



OECD approval number

2/1 752

Restricted Code

OECD approval date

11/05/1998

Make

Caterpillar

Model

Challenger 55

Type

Rubber tracklaying tractor

Manufacturer

Caterpillar Agricultural Products Inc.

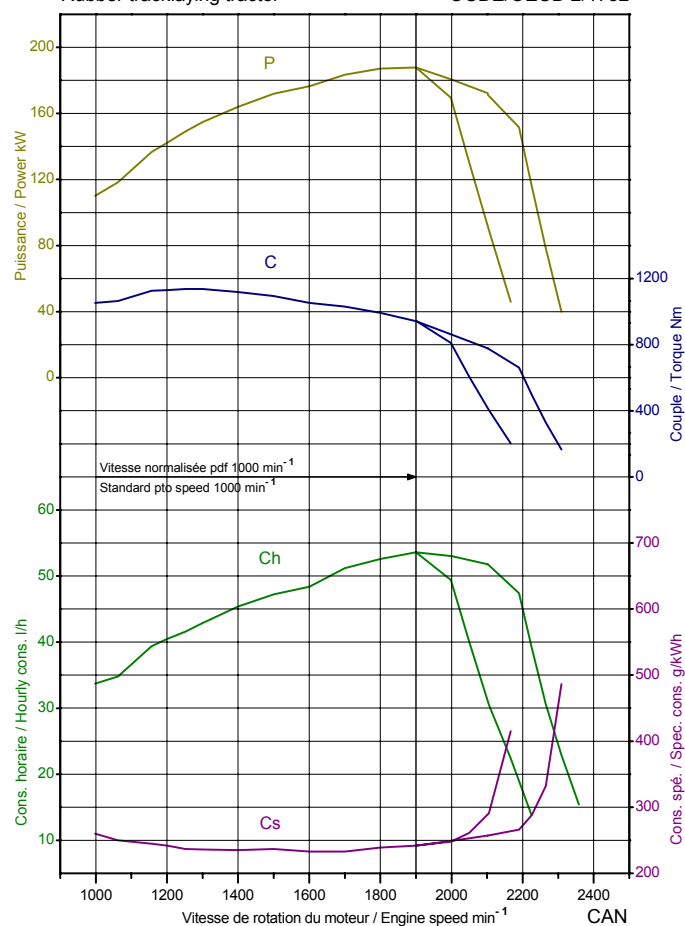
Testing station:

PAMI, Portage La Prairie, Canada

Caterpillar Challenger 55

Rubber tracklaying tractor

OCDE/OECD 2/1752



Engine, Transmission, Power take-off Specifications

<i>Make, Model</i>	Caterpillar	3126/DITATAC
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	6	vertical in line
<i>Capacity, Cooling</i>	7238 cm ³	Liquid
<i>Gear box</i>		Mechanical powershift
<i>Number of forward and reverse speeds</i>		16 9
<i>Speed at rated engine speed</i>		from 2.69 to 28.84 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>		1105 min ⁻¹
<i>Diameter of the shaft</i>		44.95 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>	187.8 kW	1900 min ⁻¹	998 min ⁻¹
<i>Hourly and specific consumption</i>		53.60 l/h	242 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	171.2 kW	2102 min ⁻¹	1104 min ⁻¹
<i>Hourly and specific consumption</i>		51.80 l/h	257 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	187.8 kW	1900 min ⁻¹	998 min ⁻¹
<i>Hourly and specific consumption</i>		53.60 l/h	242 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		1137.3 Nm	1252 min ⁻¹
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Drawbar Test

<i>Track length and track width</i>	2187 mm	635 mm
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	10709 kg	11913 kg
<i>Maximum drawbar pull</i>	114.3 kN	131.2 kN
<i>at speed of</i>	2.44 km/h	3.30 km/h
<i>Maximum power</i>	166.9 kW	165.3 kW
<i>at speed of</i>	8.46 km/h	8.43 km/h

Hydraulic Performance and Power Lift Test

<i>Hydraulic system</i>			Closed centre
<u>At maximum hydraulic power</u>			
<i>Flow rate, Pressure, Power</i>	90.4 l/min	16.3 MPa	24.5 kW
<u>Maximum lifting force</u>			
<i>at hitch points, at frame</i>		57.1 kN	50.3 kN