

JCB Fastrac 3230Xtra

Tractor Test No. 1986/13

APPLICANT

Carl Heusser AG
Alte Steinhäuserstrasse 23
6330 Cham

TRACTOR

Manufacturer: JCB Landpower
Model: JCB Fastrac 3230Xtra
Approval certificate no.: —

SUSPENSION AND BRAKES

Central four-wheel drive with powershift transmission
Front and rear axle suspension
Twin caliper outboard discs on front and rear axle with ABS
Spring-loaded parking brake

DRIVER PROTECTION

Integrated safety cab

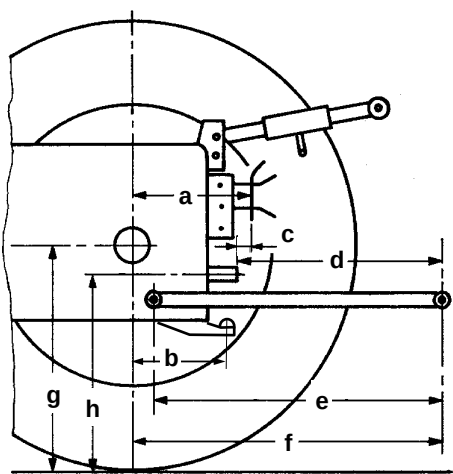


TYRES

	Track width:
front: 600/65 R28	1900 mm
rear: 600/65 R28	1930 mm

DIMENSIONS

Length:	— mm
With front mounting:	5900 mm
Front overhang from steering wheel:	2950 mm
Width:	2540 mm
Height:	3020 mm
Wheelbase:	3060 mm
Ground clearance:	420 mm
Turning diameter:	17,5 m (without four-wheel drive) 17,8 m (with four-wheel drive)



Rear

a: 500 mm
b: — mm
c: 190 mm
d: 730 mm
e: 960 mm
f: 1040 mm
g: 710 mm
h: 830 mm

Front

d: 710 mm
e: 810 mm
f: 1660 mm
g: 710 mm
h: 940 mm

TEST EQUIPMENT

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

WEIGHT

in test equipment

Front:	4740 kg	56 %
Rear:	3780 kg	
Total:	8520 kg	

Permissible front axle load:	6000 kg
Permissible rear axle load:	7500 kg
Permissible total weight:	12000 kg

Payload:	3480 kg
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Towed weight, braked:	36 845 kg
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CAPACITIES

Fuel tank	400 l	
AdBlue tank	57 l	
Engine oil	25 l	(change interval 500 h)
Gearbox oil	47 l	(change interval 1000 h)
Hydraulic oil	120 l	(change interval 2000 h)

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ENGINE (Manufacturer's data)

Manufacturer: Agco Sisu Power
 Model: 74AWI.750
 Injection: Diesel direct injection
 CommonRail
 Supercharging: Exhaust gas turbocharger and air-to-air intercooling
 Exhaust emission treatment: DOC + SCR

Bore/stroke: 108 / 134 mm
 Cylinders / capacity: 6 / 7365 cm³
 Cooling: Water, viscous fan

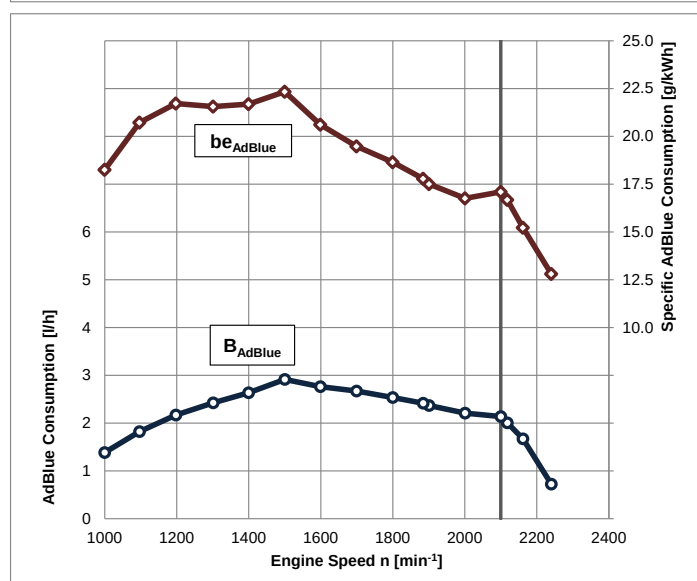
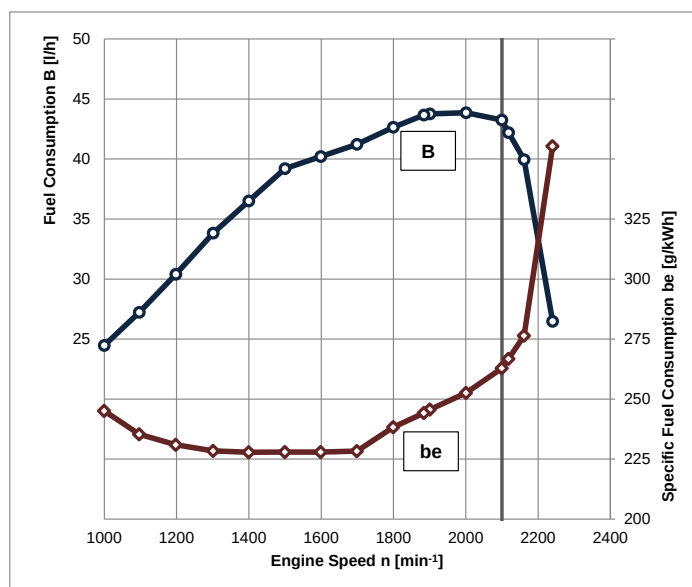
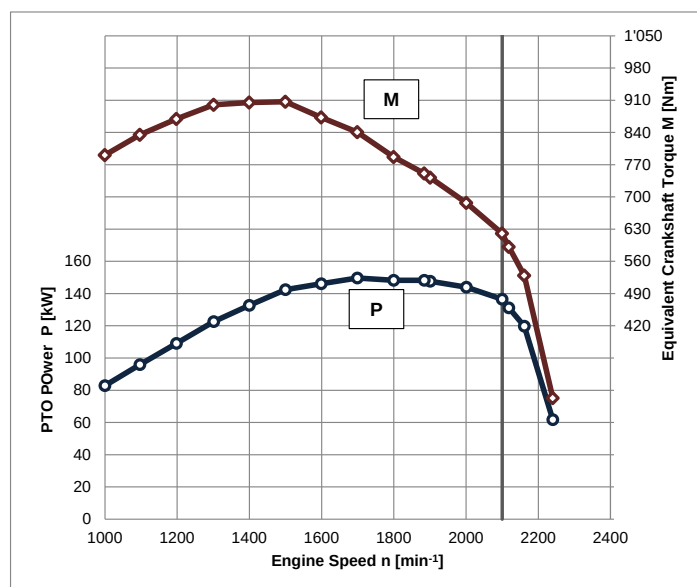
Rated power: 164 kW (223 PS) EG 97/68
 With boost: 192 kW (261 PS) EG 97/68

Rated engine speed: 2100 min⁻¹
 Exhaust stage: IIIB

Criteria for boost activation

- Transportation work:
Gear D5 + D6

POWER TAKE-OFF MEASUREMENT



Measurement conditions:

- air temperature: 21 °C
- relative atmospheric humidity: 34 %
- atmospheric pressure: 949 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	2100	1116	136,5	185,5	263	43,3	17	2,1
Maximum power	1700	904	149,1	202,8	234	42,1	19	2,7
Normal speed PTO	1882	1000	148,2	201,5	244	43,7	18	2,4

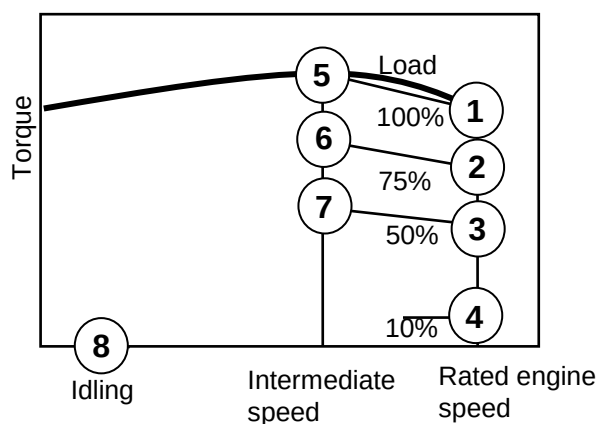
Max. torque: 907 Nm at 1500 min⁻¹
 Torque increase: 46 % at 29 % speed drop
 Starting torque: 128 %
 Idling speed: 800 min⁻¹
 Cutoff speed: 2290 min⁻¹

Partial load values

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

PTO shaft Fuel AdBlue
 1000 min⁻¹: 299 g/kWh, 22,8 l/h 20 g/kWh, 1,1 l/h
 1000E min⁻¹: — g/kWh, — l/h — g/kWh, — 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	263	43,3	17	2,1
2	278	34,5	18	1,7
3	317	26,2	16	1,0
4	765	12,7	21	0,3
5	228	39,2	22	2,9
6	232	30,0	22	2,1
7	248	21,4	20	1,3
8	-	2,2	-	0,0

EMISSIONS

Exhaust gas emissions

▪ Black smoke 0,05 SZ (BOSCH)

Emissions according to ISO 8178-4, C1

(with boost)

▪ Hydrocarbons HC 0,01 g/kWh*
 ▪ Nitrogen oxides NOx 2,20 g/kWh*
 ▪ Carbon monoxide CO 0,02 g/kWh*
 ▪ Particulate number Pn 1,8E13 #/kWh*
 ▪ Cycle consumption
 Fuel 273 g/kWh* (26,3 l/h)
 AdBlue 19 g/kWh* (1,4 l/h)

* With reference to PTO power

Noise level

▪ Noise level at driver's ear: 72,0 dB(A)
 ▪ Passing noise: 85,5 dB(A)



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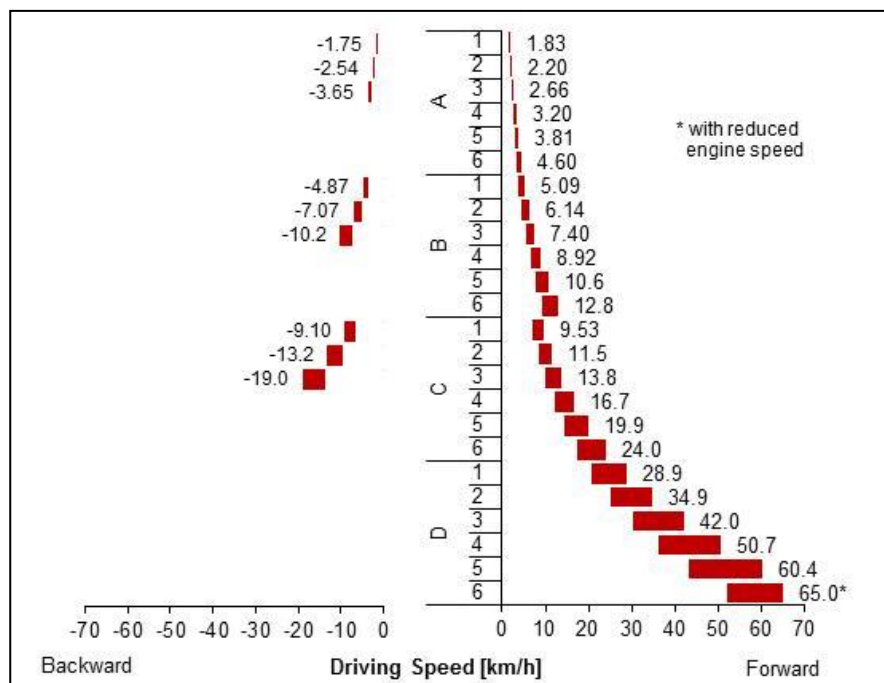
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TRANSMISSION

Travel gear

- Wet multi-disc clutch
- 24 forward and 9 reverse gears
- 4 gears (electrohydraulic shift)
- 6 powershift stages
- Powershift reverse gearbox

Driving speed at rated engine speed
(tyre radius $r = 700$ mm)



PTO transmission

Rear

- Wet multi-plate clutch, electro-hydraulic engagement

Front

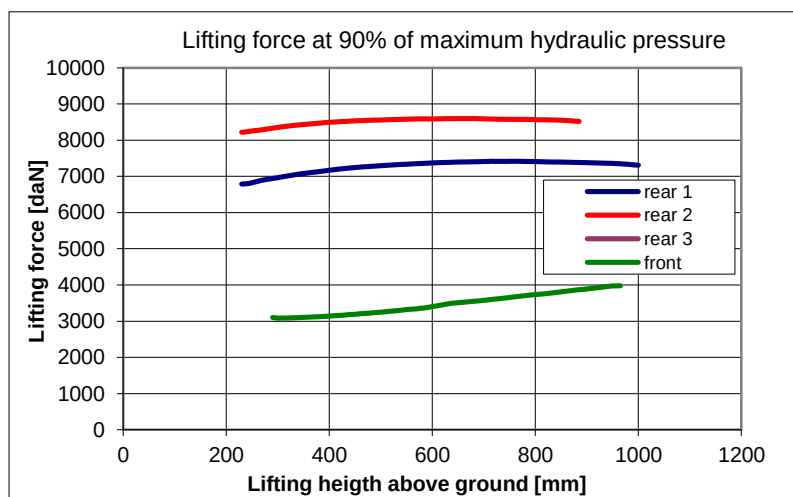
- Wet multi-plate clutch, electro-hydraulic engagement

	Rear						Front
PTO shaft	430	540	540E	1000	1000 E	Ground speed	like rear
Engine speed	-	1934	-	1882	-	-	

HYDRAULICS

Remote hydraulics

- max. oil pressure: 210,1 bar
- max. flow rate : 123,5 l/min
- flow rate: 114,6 l/min at 178,6 bar
- max. hydraulic power: 34,3 kW (110,8 l/min and 186,0 bar)
- max. flow rate through a single coupler: 105,5 l/min
- max. quantity of oil taken: 53 l



3-Point Hitch

Rear

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

Front

3-Point Hitch, category: II / III

		Lifting force at 90% pressure		
Measurement		Lifting movement	Continuous	Maximum
Rear	Lower link, short	770 mm	6785 daN	7420 daN
	Lower link, medium	655 mm	8215 daN	8600 daN
	Lower link, long			
Front		675 mm (290 mm to 965 mm)	3080 daN	3980 daN

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



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