

DLG-Data Sheet Tractors 2003

Fendt Farmer 412 Vario

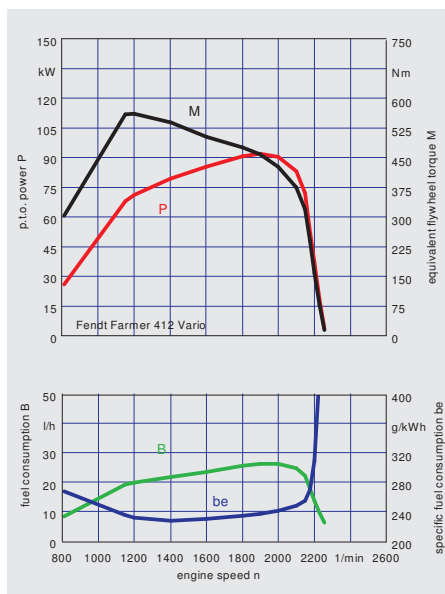
OECD Test No. 2/2067

Engine

Deutz 1004-40T, rated engine power 88 kW at 2100 min⁻¹, turbocharger, intercooler, 4 cylinder, capacity 3802 cm³, bore 98 mm, stroke 126 mm, water cooled, viscous fan, average pressure 13,2 daN/cm², fuel tank capacity 165 l

Measurement at main power take off

	Rated engine speed 2100 min ⁻¹	Engine speed at max power 1900 min ⁻¹
Power	82,9 kW	92,0 kW
Fuel consumption	24,9 l/h	26,3 l/h
Specific fuel cons.	250 g/kWh	238 g/kWh



Average fuel consumption of

the 6 measurement points from the governor curve 15,6 l/h, 294 g/kWh

Equivalent flywheel torque

Max. torque 565 Nm at 1200 min⁻¹, torque increase 50 % at a speed drop of 43 %

Torque at engine speed 1000 min⁻¹

112 % rated to the torque at rated engine speed

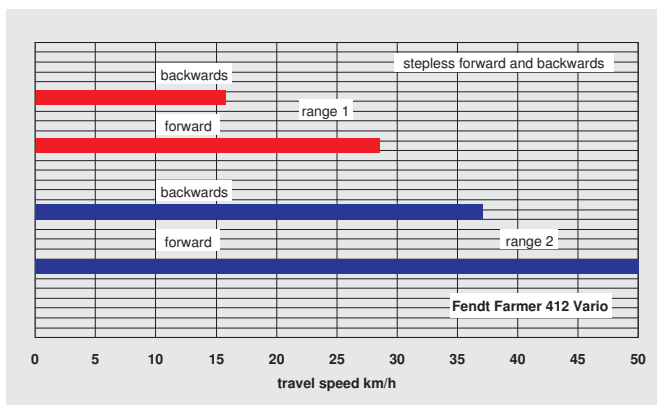
Power take off

Wet multi-disc clutch, electro-hydraulically operated with switch, 1 rear p.t.o., form 1, triple shifting

Standard speed	540	540 E	1000	1000E
Engine speed	1933 min ⁻¹	1503 min ⁻¹	1937 min ⁻¹	-

Gearbox

Stepless, variable power branching gearbox, 2 speed ranges for forward and reverse; 1 shift lever, 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 76,0 kW at 9,5 km/h and engine speed 1900 min⁻¹, at 293 g/kWh; at rated engine speed 70,1 kW at 10,9 km/h, at 304 g/kWh

Chassis

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

Front	Tyre 540/65 R 24
Rear	Tyre 600/65 R 38



Brakes

Oil-immersed disc brake at the rear axle, automatic engagement of 4WD; maximum mean deceleration 4,9 m/s² at 52 daN applied pedal pressure

Cab

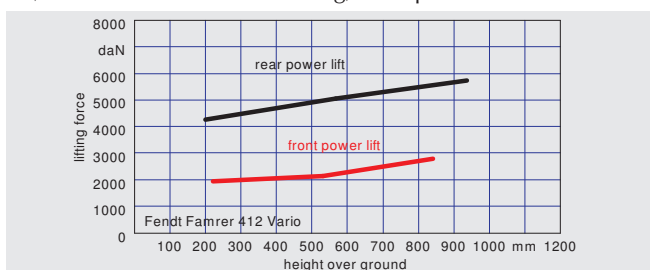
AGCO Fendt 411.810, OECD-No. 4/0 626, 2 doors, rear, front and side windows tiltable, roof hatch, cooling water heat exchanger, air conditioner

Sound levels at drivers ear

	Unloaded	Under load
At 7.5km/h, nominal gear selected, all openings closed	70,0 dB(A)	73,0 dB(A)
Open	78,5 dB(A)	81,5 dB(A)
In loudest gear, all openings closed	-	-

Hydraulic system

Closed centre type; pressure and flow compensated system; power lift category 2, 2 external cylinders with 90 mm diameter, electronic lower link sensing, front power lift



Oil tapping port

Max flow rate 114,8 l/min; max. hydraulic power 29,4 kW at 180 bar and 97,9 l/min; max. pressure 207 bar; separate hydraulic oil tank with 42 l capacity, available to external cylinders 35 l

Masses/Axle load

Mass	Test tractor	Permissible total mass
Front	2100 kg	3960 kg
Rear	3270 kg	6090 kg
Total	5370 kg	9000 kg

Tractor mass to engine power ratio 61 kg/kW

Dimensions

Width 2378 mm, length 4694 mm, height at top of exhaust silencer pipe 2800 mm, at cab 2845 mm, wheel base 2417 mm, distance from p.t.o. shaft end to trailer hitch 210 mm, distance from p.t.o. shaft end to lower link couplers 590 mm



Test centre

DLG-Prüfstelle für Landmaschinen