

Kubota M135GX-S

Tractor Test No. 1998/13

APPLICANT

Ad. Bachmann AG
Wilerstrasse 16
9554 Tägerschen

TRACTOR

Manufacturer: Kubota
Model: M135GX-S
Approval certificate no.: 4KA1 25

SUSPENSION AND BRAKES

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

DRIVER PROTECTION

Integrated safety cab

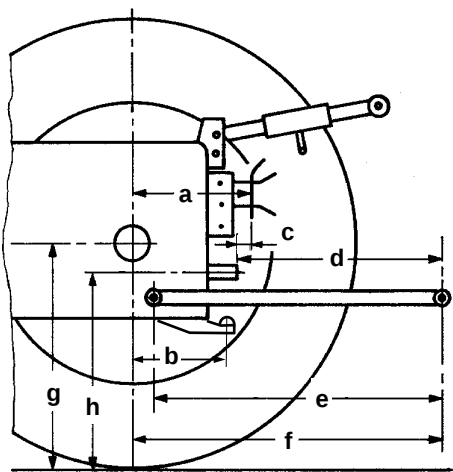


TYRES

	Track width:
front: 480/65 R24	1750 mm
rear: 600/65 R38	1800 mm

DIMENSIONS

Length:	4700 mm
With front mounting:	— mm
Front overhang from steering wheel:	— mm
Width:	2420 mm
Height:	2880 mm
Wheelbase:	2685 mm
Ground clearance:	490 mm
Turning diameter:	10,9 m (without four-wheel drive) 9,8 m (with four-wheel drive)



Rear

a: 580 mm
b: — mm
c: 185 mm
d: 620 mm
e: 905 mm
f: 1015 mm
g: 850 mm
h: 820 mm

Front

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

TEST EQUIPMENT

- front loader mounting bracket
- air-conditioning compressor

WEIGHT

in test equipment

Front:	2190 kg	44 %
Rear:	2780 kg	
Total:	4970 kg	

Permissible front axle load:	3580 kg
Permissible rear axle load:	6280 kg
Permissible total weight:	9200 kg

Payload:	4230 kg
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Towed weight, braked:	32 000 kg
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CAPACITIES

Fuel tank	190 l	
AdBlue tank	— l	
Engine oil	14,6 l	(change interval 400 h)
Gearbox and Hydraulic oil	65 l	(change interval 1000 h)

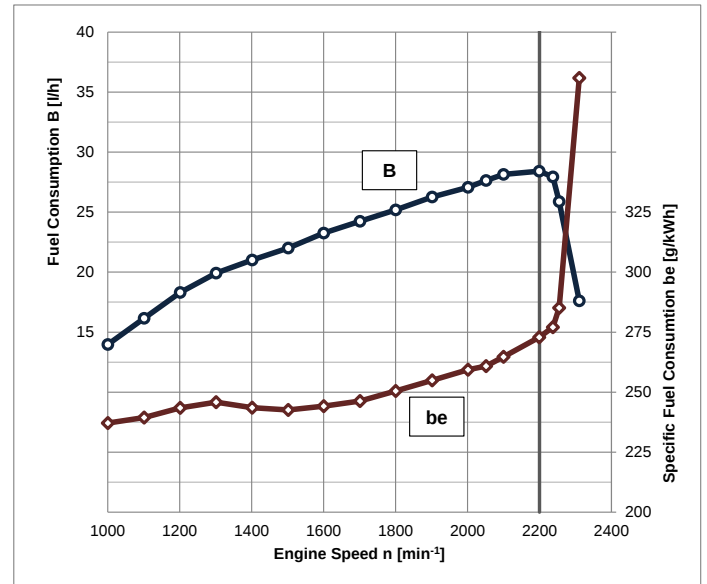
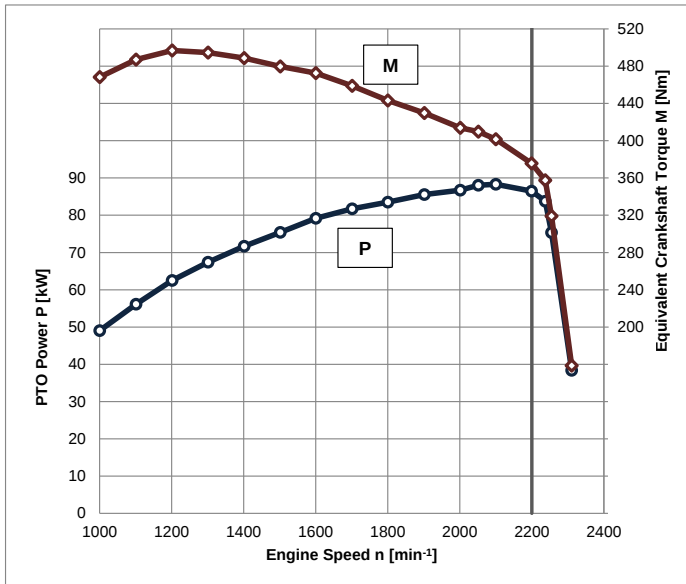
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ENGINE (Manufacturer's data)

Manufacturer:	Kubota
Model:	V6108-CR-TI-EU2
Injection:	Diesel direct injection CommonRail
Supercharging:	Exhaust gas turbocharger and air-to-air intercooling External cooled exhaust gas recirculation
Exhaust emission treatment:	DOC + closed DPF
Bore/stroke:	118 / 140 mm
Cylinders / capacity:	4 / 6124 cm ³
Cooling:	Water, viscous fan
Rated power:	103 kW (140 PS) EG 97/68

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

POWER TAKE-OFF MEASUREMENT



Measurement conditions:

• air temperature	21 °C
• relative atmospheric humidity	55 %
• atmospheric pressure	960 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	2200	1073	86,5	117,6	273	28,4		
Maximum power	2100	1024	88,5	120,3	264	28,2		
Normal speed PTO	2050	1000	88,0	119,7	261	27,6		

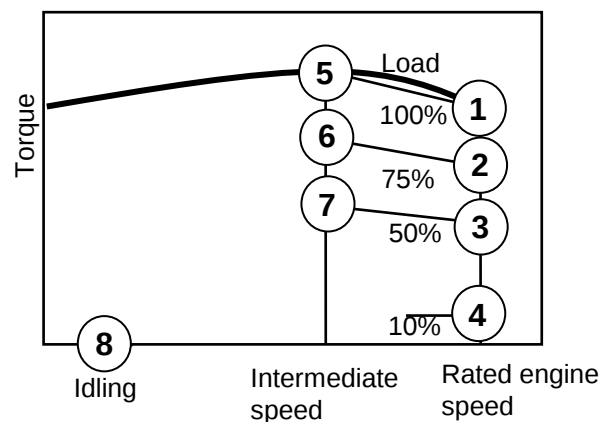
Max. torque: 497 Nm at 1200 min⁻¹
 Torque increase: 32 % at 45 % speed drop
 Starting torque: 125 %
 Idling speed: 826 min⁻¹
 Cutoff speed: 2372 min⁻¹

Partial load values

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

PTO shaft Fuel
 1000 min⁻¹: 345 g/kWh, 15,4 l/h

In characteristic diagram



Measuring point	Fuel consumption		AdBlue consumption	
	Specific [g/kWh]	Absolute [l/h]	Specific [g/kWh]	Absolute [l/h]
1	273	28,4		
2	300	23,4		
3	349	18,2		
4	905	9,6		
5	246	20,2		
6	253	15,5		
7	271	11,2		
8	-	1,7		

EMISSIONS

Exhaust gas emissions

- Black smoke 0,10 SZ (BOSCH)

Emissions according to ISO 8178-4, C1

- Hydrocarbons HC 0,01 g/kWh*
- Nitrogen oxides NOx 3,99 g/kWh*
- Carbon monoxide CO 0,01 g/kWh*
- Particulate number Pn 9,1E11 #/kWh*
- Cycle consumption Fuel 300 g/kWh* (16,4 l/h)

Noise level

- Noise level at driver's ear: 75,5 dB(A)
- Passing noise: 85,5 dB(A)

* With reference to PTO power



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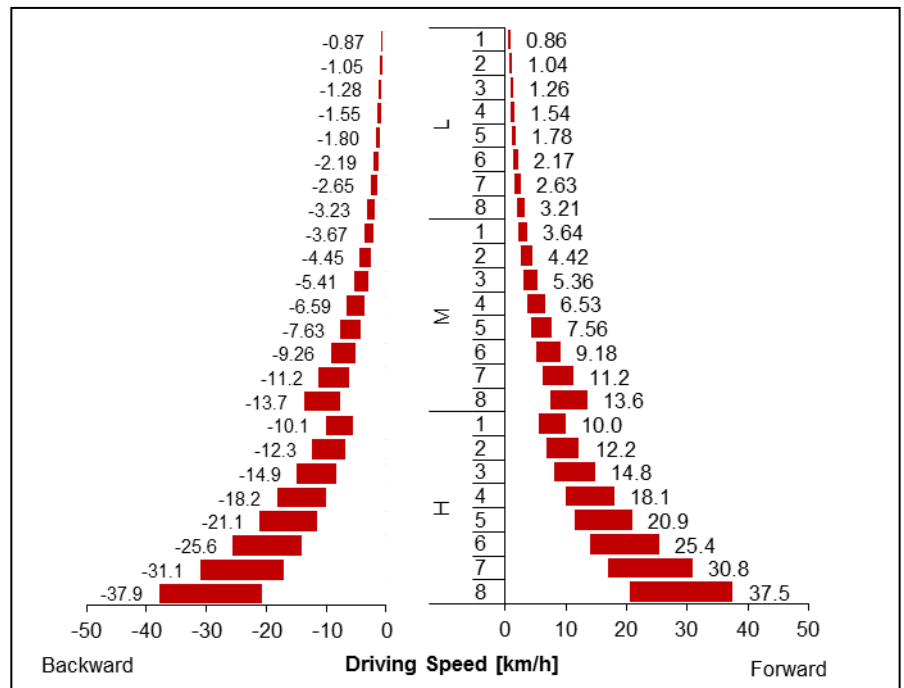
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TRANSMISSION

Travel gear

- 24 forward and 24 reverse gears
- Wet multi-disc clutch
- 3 gears
- 8 powershift reverse gearbox
- 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

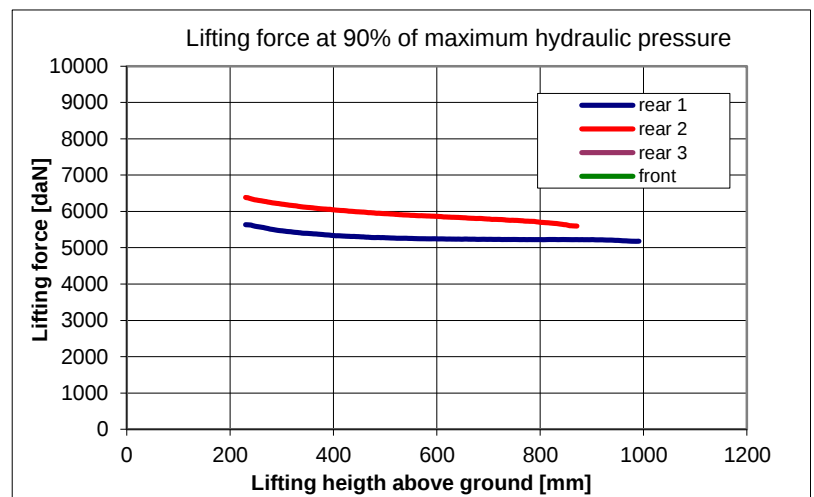
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	Rear						Front
PTO shaft	430	540	540E	1000	1000 E	Ground speed	1000
Engine speed	-	1994	-	2050	-	-	-

HYDRAULICS

Remote hydraulics

- max. oil pressure: 201,1 bar
- max. flow rate : 75,0 l/min
- flow rate: 45,7 l/min at 170,9 bar
- max. hydraulic power: 16,5 kW (65,5 l/min and 151,3 bar)
- max. flow rate through a single coupler: 75,0 l/min
- max. quantity of oil taken: 30 l



3-Point Hitch

Rear

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

Front

- —

		Lifting force at 90% pressure		
Measurement		Lifting movement	Continuous	Maximum
Rear	Lower link, short	761 mm	5175 daN	5645 daN
	Lower link, medium	641 mm	5595 daN	6390 daN
	Lower link, long			
Front		-	-	-

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



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