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)

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
Towed weight, braked: 31 000 kg

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)
**Lindner Geotrac 134ep**

**ENGINE** (Manufacturer’s data)
- **Manufacturer:** Perkins
- **Model:** 1204E-E44TA
- **Injection:** Diesel direct injection
- **CommonRail**
- **Supercharging:** Exhaust gas turbocharger and air-to-air intercooling
- **Exhaust emission treatment:** DOC + closed DPF
- **Bore/stroke:** 105 / 127 mm
- **Cylinders / capacity:** 4 / 4400 cm³
- **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

![Graph of PTO Power vs. Engine Speed](image-url)
![Graph of Specific Fuel Consumption vs. Engine Speed](image-url)

---

**Engine Diagram**

- **M:** Equivalent Crankshaft Torque [Nm]
- **P:** PTO Power [kW]
- **B:** Fuel Consumption [l/h]
- **be:** Specific Fuel Consumption [g/kWh]
Lindner Geotrac 134ep

**Full load test values**
(with boost)

<table>
<thead>
<tr>
<th>Speed [min⁻¹]</th>
<th>Power</th>
<th>Fuel consumption</th>
<th>AdBlue consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine</td>
<td>PTO</td>
<td>kW</td>
<td>HP</td>
</tr>
<tr>
<td>Rated power</td>
<td>2200</td>
<td>1131</td>
<td>79,1</td>
</tr>
<tr>
<td>Maximum power</td>
<td>2000</td>
<td>1027</td>
<td>90,6</td>
</tr>
<tr>
<td>Normal speed</td>
<td>1946</td>
<td>1000</td>
<td>88,7</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Load</th>
<th>Fuel consumption</th>
<th>AdBlue consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Specific [g/kWh]</td>
<td>Absolute [l/h]</td>
</tr>
<tr>
<td>1</td>
<td>291</td>
<td>27,8</td>
</tr>
<tr>
<td>2</td>
<td>319</td>
<td>22,8</td>
</tr>
<tr>
<td>3</td>
<td>382</td>
<td>18,3</td>
</tr>
<tr>
<td>4</td>
<td>1139</td>
<td>11,0</td>
</tr>
<tr>
<td>5</td>
<td>242</td>
<td>21,0</td>
</tr>
<tr>
<td>6</td>
<td>259</td>
<td>16,8</td>
</tr>
<tr>
<td>7</td>
<td>287</td>
<td>12,4</td>
</tr>
<tr>
<td>8</td>
<td>-</td>
<td>1,8</td>
</tr>
</tbody>
</table>

**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
Lindner Geotrac 134ep

**TRANSMISSION**

**Travel gear**
- 32 forward and 32 reverse gears
- Wet multi-disc clutch
- 2 groups
- 4 gears
- 4 powershift stages
- Powershift reverse gearbox

**PTO transmission**

**Rear**
- Wet multi-plate clutch, electro-hydraulic engagement

**Front**
- Wet multi-plate clutch, electro-hydraulic engagement

**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: (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

Explanatory notes on tractor test at:
[www.traktorentest.ch](http://www.traktorentest.ch)