

Steyr 4115 Multi

Tractor Test No. 2000/14

APPLICANT

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

TRACTOR

Manufacturer CNH Europe
Model Steyr 4115 Multi
Approval certificate no. 4SB2 52

SUSPENSION AND BRAKES

Central four-wheel drive with powershift transmission
Wet disc brake on front and rear axle
Mechanical / electric parking brake

DRIVER PROTECTION

Integrated safety cab with mechanical suspension



TYRES

		Track width
front	480/65 R24	1840 mm
rear	540/65 R38	1730 mm

DIMENSIONS

Length	— mm
With front mounting	4710 mm
Front overhang from steering wheel	2700 mm
Width	2320 mm
Height	2700 mm
Wheelbase	2420 mm
Ground clearance	380 mm
Turning diameter	10,3 m (without four-wheel drive) 11,3 m (with four-wheel drive)

TEST EQUIPMENT

- front 3-Point Hitch and PTO
- air-conditioning compressor
- air compressor

WEIGHT

in test equipment

Front	2240 kg	43 %
Rear	2920 kg	
Total	5160 kg	

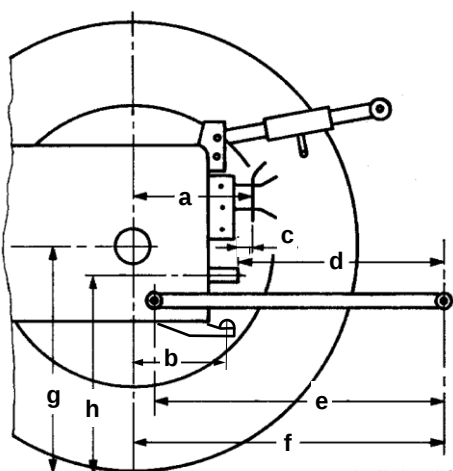
Permissible front axle load	3300 kg
Permissible rear axle load	5000 kg
Permissible total weight	7800 kg

Payload	2640 kg
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Towed weight, braked	34 000 kg
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CAPACITIES

Fuel tank	150 l	
AdBlue tank	— l	
Engine oil	8,1 l	(change interval 600 h)
Gearbox oil	45 l	(change interval 1200 h)
Hydraulic oil	44 l	(change interval 1200 h)



Rear

a	510 mm
b	480 mm
c	160 mm
d	680 mm
e	920 mm
f	1030 mm
g	790 mm
h	680 mm

Front

d	600 mm
e	850 mm
f	1115 mm
g	590 mm
h	710 mm



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ENGINE (Manufacturer's data)

Manufacturer	FPT
Model	F5 DFL 413H
Injection	Diesel direct injection
	CommonRail
Supercharging	Exhaust gas turbocharger and air-to-air intercooling
	External cooled exhaust gas recirculation
Exhaust emission treatment	DOC + DPF

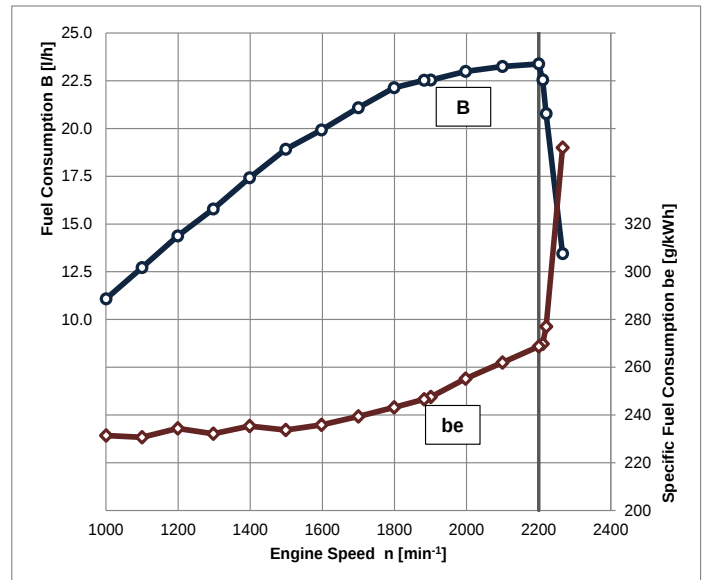
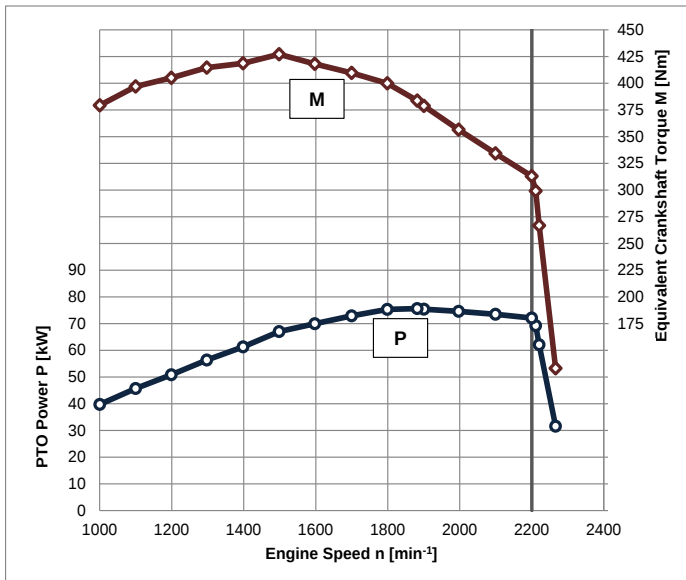
Bore/stroke	99 / 110 mm
Cylinders / capacity	4 / 3387 cm ³
Cooling	Water, viscous fan

Rated power 84 kW (114 HP) ECE R120

Rated engine speed 2200 min⁻¹

Exhaust stage IIIB

POWER TAKE-OFF MEASUREMENT



Measurement conditions 5.08.2014

- air temperature 21 °C
- relative atmospheric humidity 52 %
- 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 <i>boost</i>	2200	1170	72,1	98,0	269	23,4		
Maximum power	1880	1000	75,5	102,6	247	22,5		
Normal speed PTO	1880	1000	75,5	102,6	247	22,5		

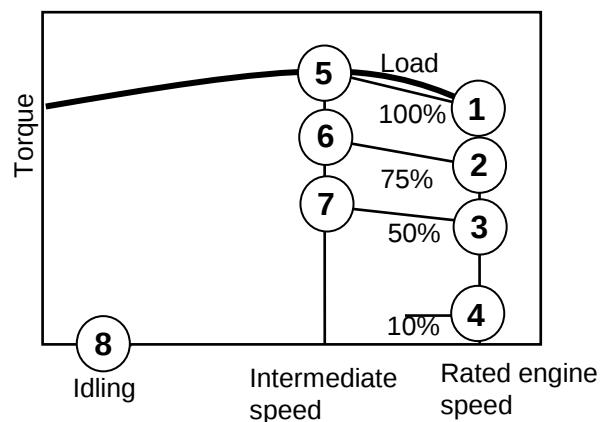
Max. torque 427 Nm at 1500 min⁻¹
 Torque increase 37 % at 32 % speed drop
 Starting torque 121 %
 Idling speed 800 min⁻¹
 Cutoff speed 2310 min⁻¹

Partial load values

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

PTO shaft Fuel
 1000 min⁻¹ 293 g/kWh, 11,3 l/h
 1000E min⁻¹ 268 g/kWh, 10,3 l/h

In characteristic diagram



Measuring point	Fuel consumption		AdBlue consumption	
	Specific [g/kWh]	Absolute [l/h]	Specific [g/kWh]	Absolute [l/h]
1	269	23,4		
2	281	18,6		
3	317	14,2		
4	732	7,2		
5	232	18,9		
6	238	14,7		
7	254	10,4		
8	-	1,4		

EMISSIONS

Exhaust gas emissions

Emissions according to ISO 8178-4, C1

- Hydrocarbons HC 0,00 g/kWh*
- Nitrogen oxides NOx 3,57 g/kWh*
- Carbon monoxide CO 0,01 g/kWh*
- Particulate number Pn 6,4x10¹⁰ #/kWh*
- Cycle consumption Fuel 279 g/kWh* (13,8 l/h)

* With reference to PTO power

Noise level

- Noise level at driver's ear 77,0 dB(A)
- Passing noise 83,5 dB(A)

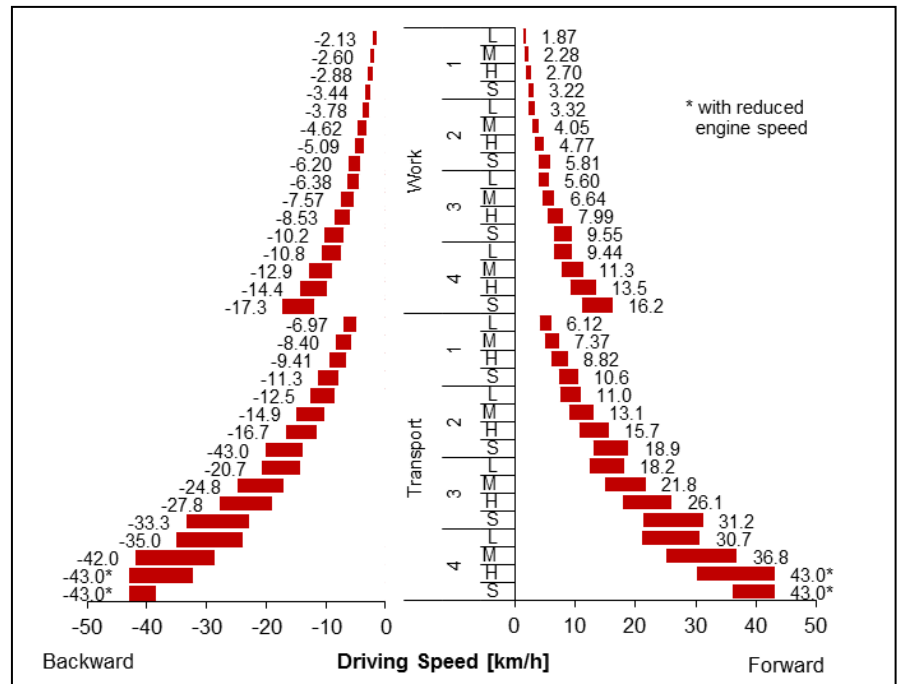
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TRANSMISSION

Travel gear

- Wet multi-disc clutch
- 32 forward and 32 reverse gears
- 2 groups
- 4 gears
- 4 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

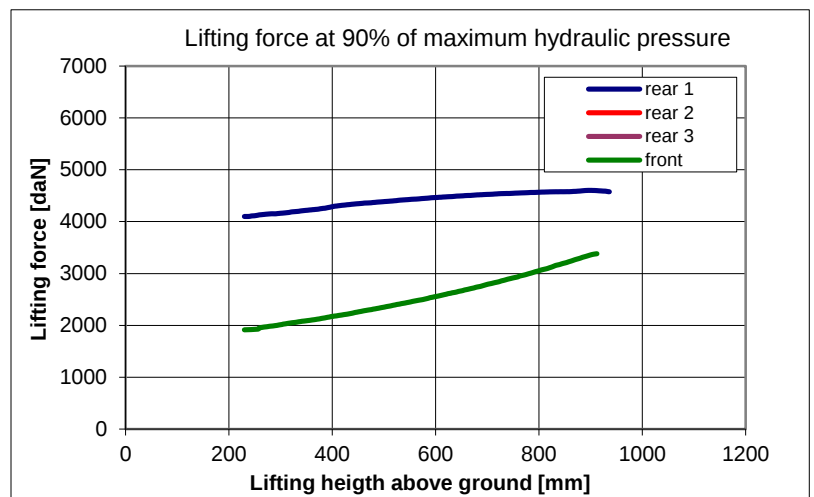
- Dry multi-plate clutch, electro-hydraulic engagement

	Rear						Front
PTO shaft	430	540	540E	1000	1000 E	Ground speed	1000
Engine speed	-	1805	1542	1880	1606	yes	1929

HYDRAULICS

Remote hydraulics

- max. oil pressure 199,9 bar
- max. flow rate 109,4 l/min
- flow rate 87,8 l/min at 169,9 bar
- max. hydraulic power 27,3 kW (99,6 l/min and 164,6 bar)
- max. flow rate through a single coupler 109,4 l/min
- max. quantity of oil taken 36 l



3-Point Hitch

Rear

3-Point Hitch, category II
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	706 mm	4095 daN	4605 daN
	Lower link, medium			
	Lower link, long			
Front		682 mm (230 mm to 912 mm)	1890 daN	3380 daN