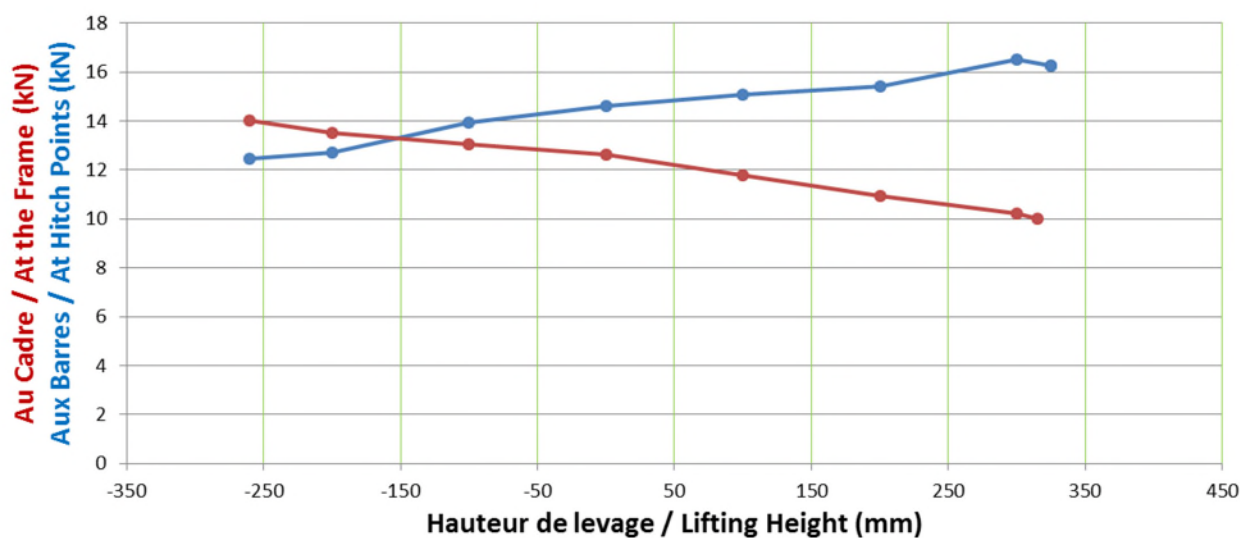
#### Maximum lifting force

at the hitch points

12,45 kN

at the frame

10,03 kN

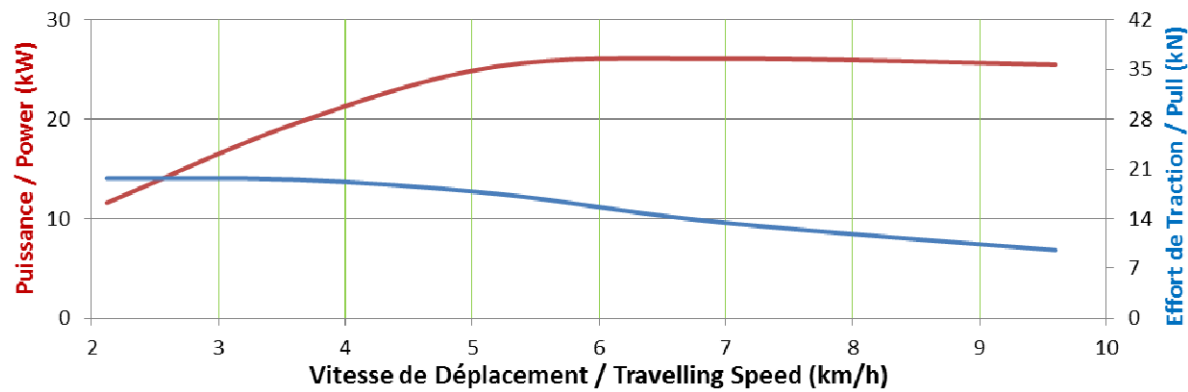


DRAWBAR TEST

Front tyres, Rear tyres	8.00 - 18	13.6 – 28
Inflation pressure	180 kPa	110 kPa

UNBALLASTED

Total Mass	2055 kg
Maximum drawbar pull	19,68 kN
at speed of	2,12 km/h
Maximum power	26,1 kW
at speed of	6,95km/h



BALLASTED

Not applicable