

Deutz-Fahr 6160.4 AgrottronTTV

APPLICANT

Same Deutz-Fahr Schweiz AG
Pfattstrasse 5
9536 Schwarzenbach

TRACTOR

Manufacturer: Deutz Fahr
Model: Deutz Fahr
6160.4 Agrottron TTV
Approval certificate no.: 4DA3 28

SUSPENSION AND BRAKES

Central four-wheel drive with powershift transmission
Front axle suspension (disengageable)
Wet disc brake on front and rear axle
Automatic all-wheel activation
Electronic parking brake

DRIVER PROTECTION

Integrated safety cab with pneumatique suspension

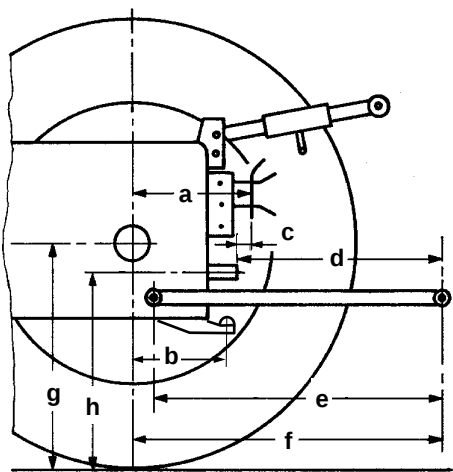


TYRES

	Track width:
front: 540/65 R28	1980 mm
rear: 650/65 R38	1850 mm

DIMENSIONS

Length:	— mm
With front mounting:	4870 mm
Front overhang from steering wheel:	2780 mm
Width:	2550 mm
Height:	3010 mm
Wheelbase:	2420 mm
Ground clearance:	400 mm
Turning diameter:	11,1 m (without four-wheel drive) 11,8 m (with four-wheel drive)



Rear

a: 690 mm
b: — mm
c: 190 mm
d: 620 mm
e: 980 mm
f: 1120 mm
g: 870 mm
h: 800 mm

Front

d: 620 mm
e: 800 mm
f: 1170 mm
g: 670 mm
h: 850 mm

TEST EQUIPMENT

- front 3-point hitch and PTO
- air-conditioning compressor
- air compressor

WEIGHT

in test equipment

Front:	2930 kg	40 %
Rear:	4470 kg	
Total:	7400 kg	

Permissible front axle load:	4700 kg
Permissible rear axle load:	8000 kg
Permissible total weight:	10500 kg

Payload:	3100 kg
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Towed weight, braked:	31 500 kg
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CAPACITIES

Fuel tank	230 l	
AdBlue tank	28 l	
Engine oil	16 l	(change interval 500h)
Gearbox	67 l	(change interval 1000 h)
Hydraulic oil	60 l	(change interval 1000 h)

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ENGINE (Manufacturer's data)

Manufacturer: Deutz
 Model: TCD 4.1 L4
 Injection: Diesel direct injection
 CommonRail
 Supercharging: Exhaust gas turbocharger and air-to-air intercooling
 Exhaust emission treatment: SCR

Bore/stroke: 101 / 126 mm
 Cylinders / capacity: 4 / 4038 cm³
 Cooling: Water, viscous fan

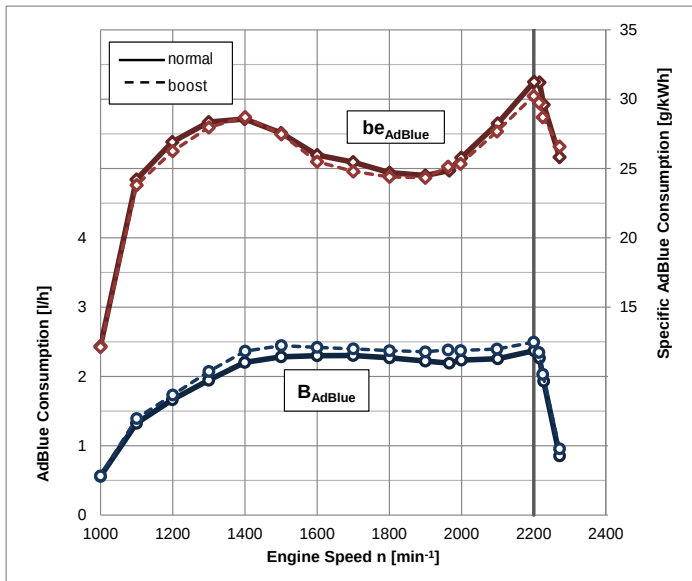
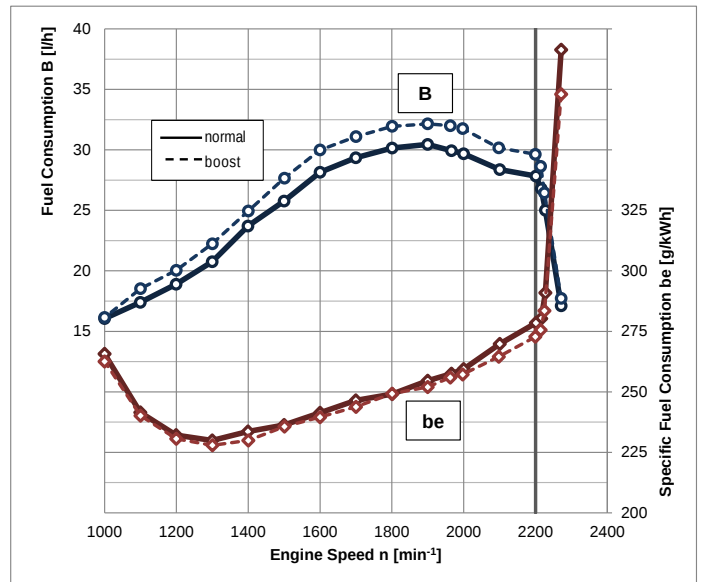
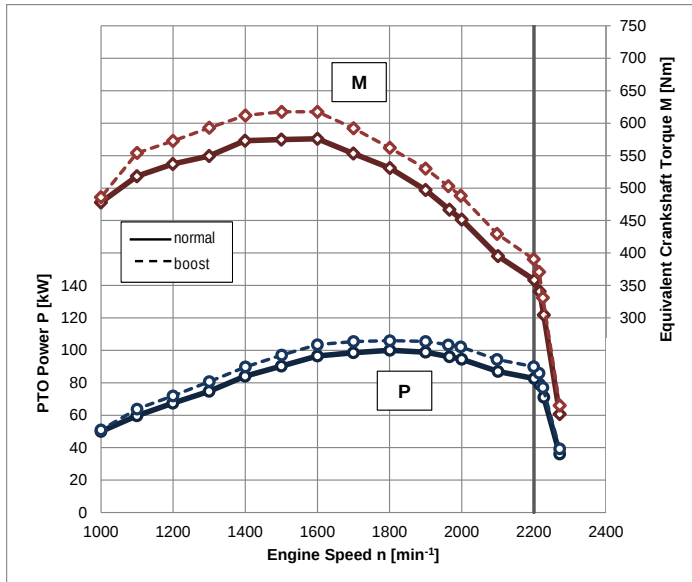
Rated power: 113 kW (153 PS) EG 97/68
 With boost:

Rated engine speed: 2200 min⁻¹
 Exhaust stage: IIIB

POWER TAKE-OFF MEASUREMENT

Criteria for boost activation

- Transportation work:
Speed in excess of 20 km/h
- PTO work:
PTO work and more than 1,0 km/h driving speed



Measurement conditions:

- air temperature: 20 °C
- relative atmospheric humidity: 53 %
- atmospheric pressure: 953 mbar



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Full load test values

		Speed [min ⁻¹]		Power		Fuel consumption		AdBlue consumption	
		Engine	PTO	kW	HP	Specific [g/kWh]	Absolute [l/h]	Specific [g/kWh]	Absolute [l/h]
Rated power	normal	2200	1120	82,7	112,4	278	27,9	31	2,4
	boost			89,9	122,3	273	29,6	30	2,5
Maximum power	normal	1800	916	100,3	136,4	248	30,2	24	2,2
	boost			106,0	144,1	249	32,0	24	2,4
Normal speed PTO	normal	1964	1000	96,1	130,7	258	29,9	25	2,2
	boost			103,4	140,6	256	32,0	25	2,4

Max. torque: 576 Nm at 1600 min⁻¹
 Torque increase: 61 % at 27 % speed drop
 Starting torque: 133 %
 Idling speed: 843 min⁻¹
 Cutoff speed: 2318 min⁻¹

Boost

618 Nm, at 1600 min⁻¹
 58 % at 27 % speed drop
 124 %

Partial load values

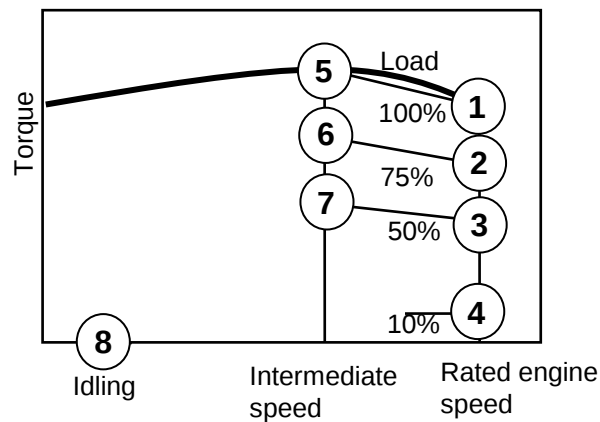
Fuel consumption with 42,5 % partial load at normal PTO speed

PTO shaft Fuel AdBlue
 1000 min⁻¹: 316 g/kWh, 15,5 l/h 27 g/kWh, 1,0 l/h
 1000E min⁻¹: 275 g/kWh, 13,6 l/h 27 g/kWh, 1,0 l/h

Boost

Fuel AdBlue
 310 g/kWh, 16,4 l/h 27 g/kWh, 1,1 l/h
 273 g/kWh, 16,4 l/h 27 g/kWh, 1,1 l/h

In characteristic diagram (with boost)



Measuring point	Fuel consumption		AdBlue consumption	
	Specific [g/kWh]	Absolute [l/h]	Specific [g/kWh]	Absolute [l/h]
1	273	29,7	30	2,5
2	292	23,9	35	2,2
3	340	18,6	27	1,1
4	843	10,0	40	0,4
5	240	30,0	26	2,5
6	240	22,6	30	2,1
7	255	16,0	28	1,4
8	-	2,0	-	0,0

EMISSIONS

Exhaust gas emissions

- Black smoke 0,20 SZ (BOSCH)

Emissions according to ISO 8178-4, C1

(with boost)

- Hydrocarbons HC 0,03 g/kWh*
- Nitrogen oxides NOx 3,81 g/kWh*
- Carbon monoxide CO 0,08 g/kWh*
- Particulate number Pn 1,7E13 #/kWh*
- Cycle consumption
 - Fuel 287 g/kWh* (19,0 l/h)
 - AdBlue 30 g/kWh* (1,5 l/h)

Noise level

- Noise level at driver's ear: 74,0 dB(A)
- Passing noise: 82,5 dB(A)

* With reference to PTO power



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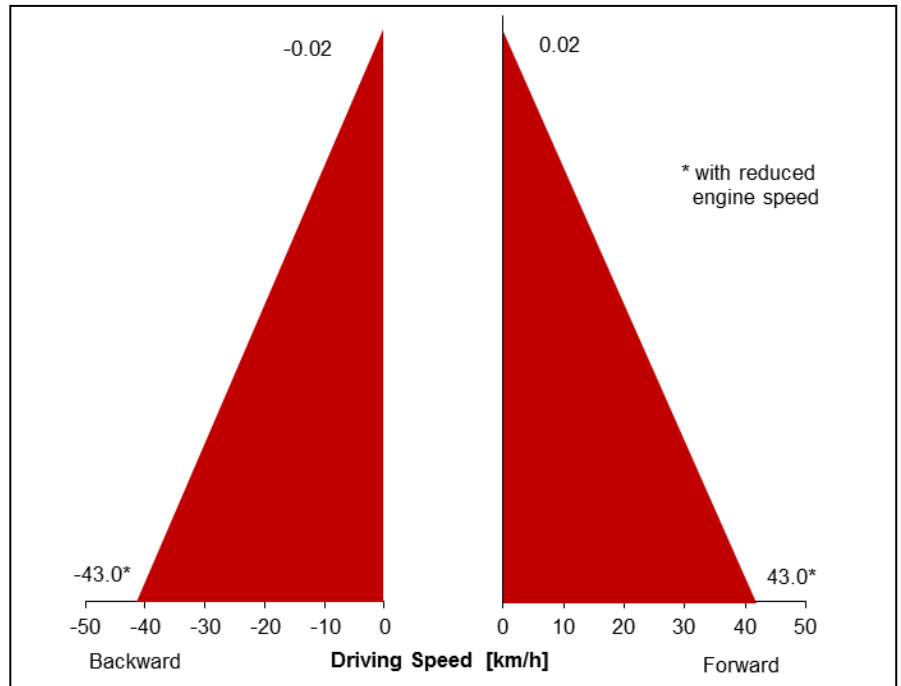
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TRANSMISSION

Travel gear

- Continuously variable transmission
- hydrostatic / mechanical power split

Driving speed at rated engine speed
(tyre radius $r = 875$ mm)



PTO transmission

Rear

- Wet multi-plate clutch, electro-hydraulic engagement

Front

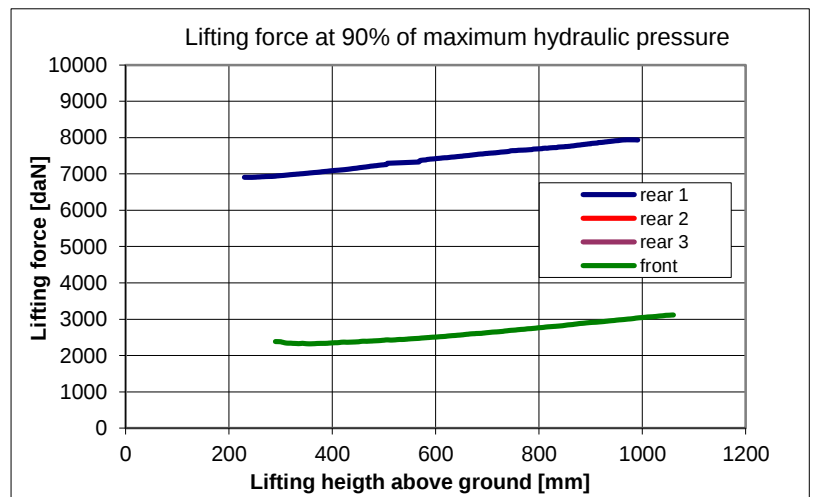
- Wet multi-plate clutch, electro-hydraulic engagement

	Rear						Front
PTO shaft	430	540	540E	1000	1000 E	Ground speed	1000
Engine speed	-	1965	1646	1964	1645	-	1929

HYDRAULICS

Remote hydraulics

- max. oil pressure: 204,6 bar
- max. flow rate : 163,7 l/min
- flow rate: 156,7 l/min at 173,9 bar
- max. hydraulic power: 49,1 kW (156,2 l/min and 188,7 bar)
- max. flow rate through a single coupler: 97,7 l/min
- max. quantity of oil taken: 40 l



3-Point Hitch

Rear

3-Point Hitch, category: III
Control hydraulics via lower link, (EHR)

Front

3-Point Hitch, category: II

			Lifting force at 90% pressure	
Measurement		Lifting movement	Continuous	Maximum
Rear	Lower link, short	761 mm	6905 daN	7940 daN
	Lower link, medium			
	Lower link, long			
Front		770 mm (290 mm to 1060 mm)	2320 daN	3120 daN

Explanatory notes on tractor test at:
www.traktorentest.ch



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