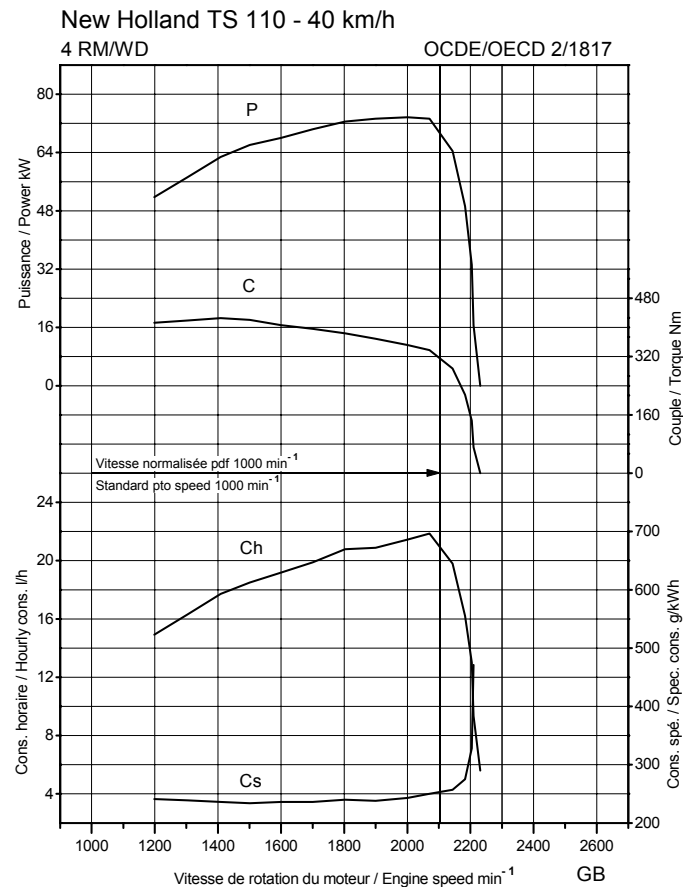




SRI, Silsoe, United Kingdom



**Engine, Transmission, Power take-off Specifications**

<i>Make, Model</i>	New Holland	450T/PD
<i>Type, Supercharging</i>	Direct injection	Yes
<i>Cylinders, Disposition</i>	4	vertical in line
<i>Capacity, Cooling</i>	4987 cm <sup>3</sup>	Liquid
<i>Gear box</i>		Electro mechanical
<i>Number of forward and reverse speeds</i>		16 16
<i>Speed at rated engine speed</i>		from 2.22 to 39.50 km/h
<u>Standard Power take-off speed</u>		<u>540 min<sup>-1</sup></u> <u>1000 min<sup>-1</sup></u>
<i>Power take-off speed at rated engine speed</i>		591 min <sup>-1</sup> 985 min <sup>-1</sup>
<i>Diameter of the shaft</i>		35 mm 35 mm
<i>Number of splines</i>		6 21

**Power take-off Test**Two hours test at maximum power

<i>Power, Engine and Power take-off speed</i>	73.7 kW	2000 min <sup>-1</sup>	951 min <sup>-1</sup>
<i>Hourly and specific consumption</i>		21.44 l/h	243 g/kWh

Test at maximum power at rated engine speed

<i>Power, Engine and Power take-off speed</i>	73.3 kW	2070 min <sup>-1</sup>	984 min <sup>-1</sup>
<i>Hourly and specific consumption</i>		21.87 l/h	250 g/kWh

Test at standard Power take-off speed

<i>Power, Engine and Power take-off speed</i>	73.3 kW	2070 min <sup>-1</sup>	984 min <sup>-1</sup>
<i>Hourly and specific consumption</i>		21.87 l/h	250 g/kWh

Torque rise

<i>Maximum torque, Engine speed corresponding</i>		425.6 Nm	1409 min <sup>-1</sup>
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**Drawbar Test**

<i>Front tyres, Rear tyres</i>	14.9 R 28	18.4 R 38
<u>Test with tractor</u>	<u>unballasted</u>	<u>ballasted</u>
<i>Total Mass</i>	4535 kg	
<i>Maximum drawbar pull</i>	45.0 kN	Not
<i>at speed of</i>	2.03 km/h	required
<i>Maximum power</i>	60.6 kW	in
<i>at speed of</i>	8.67 km/h	Code 2

**Hydraulic Performance and Power Lift Test**

<i>Hydraulic system</i>			Closed centre
<u>At maximum hydraulic power</u>			
<i>Flow rate, Pressure, Power</i>	69.5 l/min	15.4 MPa	17.8 kW
<u>Maximum lifting force</u>			
<i>at hitch points, at frame</i>		20.0 kN	15.2 kN