

Steyr 4130 Profi

Tractor Test No. 1993/13

APPLICANT

CNH Österreich GmbH
Steyrer Strasse 32
A-4300 St. Valentin

TRACTOR

Manufacturer: CNH Europe
Model: Steyr 4130 Profi
Approval certificate no.: 4SB2 39

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 mechanical suspension

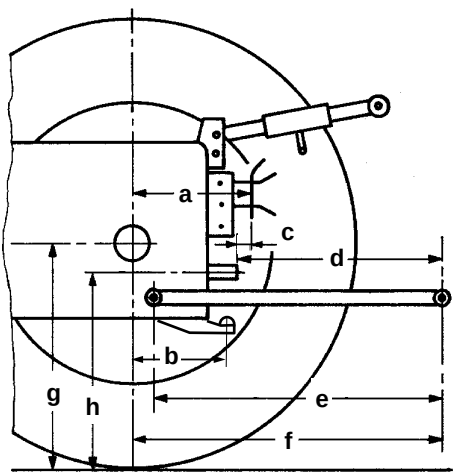


TYRES

	Track width:
front: 480/65 R28	1790 mm
rear: 600/65 R38	1730 mm

DIMENSIONS

Length:	4440 mm
With front mounting:	— mm
Front overhang from steering wheel:	— mm
Width:	2430 mm
Height:	3020 mm
Wheelbase:	2440 mm
Ground clearance:	440 mm
Turning diameter:	11,2 m (without four-wheel drive) 11,9 m (with four-wheel drive)



Rear

a: 740 mm
b: — mm
c: 200 mm
d: 600 mm
e: 1000 mm
f: 1140 mm
g: 840 mm
h: 800 mm

Front

d: — mm
e: — mm
f: — mm
g: — mm
h: — mm

TEST EQUIPMENT

- air-conditioning compressor
- air compressor

WEIGHT

in test equipment

Front:	2460 kg	42 %
Rear:	3440 kg	
Total:	5900 kg	

Permissible front axle load:	4100 kg
Permissible rear axle load:	7300 kg
Permissible total weight:	9000 kg

Payload:	3100 kg
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Towed weight, braked:	32 000 kg
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CAPACITIES

Fuel tank	175 l	
AdBlue tank	37 l	
Engine oil	10 l	(change interval 600 h)
Gearbox and Hydraulic oil	62 l	(change interval 1200 h)

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ENGINE (Manufacturer's data)

Manufacturer: Iveco
 Model: F4 DFE 413A
 Injection: Diesel direct injection
 CommonRail
 Supercharging: Exhaust gas turbocharger and air-to-air intercooling
 Exhaust emission treatment: SCR

Bore/stroke: 104 / 132 mm
 Cylinders / capacity: 4 / 4485 cm³
 Cooling: Water, viscous fan

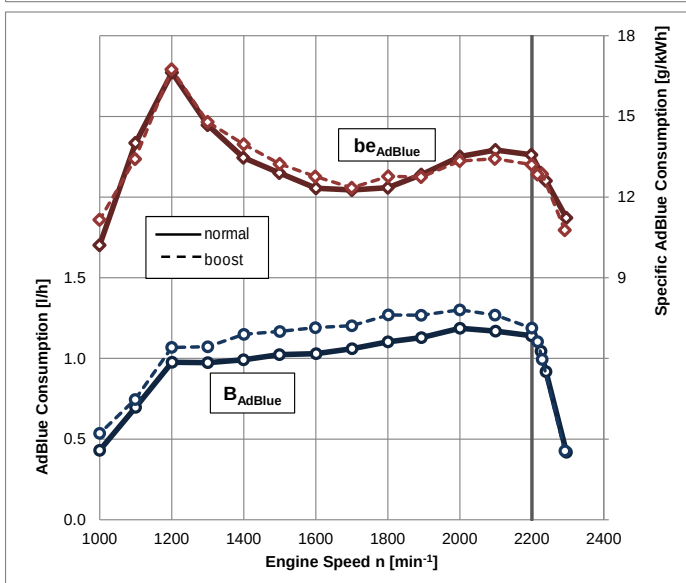
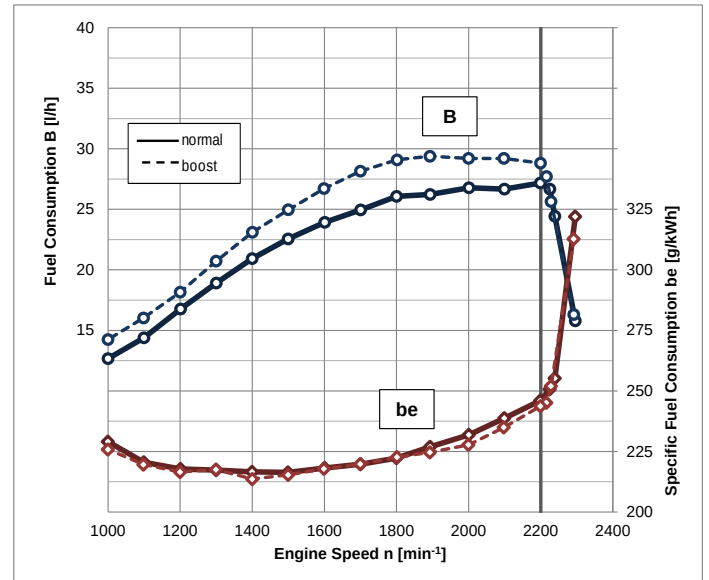
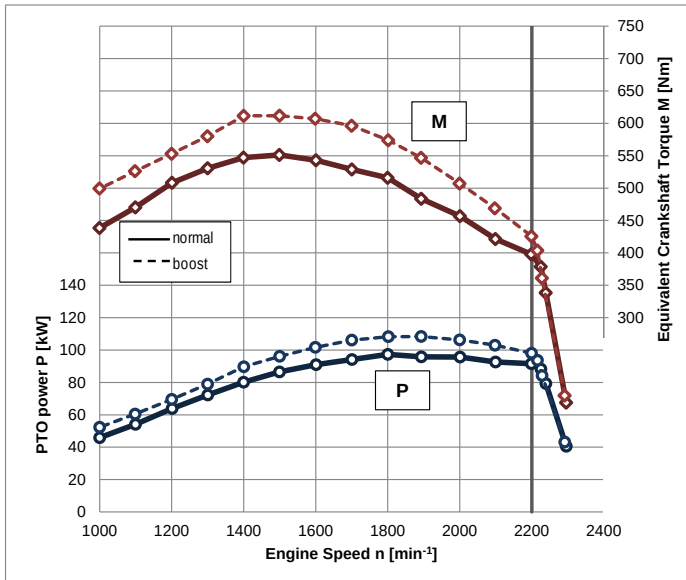
Rated power: 96 kW (131 PS) ECE R120
 With boost: 110 kW (150 PS) ECE R120

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

POWER TAKE-OFF MEASUREMENT

Criteria for boost activation

- Transportation tasks:
from 13th gear onwards
- PTO-driven tasks:
minimum torque of 250 Nm and minimum
speed of 0,5 km/h



Measurement conditions:

- air temperature: 20 °C
- relative atmospheric humidity: 50 %
- atmospheric pressure: 955 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	1162	91,6	124,5	246	27,2	14	1,1
	boost			98,0	133,3	244	28,8	13	1,2
Maximum power	normal	1800	951	97,2	132,1	223	26,1	12	1,1
	boost	1893	1000	108,4	147,4	225	29,4	13	1,3
Normal speed PTO	normal	1893	1000	95,9	130,3	227	26,2	13	1,1
	boost			108,4	147,4	225	29,4	13	1,3

Max. torque: 551 Nm at 1500 min⁻¹
 Torque increase: 39 % at 32 % speed drop
 Starting torque: 110 %
 Idling speed: 850 min⁻¹
 Cutoff speed: 2353 min⁻¹

Boost

612 Nm, at 1500 min⁻¹
 44 % at 32 % speed drop
 117 %

Partial load values

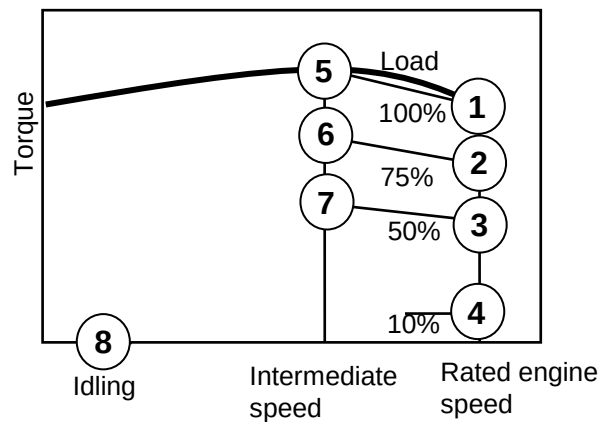
Fuel consumption with 42,5 % partial load at normal PTO speed

PTO shaft 1000 min⁻¹: Fuel 269 g/kWh, 13,2 l/h AdBlue 13 g/kWh, 0,5 l/h

Boost

Fuel 260 g/kWh, 14,4 l/h AdBlue 13 g/kWh, 0,6 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	244	28,8	13	1,2
2	256	22,7	14	1,0
3	286	17,0	14	0,7
4	684	8,1	7	0,1
5	216	25,0	13	1,2
6	219	19,1	14	0,9
7	235	13,6	13	0,6
8	-	1,6	-	0,0

EMISSIONS

Exhaust gas emissions

- Black smoke 0,10 SZ (BOSCH)

Emissions according to ISO 8178-4, C1

(with boost)

- Hydrocarbons HC 0,03 g/kWh*
- Nitrogen oxides NOx 3,93 g/kWh*
- Carbon monoxide CO 0,52 g/kWh*
- Particulate number Pn 2,3E13 #/kWh*
- Cycle consumption
 - Fuel 254 g/kWh* (17,1 l/h)
 - AdBlue 14 g/kWh* (0,7 l/h)

Noise level

- Noise level at driver's ear: 75,0 dB(A)
- Passing noise: 85,0 dB(A)

* With reference to PTO power



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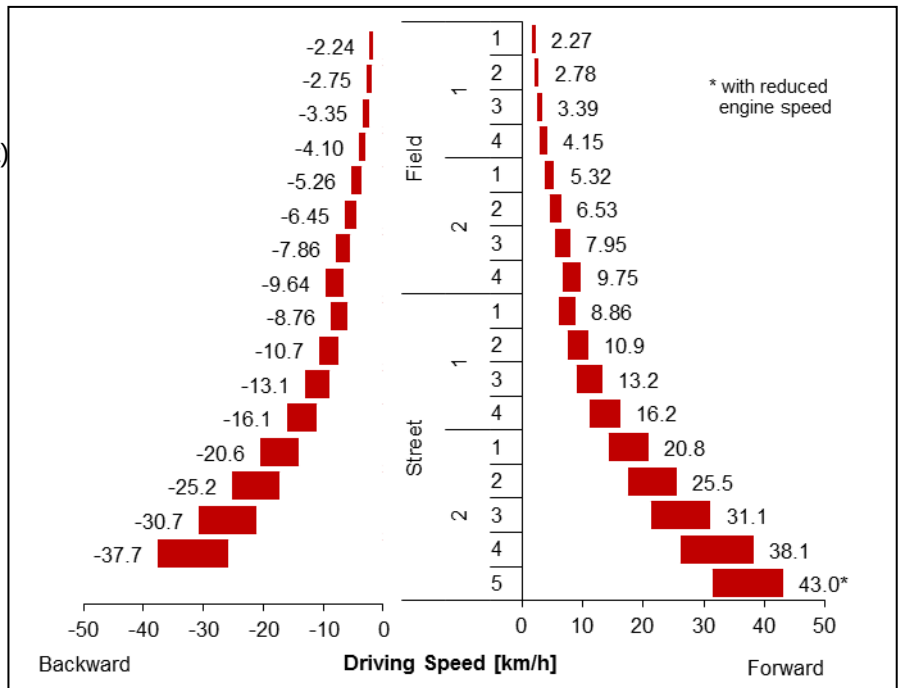
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TRANSMISSION

Travel gear

- 17 forward and 16 reverse gears
- Wet multi-disc clutch
- 2 groups
- with 2 gears (electrohydraulic engagement)
- 4 (5) powershift stages
- Powershift reverse gearbox

Driving speed at rated engine speed
(tyre radius $r = 825$ mm)



PTO transmission

Rear

- Wet multi-plate clutch, electro-hydraulic engagement

Front

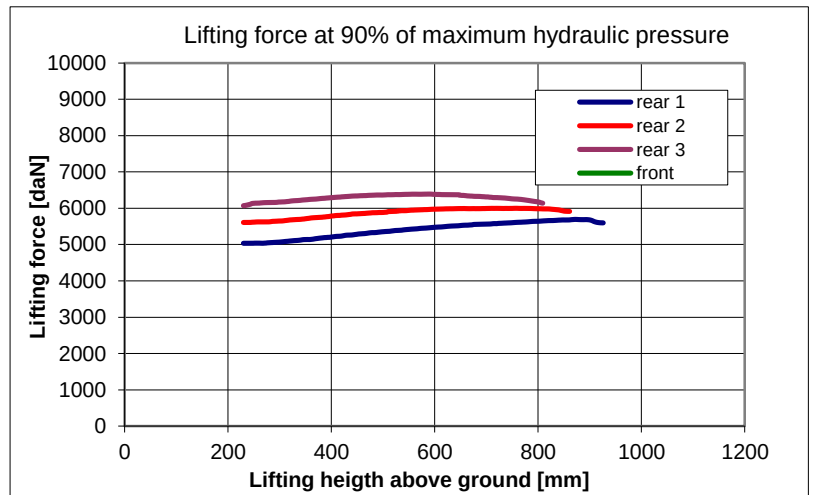
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	Rear						Front
PTO shaft	430	540	540E	1000	1000 E	Ground speed	1000
Engine speed	-	1969	1546	1893	-	-	-

HYDRAULICS

Remote hydraulics

- max. oil pressure: 212,3 bar
- max. flow rate : 100,5 l/min
- flow rate: 97,8 l/min at 180,5 bar
- max. hydraulic power: 31,4 kW (97,2 l/min and 193,9 bar)
- max. flow rate through a single coupler: 100,0 l/min
- max. quantity of oil taken: 38 (45) l



3-Point Hitch

Rear

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

Front

-

		Lifting force at 90% pressure		
Measurement	Lifting movement	Continuous	Maximum	
Rear	Lower link, short	696 mm	5035 daN	5695 daN
	Lower link, medium	631 mm	5610 daN	6000 daN
	Lower link, long	579 mm	6050 daN	6395 daN
Front	-	-	-	-

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



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