



OECD approval number

1 694

Restricted Code

OECD approval date

23/10/1997

Make

Caterpillar

Model

Challenger 85D

Type

Rubber tracklaying tractor

- 10 speeds - 30 km/h

Manufacturer

Caterpillar Agricultural Products Inc.

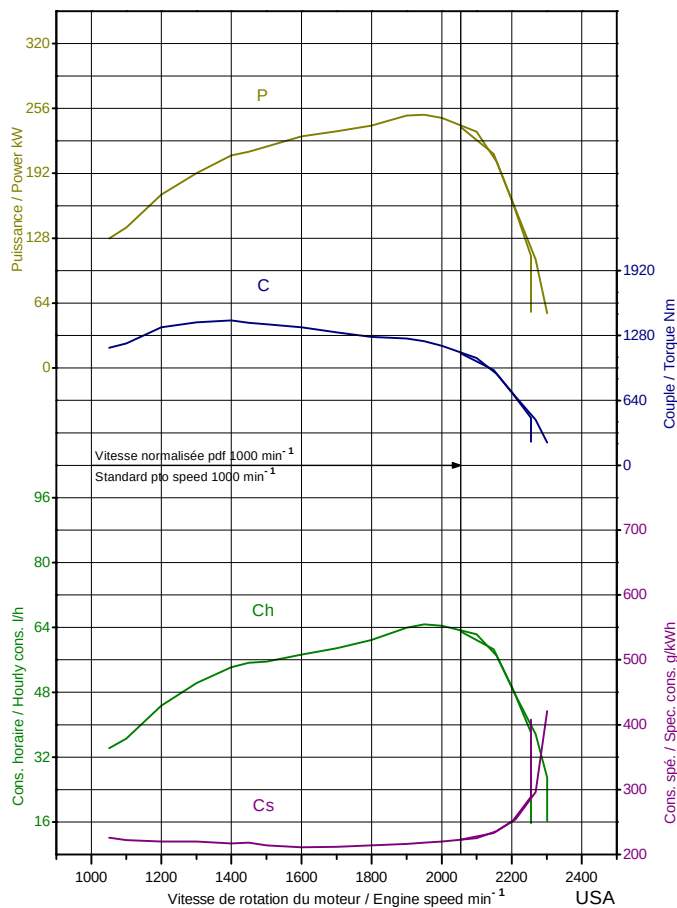
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

Caterpillar Challenger 85 D

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor

OCDE/OECD 1694



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Caterpillar	3196
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	11946 cm ³	Liquid
<i>Gear box</i>		Mechanical powershift
<i>Number of forward and reverse speeds</i>	10	2
<i>Speed at rated engine speed</i>	from 4.51	to 29.11 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>		1024 min ⁻¹
<i>Diameter of the shaft</i>		45 mm
<i>Number of splines</i>		20

Power take-off TestTwo hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	249.8 kW	1950 min ⁻¹	949 min ⁻¹
<i>Hourly and specific consumption</i>		64.83 l/h	218 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	233.0 kW	2100 min ⁻¹	1023 min ⁻¹
<i>Hourly and specific consumption</i>		62.37 l/h	225 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	237.6 kW	2054 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		63.00 l/h	223 g/kWh

Torque rise

34.9 %

Maximum torque, Engine speed corresponding1430.0 Nm 1400 min⁻¹**Drawbar Test***Track length and track width*

8529 mm 762 mm

Test with tractorunballasted ballasted*Total Mass*

15528 kg

Maximum drawbar pull

157.0 kN

Not

at speed of

3.72 km/h

required

Maximum power

219.2 kW

in

at speed of

10.40 km/h

Code 2

Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

At maximum hydraulic power*Flow rate, Pressure, Power*

118.1 l/min

17.3 MPa

34.1 kW

Maximum lifting force*at hitch points, at frame*