

OECD ABSTRACT OF AGRICULTURAL AND FORESTRY TRACTOR PERFORMANCE TEST

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|-----------------------------|------------------------|
| OECD Approval Number | 2/2 891 |
| OECD Approval Date | 10/06/2015 |
| Make | BCS |
| Model | VALIANT V650 RS |
| Type | 4WD |
| Transmission | Mechanical |
| Speed | 30 km/h |
| Manufacturer | BCS S.p.A. |
| Testing Station | DISTAL – Italy |



SPECIFICATIONS

ENGINE

| | |
|----------------------|----------------------|
| <i>Make</i> | VM MOTORI |
| <i>Model</i> | D753TE3 |
| <i>Type</i> | Direct injection |
| <i>Supercharging</i> | Yes |
| <i>Cylinders</i> | 3 |
| <i>Disposition</i> | vertical in line |
| <i>Capacity</i> | 2228 cm ³ |
| <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 8,15 to 32,60 km/h |

POWER TAKE-OFF SPECIFICATIONS

| | | |
|---------------------------------------------------|-----------------------------|------------------------------|
| <i>Standard Power take-off speed</i> | <u>540 min⁻¹</u> | <u>1000 min⁻¹</u> |
| <i>Power take-off speed at rated engine speed</i> | 583 min ⁻¹ | |
| <i>Diameter of the shaft</i> | 35 mm | Not |
| <i>Number of splines</i> | 6 | Applicable |

PTO TEST RESULTS

One hour test at maximum power

| | | | |
|----------------------------------------|---------|------------------------|-----------------------|
| Power, Engine and Power take-off speed | 37,8 kW | 2052 min ⁻¹ | 460 min ⁻¹ |
| Hourly and specific consumption | | 13,21 l/h | 293 g/kWh |
| Hourly and specific urea consumption | | - l/h | - g/kWh- |

Test at maximum power at rated engine speed

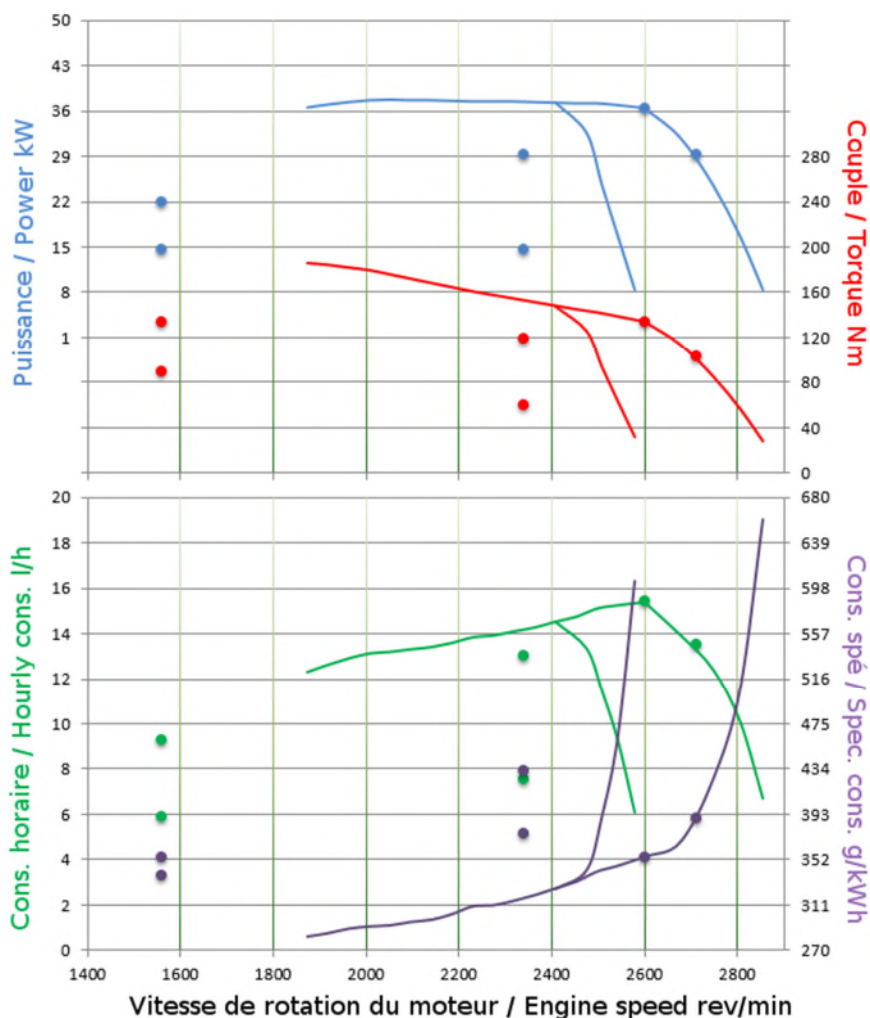
| | | | |
|----------------------------------------|---------|------------------------|-----------------------|
| Power, Engine and Power take-off speed | 36,4 kW | 2600 min ⁻¹ | 583 min ⁻¹ |
| Hourly and specific consumption | | 15,39 l/h | 354 g/kWh |
| Hourly and specific urea consumption | | - l/h | - g/kWh- |

Test at standard Power take-off speed

| | | | |
|----------------------------------------|---------|------------------------|-----------------------|
| Power, Engine and Power take-off speed | 37,3 kW | 2408 min ⁻¹ | 540 min ⁻¹ |
| Hourly and specific consumption | | 14,53 l/h | 326 g/kWh |
| Hourly and specific urea consumption | | - l/h | - g/kWh- |

Torque rise

| | | | |
|--------------------------------------------|----------|------------------------|--------|
| Maximum torque, Engine speed corresponding | 185,9 Nm | 1873 min ⁻¹ | 38,8 % |
|--------------------------------------------|----------|------------------------|--------|



PARTICULATE FILTER ACTIVE REGENERATION FUEL USE

Not Applicable

HYDRAULIC PERFORMANCE AND POWER LIFT TEST

Hydraulic system

Open centre

Relief valve pressure setting (tolerance):

$18 \pm 1,5$ MPa

HYDRAULIC PERFORMANCES

At maximum hydraulic power

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

24,3 l/min

15,95 MPa

6,5 kW

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

Not

Applicable

POWER LIFT

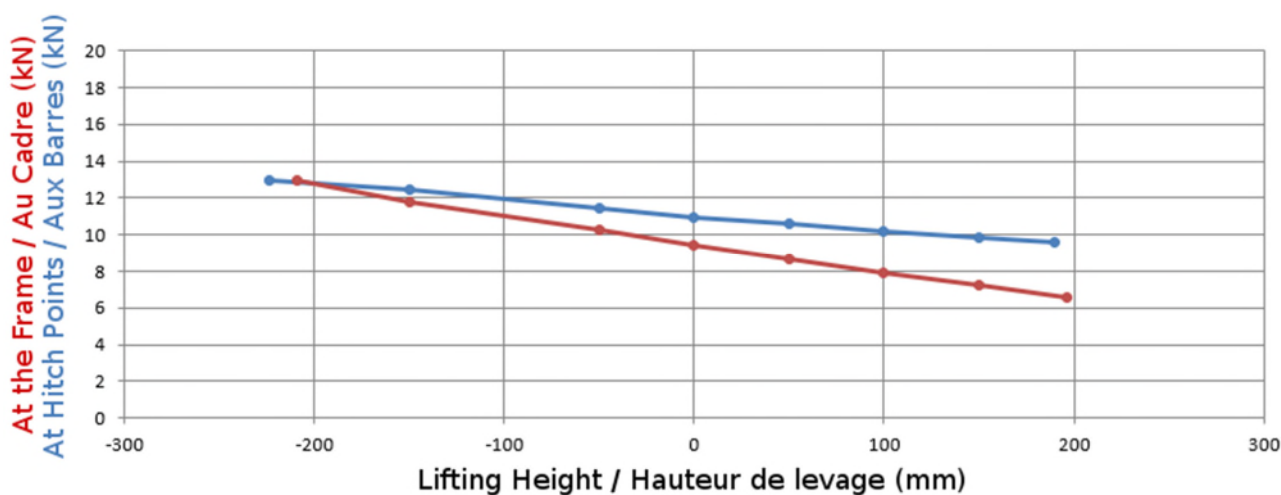
Maximum lifting force

at the hitch points

9,56 kN

at the frame

6,54 kN

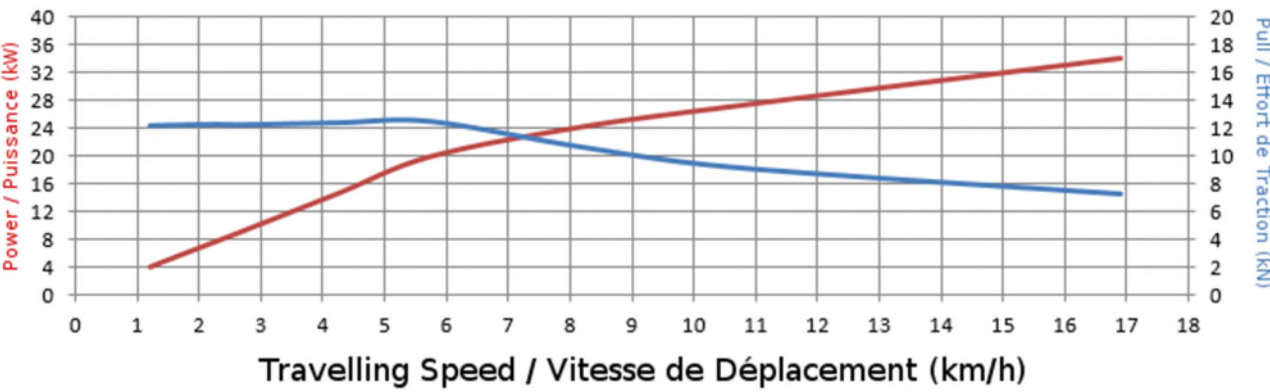


DRAWBAR TEST

| | | |
|-------------------------|------------|------------|
| Front tyres, Rear tyres | 320/65 R18 | 320/65 R18 |
| Inflation pressure | 160 kPa | 160 kPa |

UNBALLASTED

| | |
|----------------------|------------|
| Total Mass | 1485 kg |
| Maximum drawbar pull | 12,47 kN |
| at speed of | 5,75 km/h |
| Maximum power | 33,99 kW |
| at speed of | 16,90 km/h |



BALLASTED

Not Applicable

