

# OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

---

OECD Approval Number

2/3 038

OECD Approval Date

16/03/2017

<b>Make</b>	<b>CASE IH</b>
<b>Model</b>	<b>Magnum 310 Rowtrac</b>
<b>Make</b>	<b>New Holland</b>
<b>Model</b>	<b>T8.380 SmartTrax</b>

Type

4 WD with rear tracks

Transmission

Power Shift

Speed

30 km/h

Manufacturer

CNH Industrial LLC

Testing Station

NTTL – U.S.A.



## SPECIFICATIONS

### ENGINE

<i>Make</i>	FIAT Powertrain (FPT)
<i>Model</i>	Cursor 8.7L, F4DFE613H
<i>Type</i>	Direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	6
<i>Disposition</i>	in line
<i>Capacity</i>	8704 cm <sup>3</sup>
<i>Cooling</i>	Liquid

### TRANSMISSION

<i>Gear box</i>	Power Shift
<i>Number of forward and reverse speeds</i>	17 4
<i>Speed at rated engine speed</i>	from 3,59 to 30,60 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>	597 min <sup>-1</sup>	1109 min <sup>-1</sup>
<i>Diameter of the shaft</i>	34,9 mm	34,9 / 44,45 mm
<i>Number of splines</i>	6	21

## PTO TEST RESULTS

### One hour test at maximum power

Power, Engine and Power take-off speed	236,88 kW	1800 min <sup>-1</sup>	998 min <sup>-1</sup>
Hourly and specific consumption		60,61 l/h	215 g/kWh
Hourly and specific urea consumption		6,55 l/h	30,0 g/kWh

### Test at maximum power at rated engine speed

Power, Engine and Power take-off speed	205,75 kW	2000 min <sup>-1</sup>	1109 min <sup>-1</sup>
Hourly and specific consumption		54,52 l/h	223 g/kWh
Hourly and specific urea consumption		5,74 l/h	30,3 g/kWh

### Test at standard Power take-off speed

Power, Engine and Power take-off speed	236,88 kW	1800 min <sup>-1</sup>	998 min <sup>-1</sup>
Hourly and specific consumption		60,61 l/h	215 g/kWh
Hourly and specific urea consumption		6,55 l/h	30,0 g/kWh

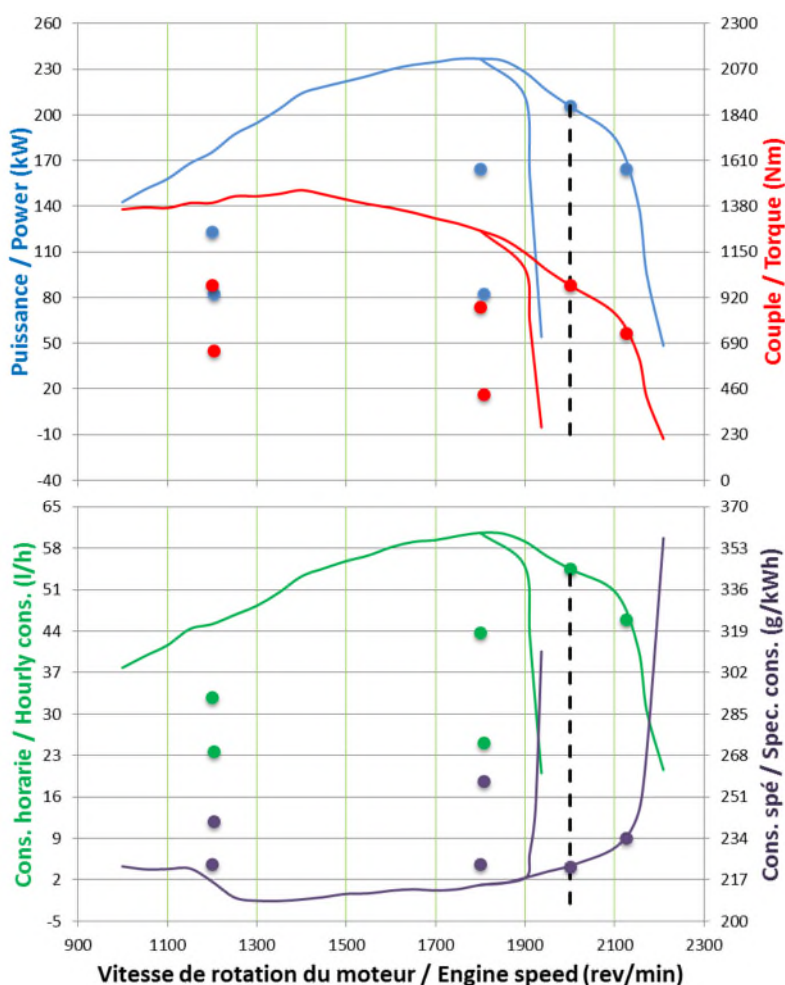
### Torque rise

48,7 %

### Maximum torque, Engine speed corresponding

1460,5 Nm

1399 min<sup>-1</sup>



## PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

*Not Applicable*

## HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system

Closed centre

Relief valve pressure setting (tolerance):

20,25 ± 1,15 MPa

## HYDRAULIC PERFORMANCES

### At maximum hydraulic power

Flow rate, Pressure, Power (couplers: 1 pair)	151,2 l/min	15,38 MPa	38,8 kW
Flow rate, Pressure, Power (couplers: 2 pairs or +)	169,0 l/min	17,84 MPa	50,3 kW

## POWER LIFT

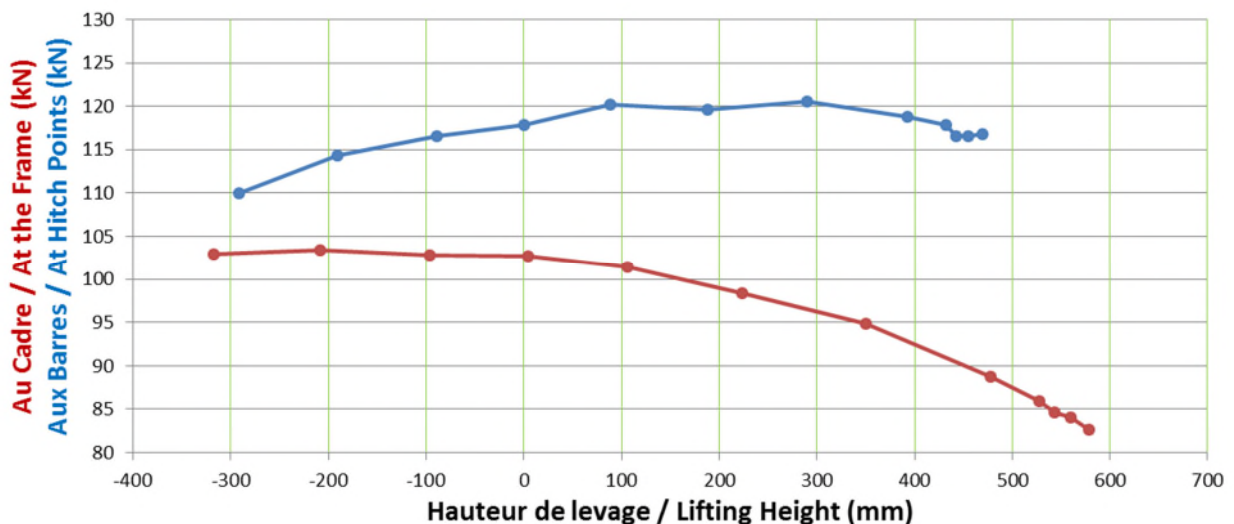
### Maximum lifting force

at the hitch points

110,0 kN

at the frame

82,7 kN

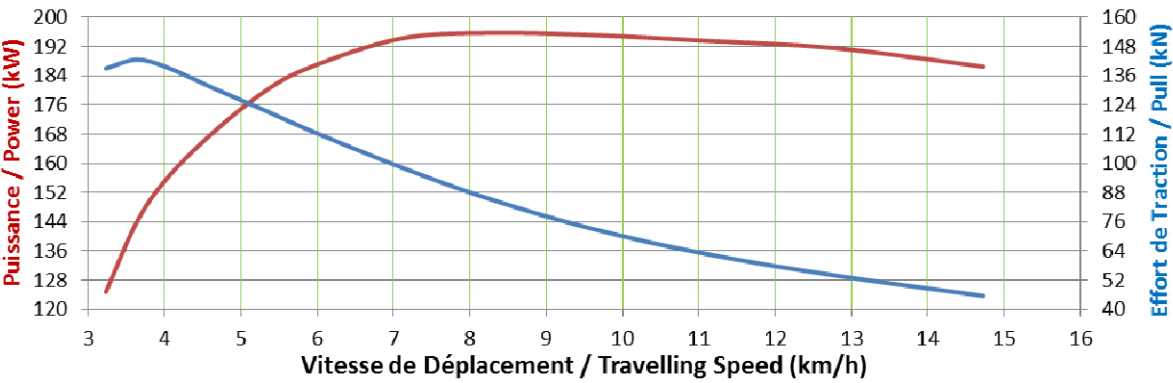


DRAWBAR TEST

Front tyres, Rear tyres	420/85R38	-
Inflation pressure	138 kPa	-

UNBALLASTED

Total Mass	16270 kg
Maximum drawbar pull	142,63 kN
at speed of	3,63 km/h
Maximum power	195,72 kW
at speed of	8,24 km/h



BALLASTED

Not Applicable