

Lindner Geotrac 134ep

Tractor Test No. 1990/13

APPLICANT

Sebastian Müller AG
Bohler
6221 Rickenbach

TRACTOR

Manufacturer: Lindner
Model: Lindner Geotrac 134ep
Approval certificate no.: –

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 with mechanical suspension

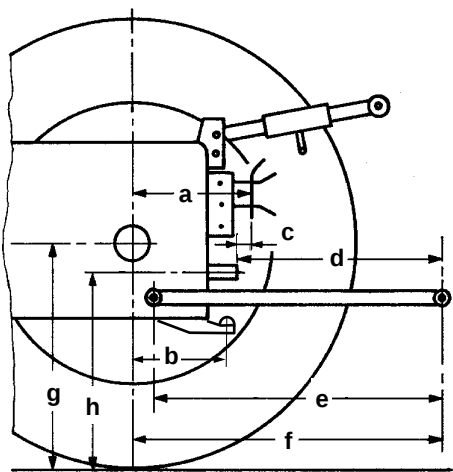


TYRES

	Track width:
front: 540/65 R24	1810 mm
rear: 600/65 R38	1800 mm

DIMENSIONS

Length:	— mm
With front mounting:	4960 mm
Front overhang from steering wheel:	2910 mm
Width:	2460 mm
Height:	2740 mm
Wheelbase:	2500 mm
Ground clearance:	410 mm
Turning diameter:	10,4 m (without four-wheel drive) 11,3 m (with four-wheel drive)



Rear

a: 690 mm
b: — mm
c: 160 mm
d: 580 mm
e: 1020 mm
f: 1110 mm
g: 820 mm
h: 770 mm

Front

d: 670 mm
e: 940 mm
f: 1120 mm
g: 630 mm
h: 810 mm

TEST EQUIPMENT

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

WEIGHT

in test equipment

Front:	2470 kg	43 %
Rear:	3210 kg	
Total:	5680 kg	

Permissible front axle load:	3800 kg
Permissible rear axle load:	6600 kg
Permissible total weight:	9000 kg

Payload:	3320 kg
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Towed weight, braked:	31 000 kg
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CAPACITIES

Fuel tank	145 l	
AdBlue tank	— l	
Engine oil	9 l	(change interval 500 h)
Gearbox oil	52 l	(change interval 1000 h)
Hydraulic oil	72 l	(change interval 1000 h)

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ENGINE (Manufacturer's data)

Manufacturer:	Perkins
Model:	1204E-E44TA
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:	105 / 127 mm
Cylinders / capacity:	4 / 4400 cm ³
Cooling:	Water, viscous fan

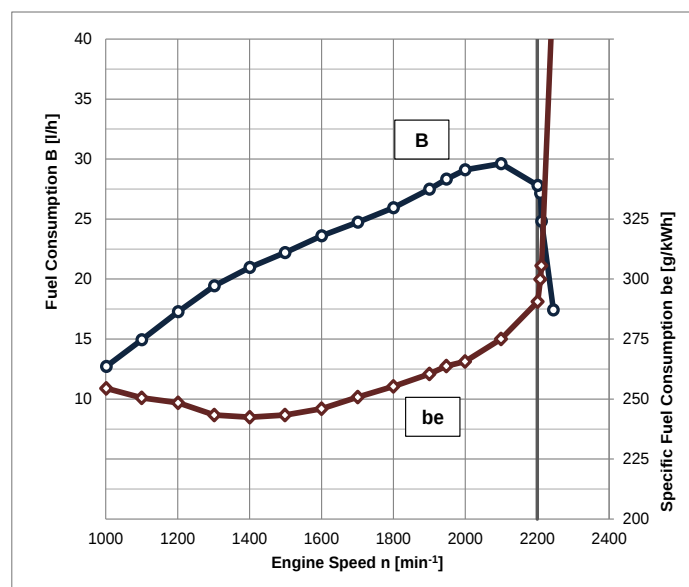
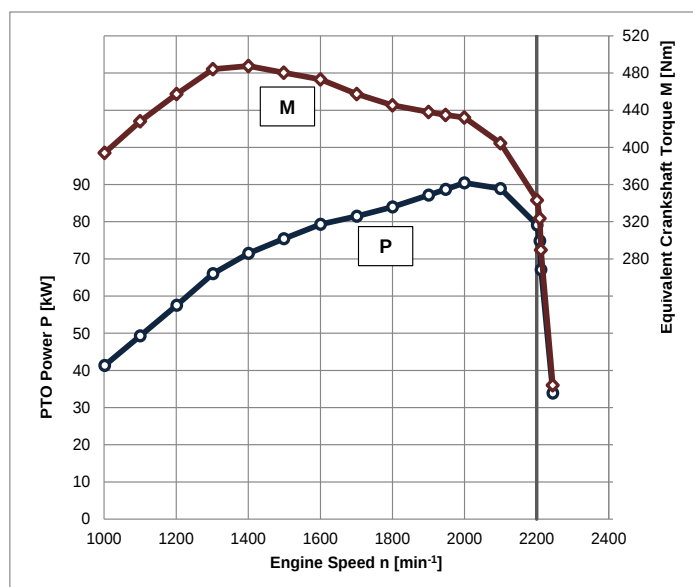
Rated power:	98 kW (133 PS)	ISO 14369
With boost:	104 kW (141 PS)	EG 97/68

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

Criteria for boost activation

- Transportation work:
Speed in excess of 15 km/h
- PTO work:
always activated

POWER TAKE-OFF MEASUREMENT



Measurement conditions:

- air temperature 20 °C
- relative atmospheric humidity 52 %
- atmospheric pressure 957 mbar



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Full load test values

(with boost)

	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	1131	79,1	107,5	291	27,8		
Maximum power	2000	1027	90,6	123,1	265	29,1		
Normal speed PTO	1946	1000	88,7	120,6	264	28,3		

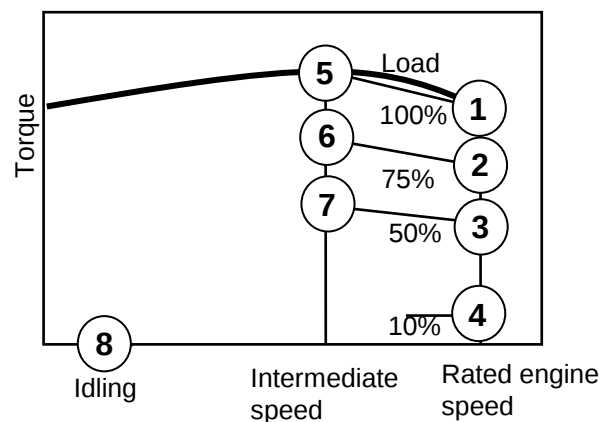
Max. torque: 488 Nm at 1400 min⁻¹
 Torque increase: 42 % at 36 % speed drop
 Starting torque: 115 %
 Idling speed: 850 min⁻¹
 Cutoff speed: 2276 min⁻¹

Partial load values

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

PTO shaft Fuel
 1000 min⁻¹: 351 g/kWh, 15,9 l/h
 1000E min⁻¹: 296 g/kWh, 13,4 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	291	27,8		
2	319	22,8		
3	382	18,3		
4	1139	11,0		
5	242	21,0		
6	259	16,8		
7	287	12,4		
8	-	1,8		

EMISSIONS

Exhaust gas emissions

▪ Black smoke 0,10 SZ (BOSCH)

Emissions according to ISO 8178-4, C1

(with boost)

▪ Hydrocarbons HC 0,01 g/kWh*
 ▪ Nitrogen oxides NOx 3,62 g/kWh*
 ▪ Carbon monoxide CO 0,02 g/kWh*
 ▪ Particulate number Pn 3,9E11 #/kWh*
 ▪ Cycle consumption Fuel 317 g/kWh* (16,7 l/h)

Noise level

▪ Noise level at driver's ear: 74,5 dB(A)
 ▪ Passing noise: 83,5 dB(A)

* With reference to PTO power



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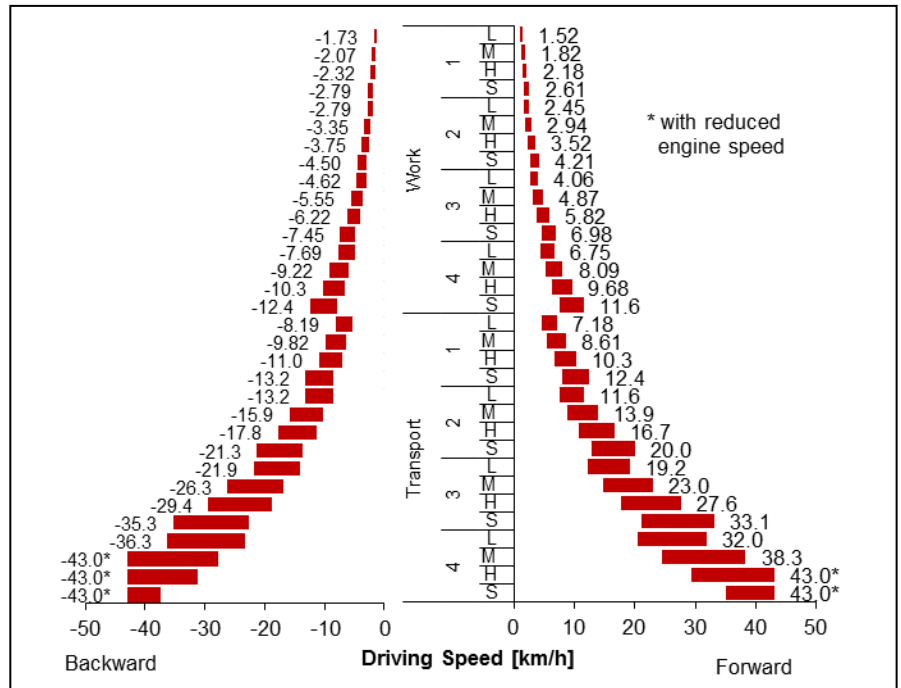
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TRANSMISSION

Travel gear

- 32 forward and 32 reverse gears
- Wet multi-disc clutch
- 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

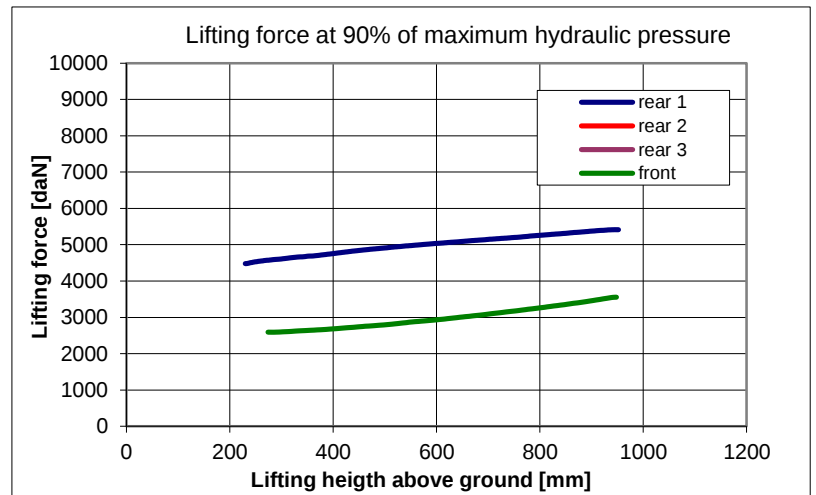
- Wet multi-plate clutch, electro-hydraulic engagement

	Rear						Front
PTO shaft	430	540	540E	1000	1000 E	Ground speed	1000
Engine speed	-	1996	1543	1946	1512	-	1930

HYDRAULICS

Remote hydraulics

- max. oil pressure: 206,5 bar
- max. flow rate : 124,5 l/min
- flow rate: 119,8 l/min at 175,5 bar
- max. hydraulic power: 37,5 kW (116,5 l/min and 193,4 bar)
- max. flow rate through a single coupler: 112,8 l/min
- max. quantity of oil taken: 35 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	722 mm	4480 daN	5415 daN
	Lower link, medium			
	Lower link, long			
Front	674 mm (274 mm to 948 mm)	2590 daN	3560 daN	

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



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