



OECD approval number

2/1 786

Restricted Code

OECD approval date

02/10/1998

Make

Caterpillar

Model

Challenger 75E

Type

Rubber tracklaying tractor

30 km/h

Manufacturer

Caterpillar Agricultural Products Inc.

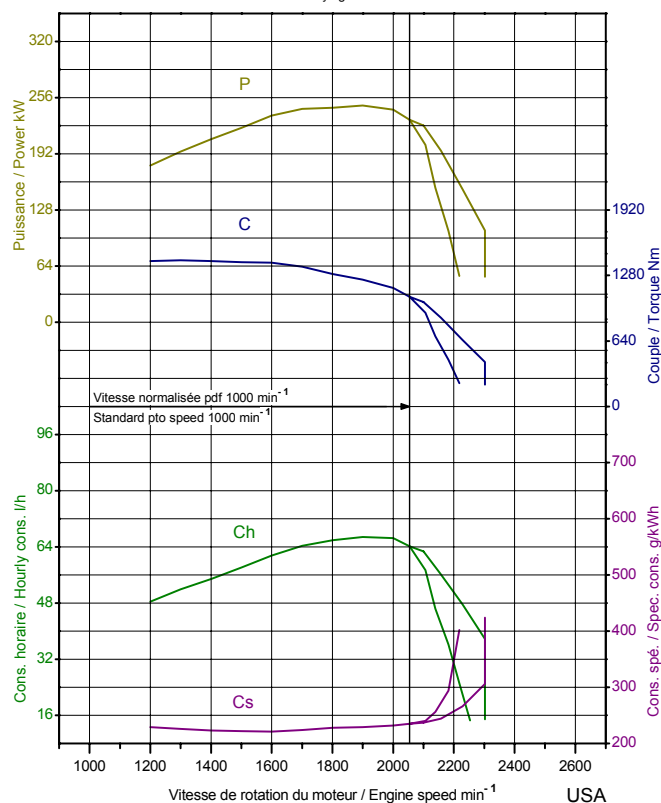
Testing station:

Nebraska Tractor Test Laboratory, Lincoln, USA

Caterpillar Challenger 75E

Tracteur à chenilles caoutchouc/Rubber tracklaying tractor

OCDE/OECD 2/1786



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 4.50	to 28.90 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>	246.9 kW	1900 min ⁻¹	925 min ⁻¹
<i>Hourly and specific consumption</i>		66.80 l/h	229 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	224.2 kW	2100 min ⁻¹	1023 min ⁻¹
<i>Hourly and specific consumption</i>		62.80 l/h	237 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	230.9 kW	2054 min ⁻¹	1000 min ⁻¹
<i>Hourly and specific consumption</i>		64.20 l/h	236 g/kWh

Torque rise

		40.2 %
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Maximum torque, Engine speed corresponding

1430.0 Nm	1300 min ⁻¹
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Drawbar Test*Track length and track width*

8529 mm	762 mm
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Test with tractor

<u>unballasted</u>	<u>ballasted</u>
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Total Mass

15789 kg

Maximum drawbar pull

148.8 kN

at speed of

3.86 km/h

*Not required**Maximum power*

220.3 kW

*in**at speed of*

9.17 km/h

*Code 2***Hydraulic Performance and Power Lift Test***Hydraulic system*

Closed centre

At maximum hydraulic power

<i>Flow rate, Pressure, Power</i>	147.3 l/min	18.1 MPa	44.5 kW
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Maximum lifting force

<i>at hitch points, at frame</i>		81.3 kN	52.7 kN
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