

DLG-Data Sheet Tractors 2003

New Holland TM 140

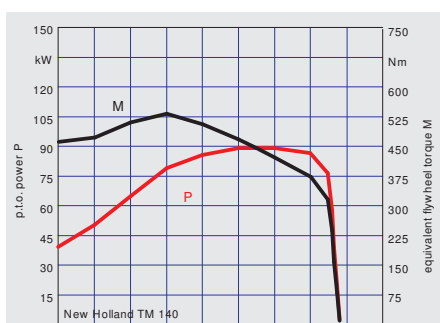
DLG-top agrar Test Issue No. 12/2002

Engine

New Holland 675TA/HB, rated engine power 106 kW at 2200 min⁻¹, turbocharger, intercooler, 6 cylinder, capacity 7507 cm³, bore 112 mm, stroke 127 mm, water cooled, viscous fan, average pressure 7,7 daN/cm², fuel tank capacity 285 l

Measurement at main power take off

	Rated engine speed 2200 min ⁻¹	Engine speed at max power 1900 min ⁻¹
Power	86,8 kW	89,3 kW
Fuel consumption	29,2 l/h	27,1 l/h
Specific fuel cons.	282 g/kWh	253 g/kWh



Average fuel consumption of

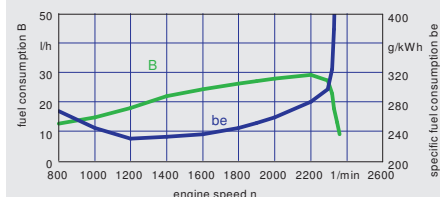
the 6 measurement points from the governor curve 19,8 l/h, 352 g/kWh

Equivalent flywheel torque

Max. torque 536 Nm at 1400 min⁻¹, torque increase 43 % at a speed drop of 36 %

Torque at engine speed 1000 min⁻¹

127 % rated to the torque at rated engine speed



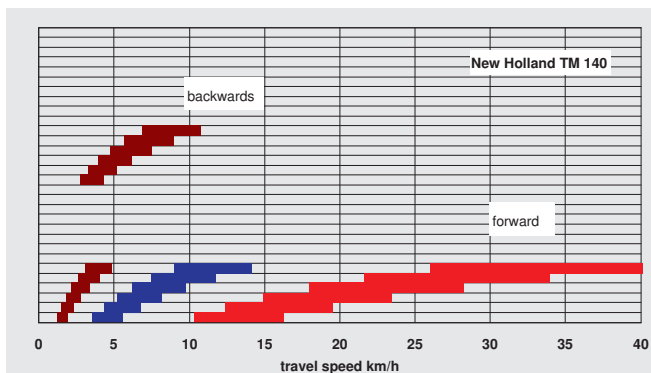
Power take off

Wet multi-disc clutch, electro-hydraulically operated by lever; 1 rear p.t.o., form 1 or 2, triple shifting; changeable

Standard speed	540	540 E	1000	1000E
Engine speed	1970 min ⁻¹	1546 min ⁻¹	2120 min ⁻¹	-

Gearbox

Wet multi-disc clutch, 18 forward, 6 reverse; selectable gearbox with 4 gears, power shifted; range gearbox with 3 ranges forwards and 1 range reverse, synchronised; 2 shift levers, 3 switches



Speed scheme arranged by groups, for every gear in the speed range from the engine speed at max. torque to the rated engine speed.

Drawbar power

Max. power 73,2 kW at 6,9 km/h and engine speed 1900 min⁻¹, at 311 g/kWh; at rated engine speed 70,5 kW at 8,1 km/h, at 350 g/kWh

Chassis

All wheel drive, central driving shaft with universal joints, wet multi-disc clutch, electro-hydraulically operated; front multi-plate differential lock, rear dog clutch differential lock, common electro-hydraulically operated; hydro-pneumatically suspended front axle

Front	Tyre 540/65 R 28
Rear	Tyre 650/65 R 38



Brakes

Oil-immersed disc brake at the rear axle; automatic engagement of 4WD

Cab

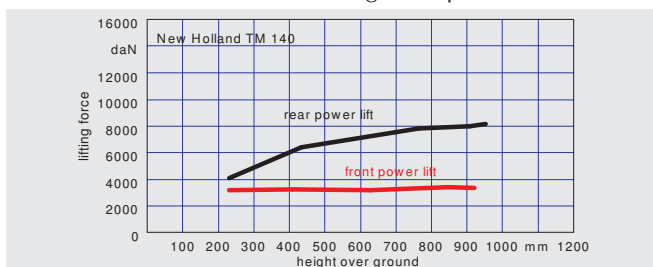
CNH SLTV9, OECD-No. 4/0 698, 2 doors, rear, front and side windows tiltable, cooling water heat exchanger, air conditioner

Sound levels at drivers ear

	Unloaded	Under load
At 7.5km/h, nominal gear selected, all openings closed	-	75,5 dB(A)
Open	-	-
In loudest gear, all openings closed	77,5 dB(A)	-

Hydraulic system

Closed centre type; pressure and flow compensated system, power lift category 3, 2 additional cylinders with 75 mm diameter, electronic lower link sensing, front power lift



Oil tapping port

Max flow rate 119,9 l/min; max. hydraulic power 31,7 kW at 180 bar and 105,6 l/min; max. pressure 208 bar; oil together with gear box with 90 l capacity, available to external cylinders 35 l

Masses/Axle load

Mass	Test tractor	Permissible total mass
Front	2830 kg	3800 kg
Rear	3620 kg	7500 kg
Total	6450 kg	9000 kg

Tractor mass to engine power ratio 61 kg/kW

Dimensions

Width 2485 mm, length 5400 mm, height at top of exhaust silencer pipe 3100 mm, at cab 2980 mm, wheel base 2783 mm, distance from p.t.o. shaft end to trailer hitch 200 mm, distance from p.t.o. shaft end to lower link couplers 600 mm



Test centre

DLG-Prüfstelle für Landmaschinen