

## OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

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<b>OECD Approval Number</b>	<b>2/2 927</b>
<b>OECD Approval Date</b>	<b>09/02/2016</b>
<b>Make</b>	<b>LS Mtron</b>
<b>Model</b>	<b>PLUS80</b>
<b>Type</b>	<b>4 WD</b>
<b>Transmission</b>	<b>mechanical</b>
<b>Speed</b>	<b>40 km/h</b>
<b>Manufacturer</b>	<b>LS Mtron Ltd.</b>
<b>Testing Station</b>	<b>F.A.C.T. – Korea</b>



## SPECIFICATIONS

### ENGINE

<i>Make</i>	FIAT POWER TRAIN
<i>Model</i>	F5AE5454F*A
<i>Type</i>	direct injection
<i>Supercharging</i>	Yes
<i>Cylinders</i>	4
<i>Disposition</i>	Vertical in line
<i>Capacity</i>	3200 cm <sup>3</sup>
<i>Cooling</i>	Liquid

### TRANSMISSION

<i>Gear box</i>	Mechanical
<i>Number of forward and reverse speeds</i>	12
<i>Speed at rated engine speed</i>	from 0,19 to 35,14 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>	634 min <sup>-1</sup>	1082 min <sup>-1</sup>
<i>Diameter of the shaft</i>	35 mm	35 mm
<i>Number of splines</i>	6	6

## PTO TEST RESULTS

### One hour test at maximum power

Power, Engine and Power take-off speed	49,1 kW	2300 min <sup>-1</sup>	635 min <sup>-1</sup>
Hourly and specific consumption		16,50 l/h	280 g/kWh
Hourly and specific urea consumption		-	-

### Test at maximum power at rated engine speed

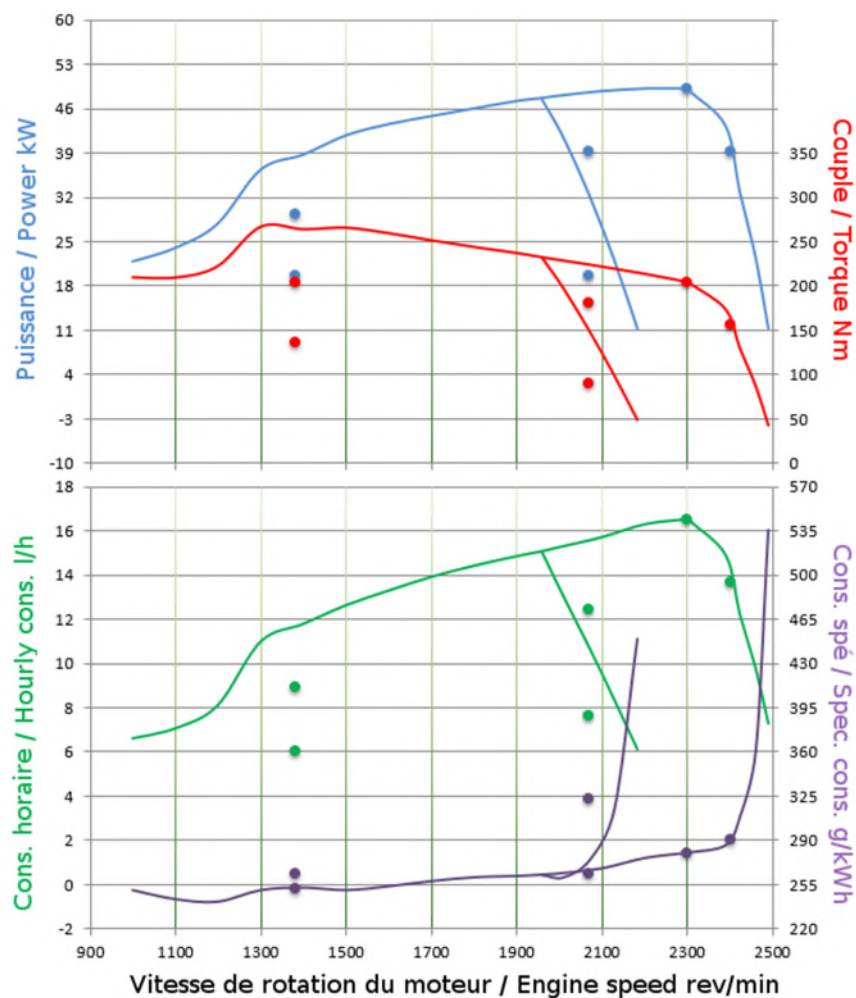
Power, Engine and Power take-off speed	49,1 kW	2300 min <sup>-1</sup>	635 min <sup>-1</sup>
Hourly and specific consumption		16,50 l/h	280 g/kWh
Hourly and specific urea consumption		-	-

### Test at standard Power take-off speed

Power, Engine and Power take-off speed	47,6 kW	1958 min <sup>-1</sup>	540 min <sup>-1</sup>
Hourly and specific consumption		15,05 l/h	263 g/kWh
Hourly and specific urea consumption		-	-

### Torque rise

Maximum torque, Engine speed corresponding	266,9 Nm	1300 min <sup>-1</sup>	30,9 %
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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):

18,5 ± 0,5 MPa

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### HYDRAULIC PERFORMANCES

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At maximum hydraulic power

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

39,5 l/min

13,9 MPa

9,1 kW

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

Not

Applicable

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### POWER LIFT

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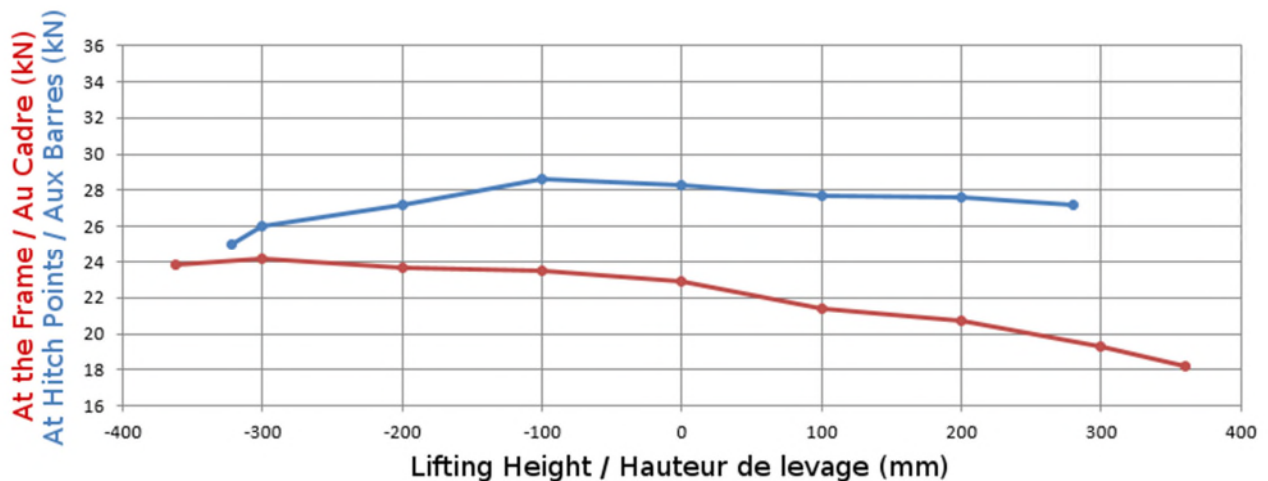
Maximum lifting force

at the hitch points

25,0 kN

at the frame

18,2 kN

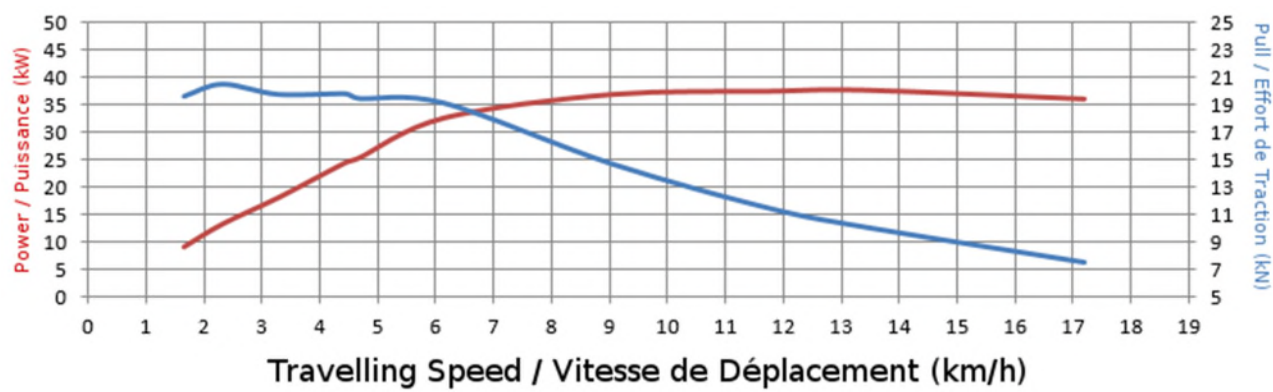


DRAWBAR TEST

Front tyres, Rear tyres	11.2-24	16.9-30
Inflation pressure	235 kPa	157 kPa

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Total Mass	2815 kg
Maximum drawbar pull	20,47 kN
at speed of	2,31 km/h
Maximum power	37,60 kW
at speed of	13,38 km/h



BALLASTED

Not available