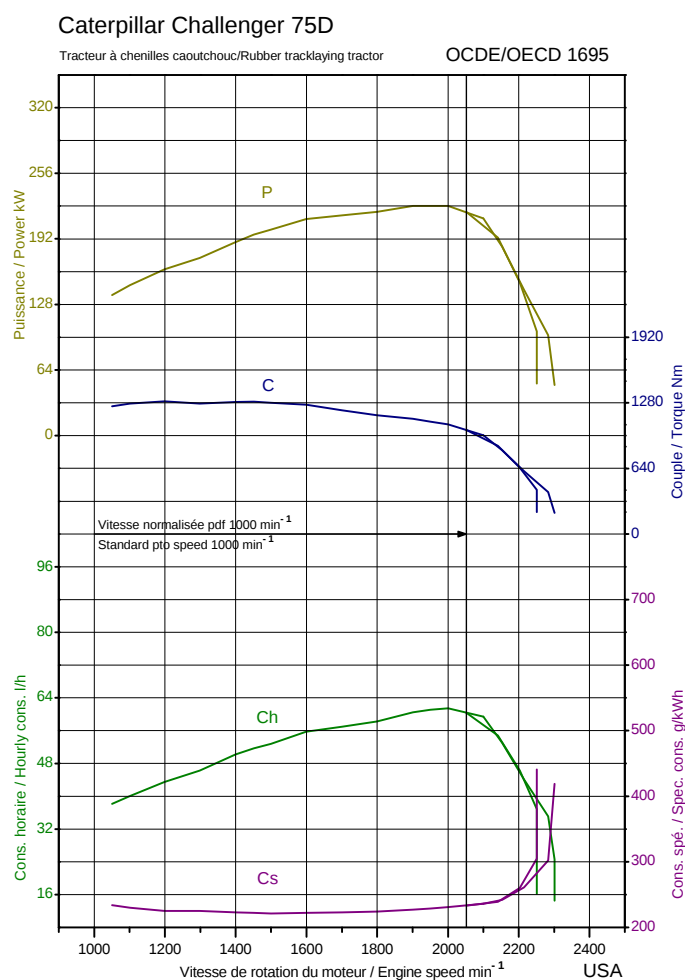




OECD approval number 1 695
Restricted Code
OECD approval date 23/10/1997
Make Caterpillar
Model Challenger 75D
Type Rubber tracklaying tractor
 - 10 speeds - 30 km/h
Manufacturer Caterpillar Agricultural Products Inc.
Testing station: Nebraska Tractor Test Laboratory, Lincoln, USA



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Caterpillar	3176C
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	10308 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 4.28	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>	224.2 kW	1950 min ⁻¹	950 min ⁻¹
<i>Hourly and specific consumption</i>		61.11 l/h	229 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	212.0 kW	2100 min ⁻¹	1023 min ⁻¹
<i>Hourly and specific consumption</i>		59.47 l/h	236 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	218.2 kW	2052 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		60.37 l/h	233 g/kWh

Torque rise

34.2 %

Maximum torque, Engine speed corresponding1294.0 Nm 1199 min⁻¹**Drawbar Test***Track length and track width*

8529 mm 762 mm

Test with tractorunballasted ballasted*Total Mass*

16202 kg

Maximum drawbar pull

154.0 kN

Not

at speed of

3.69 km/h

required

Maximum power

189.8 kW

in

at speed of

7.33 km/h

Code 2

Hydraulic Performance and Power Lift Test*Hydraulic system*

Closed centre

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

113.2 l/min

17.5 MPa

33.0 kW

Maximum lifting force*at hitch points, at frame*

88.3 kN

58.2 kN

