



**BUNDESVERSUCHS- UND PRÜFUNGSANSTALT
für landwirtschaftliche Maschinen und Geräte,
Wieselburg**

Dieseltractor

Trade name:

STEYR 8070

Manufacturers signature:

STEYR 337.30



Date of approval: 1981 05 14

Date of test: 1979 08 27

**This report has been approved by the O.E.C.D. Coordinating Centre
(C.N.E.E.M.A., France) as being in accordance with the O.E.C.D. Test Code**

TABLE OF CONTENTS

| | Page |
|--|------|
| SPECIFICATION OF TRACTOR | 2 |
| CONDITIONS DURING TEST | 12 |
| | |
| COMPULSORY TESTS | |
| Main power take-off performance - 540 rev/min | 14 |
| Drawbar performance | 18 |
| Turning space and turning circle | 20 |
| Location of centre of gravity | 20 |
| Braking performance | 20 |
| Ambient noise | 21 |
| Noise at the driver's ear level | 21 |
| Power lift and hydraulic pump performance | 22 |
| Linkage geometry | 24 |
| Performance of power lift | 25 |
| | |
| OPTIONAL TEST | |
| Main power take-off performance - 1000 rev/min | 26 |
| Engine performance | 30 |
| | |
| ANNEX | |
| Reduction of power data to standard conditions | 34 |

Tractor manufacturer: STEYR-DAIMLER-PUCH AG., Steyr, Austria
STEYR-HELLAS ABE., Sindos, Greece.

Submitted for test by: Manufacturer

Selected by: Manufacturer by agreement with BVPA-Wieselburg

Place of running in: Steyr, Austria

Duration of running in: 120 hours

SPECIFICATION OF TRACTOR

Tractor:

Make: STEYR-DAIMLER-PUCH AG.

Model: Diesel-Tractor STEYR 337.30
Trade name: STEYR 8070

Type: Wheel tractor, rear wheel driven, unit construction

Serial No.: 337.30 - 01001

Engine:

Make: Own make

Model: WD 411.42

Type: 4 stroke diesel engine with direct injection

Serial No.: 411.42 - 1002

Cylinders: 4, vertical in line
Bore/stroke: 100/110 mm
Capacity: 3456 cm³
Compression ratio: 16,2
Wet liners

Valves: Overhead valves

Fuel system: Capacity of fuel tank: appr. 96 l
Optional: small tank appr. 64 l
Fuel feed by gravity

BOSCH fuel filter
Dual filter with water trap and changeable elements,
model 0450 134002
Fuel precleaner FJSJ 1/1Z

BOSCH distributor injection pump
Prototype model: VA 4/9 H 1200 CRV 3671
Serial model: VA 4/9 H 1200 CR 144-2
Manufacturers production setting:
42⁺⁰/₋₂ mm³/stroke at 2400 rev/min and full load
Injection timing: 24⁺¹/₋₂ before TDC at 1 mm pump stroke

- Fuel system:** Injectors:
(cont.) BOSCH
Multi hole Injection nozzles DLLA 150 S 798 or
FRIEDMANN & MAIER
Multi hole Injection nozzles D 1 LMK 150/54
Injection pressure: $21,6^{+0,6}$ MPa (216^{+6} bar)
- Governor:** BOSCH variable speed governor
Hydraulically acting, incorporated in injection pump
Range of speed: 600 to 2580 rev/min
Rated speed: 2400 rev/min
- Air cleaner:** MANN & HUMMEL or PUROLATOR/KNECHT
Main-cleaner: Dry type with changeable element and electrical indicator
Model: MANN & HUMMEL 45.114.65.414;
optional: additional safety element CF 600
PUROLATOR LP 045/1;
optional: additional safety element AF 3098 or
KNECHT SE 045
Pre-cleaner: Cyclonic type, transparent dust container
Model: MANN & HUMMEL 48.030.67.900
- Exhaust
silencer:** EBERSPÄCHER
Reflexion type, at left side of the engine, mouth upwards
2473 mm, 150 mm left side of median plane
Model: T 16.47.476.10.0.00 with protective cab 110.01
T 16.47.476.11.0.00 with protective cab 110.02
- Lubrication:** Forced lubrication with EATON pump, strainer in sump,
paper filter in full flow
Oil capacity: appr. 9,6 l
Changing interval: 200 hours; paper filter: 400 hours
Recommended oil viscosity: SAE 20 W/40 HD,
SAE 10 W/30 HD in cold environment
(MIL-L-2104 B, MIL-L-46152)
- Cooling system:** Double circuit water cooling with centrifugal pump, pump
and 4 blade fan (dia: 420 mm) belt driven
Tubular radiator, longtime filling with frostprotection down
to -20°C
Thermostat control, cooling water thermometer and sight
glass for level indication
Coolant capacity: appr. 15,5 l (17 l with cab heating)
Overpressure: max. 50 kPa (0,5 bar)
Joining for warm water heating
- Starting system:** Electrically
BOSCH solenoid engaged starter, model: 0 001 367 011 JF
12 V, 3 kW
Cold starting aid: BERU or BOSCH
2 glowplugs in intake pipe, BERU model 184 G or
BOSCH model A 250 00. 1088

**Electrical
system:**

Voltage: 12 V, negative earth

Generator: BOSCH, three phase type

model G 1 - 14 V 28 A 22 - 392 W, 0 120 339 526
14 V, 28 A, 392 W

Batteries: lead acid type, 1 with 135 Ah capacity at 20
hours rating

Transmission:

Clutches:

Clutch: FICHTEL & SACHS

Dual plate dry clutch, model DUT 280 - 280/280, both
plates 280 mm dia, Independent activated or LUK same
dimension .

Main clutch: 280 mm dia, pedal operated

P. t. o. -clutch: 280 mm dia, hand lever operated

Gearbox:

Own make, mechanically acting, model 337

Basis model: (optional)

reversing gear (FORWARD-REVERSE) combined with
4 speed change gear and reduction gear (ROAD-FIELD)

Total: 8 forward and 8 reverse speeds

Normal model: (as tested)

2 forward and 1 reverse group gear (FORWARD FAST,
FORWARD NORMAL, REVERSE) combined with 4 speed
change gear and reduction gear (ROAD - FIELD)

Total: 16 forward and 8 reverse speeds

Crawler gear model: (optional)

Basis model with crawler gear reduction

Reduction ratio: 3, 398

Total: 16 forward and 16 reverse speeds

Optional: synchronised helical 4 speed change gear

Optional: top speed 25 km/h or 30 km/h (as tested)

**Rear axle and
final drive:**

Own make, model 337

Central axle; pinion and bevel gear, lockable bevel gear
differential, acting by planetary gears on rear wheels

Differential lock: mechanically acting, foot lever operated,
lockable, self-disengaging.

Total ratios and speeds

| Group | Gear No. | Number of engine revolutions for one revolution of driving wheel | | Nominal travelling speed for rated speed of engine km/h *) | |
|-------------------|----------|--|---------|--|--------|
| | | field L | road S | field L | road S |
| forward normal VN | 1 | 402, 16 | 120, 34 | 1, 55 | 5, 19 |
| | 2 | 209, 35 | 62, 64 | 2, 98 | 9, 97 |
| | 3 | 140, 82 | 42, 14 | 4, 43 | 14, 82 |
| | 4 | 85, 31 | 25, 53 | 7, 32 | 24, 45 |
| forward fast VS | 1 | 327, 03 | 97, 86 | 1, 91 | 6, 38 |
| | 2 | 170, 24 | 50, 94 | 3, 67 | 12, 26 |
| | 3 | 114, 52 | 34, 27 | 5, 45 | 18, 22 |
| | 4 | 69, 37 | 20, 76 | 9, 00 | 30, 08 |
| reverse R | 1 | 327, 03 | 97, 86 | 1, 91 | 6, 38 |
| | 2 | 170, 24 | 50, 94 | 3, 67 | 12, 26 |
| | 3 | 114, 52 | 34, 27 | 5, 45 | 18, 22 |
| | 4 | 69, 37 | 20, 76 | 9, 00 | 30, 08 |

*) Calculated with index radius of 690 mm and test tyre equipment 12, 4-36 AS

Oil capacity:

Gearbox and rear axle: appr. 24, 5 l
 Final drives: appr. 2, 7 l for each planetary gear
 Changing interval: uniformly 1000 hours or one year
 Recommended oil: SAE 90, MIL-L-2105

Power take off:

At rear of tractor, in median plane, 395 mm behind rear axle, 580 mm above ground (690 mm tyre index radius)
 Dimension: ISO R 500, Type 1 (35 mm, 6 splines)

Proportional to engine speed (independent) p. t. o. :

P. t. o. shaft driven by p. t. o. clutch and speed selector
 Speeds:

540/ 634 rev/min at 2044/2400 rev/min engine speed
 1000/1127 rev/min at 2130/2400 rev/min engine speed
 Engine speed resp. p. t. o. speed indication by "Traktor-
 meter"

Direction of rotation: clockwise viewed from driving end

Proportional to ground speed p. t. o. :

Only engageable when reduction gear is on O (NEUTRAL - stationary) or L (FIELD) position. P. t. o. shaft driven by main clutch, group gear, 4 speed change gear and reduction gear (only in position O or L (FIELD)).

Power take off:
(cont.)

Driving mode (reduction gear in L position):
Travelling distance for 1 revolution of p.t.o.:
0,111 m with 690 mm tyre index radius
Number of p.t.o. revolutions for 1 revolution of driving
wheel: 38,95

Stationary mode (reduction gear on O position, tractor not driving):

Speeds at 2400 rev/min rated engine speed (rev/min):
30 km/h model as tested

| Group gear: | VN | VS | R |
|-----------------------|-------------------------|-----------|---------------|
| Gear No. : 1 | 286 | 232 | 286 |
| 2 | 549 | 447 | 549 |
| 3 | 816 | 664 | 816 |
| 4 | 1348 | 1096 | 1348 |
| Direction of rotation | clockwise | clockwise | anticlockwise |
| | viewed from driving end | | |

25 km/h model (not tested)

| Group gear: | VN | VS | R |
|-----------------------|-------------------------|-----------|---------------|
| Gear No. : 1 | 193 | 232 | 223 |
| 2 | 370 | 447 | 429 |
| 3 | 550 | 664 | 638 |
| 4 | 908 | 1096 | 1053 |
| Direction of rotation | clockwise | clockwise | anticlockwise |
| | viewed from driving end | | |

Middle p.t.o.:

Optional, not on tested tractor
Forward direction, on the left side of the gearbox,
186,5 mm left hand of median plane of tractor,
580 mm above ground, 651 mm before rear axle
Dimension: ISO R 500, Type 1 (35 mm, 6 splines)
No power restriction
Driven by p.t.o. clutch
Speed: 1000/1183 rev/min at 2029/2400 rev/min engine
speed
Direction of rotation: anticlockwise viewed from the driving
end

Front p.t.o.:

Optional, not on tested tractor
Forward direction, on the left side of the tractor, 310 mm
left hand of median plane, 518 mm above ground, 491 mm
before front axle

Front p.t.o.:
(cont.)

Driven by middle p.t.o. and propellershaft with intermediate bearing

No power restriction

Same speeds and direction of rotation of middle p.t.o..

Belt pulley:

Optional, not on tested tractor

At rear of tractor, perpendicular transmission on rear p.t.o., all speeds of rear p.t.o. engageable

Dimensions: 250 mm dia, 160 mm width

Number of pulley revolutions for 1 revolution of p.t.o.:
2, 23

Power lift:

In the rear:

Own make, open center type

Draught control with two stage pull adjustment and upper

link sensing, position control, floating position

"STEYR SIMPLEMENTIK" standard linkage, categorie I/II,

double hole lift arms, in accordance to ISO 730

BOSCH gear type pump, directly driven by engine

BOSCH control unit

Own oil supply, capacity: 14 l (15 l with oil tappings)

Recommended oil: SAE 20 W, MIL-L-2104 B

Working cylinder: single acting type,

bore/stroke: 85/152 mm

Optional (not on tested tractor):

WALTERSCHEID linkage quick coupler, category II

Oil tappings: up to 3 oil circuits with BOSCH control units
for single or double acting cylinders

Capacity of tappings: 6 l

Optional (not on tested tractor):

Increased capacity of oil tappings up to 17 l with 11 l
supplementary tank

In the front:

Optional (not on tested tractor)

Three point linkage, category II, open system, hydraulic
power lift, disintegrated construction

Oil supply from own control unit and common oil supply
with power lift in the rear

Single acting cylinder, bore/stroke: 60/250 mm

Holed drawbar:

Fitted in the clevis of the lower links of the threepoint
linkage, category I or II

| Dimensions of the holed drawbar | category I | category II |
|---------------------------------|------------|-------------|
| Number of holes | 5 | 7 |
| Holes diameter mm | 33 | 33 |
| Distance between holes mm | 130 | 115 |

Holed drawbar:
(cont.)

| Height above ground*) | | Min. lift rod length (basis adjustment) | Max. lift rod length |
|-----------------------|--------|--|----------------------|
| Lift arm | 200 mm | from 460 to 940 mm | from 240 to 775 mm |
| length: | 240 mm | from 350 to 915 mm | from 125 to 750 mm |

*) Calculated with tyre index radius of 690 mm

Method of changing: by power lift, lift rod and lift arm length

Distance to rear axle: 970 mm (lower links horizontally)

Distance relative to p. t. o. : 574 mm

Pull attachment:

Trailer hitch:

Own make

Fork type, model 273 Q

Height above ground: 412/440/745/773 mm

Distance from rear axle: 447 mm

Position relative to p. t. o. : rearwards 52 mm

Diameter of coupling pin: 30,5 mm

Maximum vertical load: 15 kN

Optional (not on tested tractor):

ROCKINGER automatic coupler model 248

Fork type, height adjustable in 2 positions

Height above ground: 753/765 mm

Distance from rear axle: 494 mm

Position relative to p. t. o. : rearwards 99 mm

Diameter of coupling pin: 30 mm

Maximum vertical load: 15 kN

or ROCKINGER model 273 J

Fork type

Height above ground: 636/677/719/760 mm

Distance from rear axle: 534 mm

Position relative to p. t. o. : rearwards 139 mm

Diameter of coupling pin: 30,5 mm

Maximum vertical load: 15 kN

or ROCKINGER automatic coupler, model 279

Fork type

Height above ground: 631/682/714/765 mm

Distance from rear axle: 542 mm

Position relative to p. t. o. : rearwards 147 mm

Diameter of coupling pin: 30 mm

Maximum vertical load: 15 kN

Trailer hitch: or own make
(cont.) Forke type (Italian equipment)
Height above ground: 416/749/769 mm
Distance from rear axle: 407 mm
Position relative to p.t.o.: rearwards 12 mm
Diameter of coupling pin: 28 mm
Maximum vertical load: 15 kN

Towing hitch: Fork type
Height above ground: 632 mm
Distance from front axle: frontwards 495 mm
Diameter of coupling pin: 31 mm

Steering:

ZF-SCHWÄBISCH GMÜND
Hydrostatic steering, model ZF 8451
or DANFOSS equivalent model OS PC 80 OR
Own oil circuit with filter in the oil case, gear pump directly driven by engine
Changing interval of oil and filter: 1000 hours
Capacity of oil case: 1,75 l
Delivery rate: 34,6 l/min
Working pressure: 10,0 MPa (100 bar)
Operated by steering wheel, acting on front wheels

Brakes:

Service brake: Own make
Hydraulically acting inner brake (Simplex), 229 mm dia, 60 mm width, acting in differential shafts, pedal operated

Parking brake: Mechanically acting on separate inner brake
229 mm dia, 30 mm width, acting on differential shafts, activated by hand lever with ratchet

Steering assistance brake: Operated by divided pedal of service brake

Optional brake equipment: (not on tested tractor)
Trailer braking valve: high pressure air system, one or combination one and two line system, air-compressor V-belt driven
Storage pressure: $1,8^{+0,2}_{-0,2}$ MPa (18^{+2}_{-2} bar)
Working pressure: 0,72 MPa
Storage capacity: 10 l

Wheels:

Front wheels: 2 pneumatics, steering function, diagonal carcass mudguards sheet metal with synthetics parts
6,50-16 AS front, PR 6; rim: 4,50 E x 16
Maximum permissible load on each tyre:
6033 N at 3,1 bar inflation pressure
12066 N at 3,9 bar inflation pressure
max. 8 km/h driving speed for front implement working
Track width: 1375, 1475, 1575, 1675, 1775, 1875 and 1975 mm, changeable by extending the front axle

Front wheels: (cont.) **Optional front wheel equipment:**
6, 50-20 AS front, PR 6 with rim 5,00 F x 20
7, 50-16 AS front, PR 6 with rim 5,50 F x 16
7, 50-18 AS front, PR 6 with rim 5,50 F x 18

Rear wheels: 2pneumatics, driving function, diagonal or radial carcass
sheet metal mudguards integrated in the safety cab
12, 4-36 AS, PR 6; rim: W 10 x 36
Maximum permissible load on each tyre:
14130 N at 1,7 bar inflation pressure
Track width: 1372 mm (1524 mm by reversing wheels)

Optional rear wheel equipment:
13, 6-36 AS, PR 6; rim: W 12 x 36
14, 9-30 AS, PR 6; rim: W 12 x 30
9, 5-36 AS, PR 6; rim: W 8 x 36
16, 9-30 AS, PR 6 or 8; rim: DW 14 x 30

Wheel base: 2155 mm

Lighting:

Unrestricted beam angle of head light in plan view: 92 mrad (5, 27°)

| | *) Height above ground of centre mm | Dimension mm | Distance from outside edge of tractor to centre mm |
|-------------|--|-----------------|---|
| Head lights | 903 | 135 x 115 | 710 |
| Side Lights | 1530 | 80 x 65 | 130 |
| Rear lights | 1530 | 80 x 65 | 130 |
| Reflectors | 1420 695 | 75 dia | 90 415 |

*) with tyre equipment: 12, 4-36 AS and 6, 50-16 AS front

**) with overall width of 1710 mm

Number of grease points: 19

Driver seat:

BOSTROM
Model XH 2 TS 2; tested on tractor according to national regulation (Prot.Nr. 077/79)
X-lever suspension with torsion springs, adjustable to drivers weight
Hydraulically damping
Horizontal adjustment range: 140 mm
Vertical adjustment range: 70 mm

Driver seat: GRAMMER
(cont.) Model DS 85 H/3; tested on tractor according to national regulation (Prot.Nr. 076/79)
X-lever suspension with 2 tension coil springs (force transmission by curve-disc and ball-bearing)
Hydraulically damping
Horizontal adjustment range: 140 mm
Vertical adjustment range: 60 mm

Safety frame: (as on tested tractor)
Own make
Model 110.01
Rubber mounted sheet construction with roof, windscreen, front cladding and rubber floor, without doors, claddings and damping materials, without side and rear glasses and without ventilation and heater.
Strength tested according to OECD-Code (identical to Austrian national legislation)
OECD-Nr.: CSD 0226/2-b(C)

Optional:
Own make
Model 110.02
Same construction, 120 mm lower
Strength tested to national legislation (identical to OECD-Code)

Safety cab: Own make
Model 110.11
Same rubber mounted sheet construction as safety frame with windscreen, front cladding, rubber floor, with damping material, with doors and side and rear glasses and with ventilation and heater.
Strength tested according to OECD-Code (identical to Austrian national legislation)
OECD-Nr.: CSD 0226/2-a(C)

Optional:
Model 110.12
Same construction, 120 mm lower
Strength tested to national legislation (identical to OECD-Code)

CONDITIONS DURING TEST

Tractormass:

Tractor without driver but with tanks full and safety frame

| | Front | Rear | Total |
|-----------------|---------|---------|---------|
| Without ballast | 918 kg | 1669 kg | 2587 kg |
| With ballast | 1149 kg | 2219 kg | 3368 kg |

Ballastmass:

| | Number of weights | Total mass (excluding water) | Water |
|------------|-------------------|------------------------------|--------|
| Front | 5 | 183 kg | - |
| Rear | 4 + 2 | 298 kg | 300 kg |
| Additional | - | - | - |

Track setting and tyre equipment:

1475 mm at front

1372 mm at rear

Front wheels: 6, 50-16 AS front, PR 6, rim: 4, 50 E x 16

Rear wheels: 12, 4-36 AS, PR 6, rim: W 10 x 36

Overall dimensions:

| | Length | Width | | Height ***) |
|-----------------|--------|---------|----------|-------------|
| | | max. *) | min. **) | |
| | mm | mm | mm | mm |
| With ballast | 3896 | 2290 | 1710 | 2410/2473 |
| Without ballast | 3716 | 2290 | 1710 | 2410/2473 |

*) measured on front wheels

***) measured on mudguards of rear wheels

***) measured on top of: safety cab/exhaust pipe with basis tyre equipment

Minimum ground clearance: 375 mm under front axle with basis tyre equipment (6, 50-16 AS front)

Fuel and lubricants used in tests:

- Fuel: ELAN Diesel fuel (according to DIN 51601)
specific gravity used for volumetric measurement:
0,855 kg/l at 15°C
Viscosity at 20°C: 5 mm²/s (5 cSt)
Cetan no. : 50
- Engine oil: MOBIL OIL SPECIAL SAE 10 W-30 HD, MIL-L-2104 A
Viscosity at 100°C: 10,6 mm²/s (10,6 cSt)
- Transmission oil: SHELL SPIRAX 90 HD, MIL-L-2105 B
Viscosity at 50°C: 112 mm²/s (112 cSt)
- Hydraulic oil: SHELL Tellus 33, SAE 20 W
Viscosity at 50°C: 40 mm²/s (40 cSt)

COMPULSORY TESTS

1. Main power take-off performance

Date and location of tests: 1979 08 27, Wieselburg, Austria

Type of dynamometer: SCHENK-eddy current brake - W 780

Main test on: ISO R 500, Type 1 (DIN 9611) - 540 rev/min

| Power | Speed | | Fuel consumption | | | |
|--|---------|----------|------------------|----------|----------|-------|
| | engine | p. t. o. | total | specific | specific | |
| kW | rev/min | rev/min | kg/h | l/h | g/kWh | kWh/l |
| MAXIMUM POWER | | | | | | |
| Maximum power - 2 hours test | | | | | | |
| 38,29 | 2400 | 634 | 10,26 | 12,00 | 268 | 3,189 |
| Standard p. t. o. speed | | | | | | |
| 37,18 | 2044 | 540 | 9,57 | 11,19 | 257,5 | 3,320 |
| 37,72 | 2130 | 563 | 9,81 | 11,47 | 260 | 3,288 |
| The speed recommended by the manufacturer for drawbar work | | | | | | |
| 38,29 | 2400 | 634 | 10,26 | 12,00 | 268 | 3,189 |
| PART LOADS | | | | | | |
| Governor hand lever in position giving maximum power | | | | | | |
| (i) 85 % of torque at maximum power | | | | | | |
| 33,58 | 2475 | 654 | 9,27 | 10,83 | 276 | 3,097 |
| (ii) unloaded | | | | | | |
| 0 | 2570 | 679 | 3,51 | 4,10 | - | - |
| (iii) 50 % of the load defined in (i) | | | | | | |
| 17,11 | 2525 | 667 | 6,16 | 7,20 | 360 | 2,375 |
| (iv) maximum power | | | | | | |
| 38,29 | 2400 | 634 | 10,26 | 12,00 | 268 | 3,189 |
| (v) 25 % of the load defined in (i) | | | | | | |
| 8,65 | 2547 | 673 | 4,81 | 5,64 | 557 | 1,535 |
| (vi) 75 % of the load defined in (i) | | | | | | |
| 25,45 | 2502 | 661 | 7,63 | 8,91 | 299,5 | 2,853 |

| Power | Speed | | Fuel consumption | | | |
|--|---------|----------|------------------|----------|----------|-------|
| | engine | p. t. o. | total | specific | specific | |
| kW | rev/min | rev/min | kg/h | l/h | g/kWh | kWh/l |
| PART LOADS | | | | | | |
| Governor hand lever in position giving standard p. t. o. speed at full load. | | | | | | |
| (i) 85 % of torque at standard p. t. o. speed | | | | | | |
| 32,30 | 2089 | 552 | 8,49 | 9,41 | 263 | 3,252 |
| (ii) unloaded | | | | | | |
| - | 2252 | 595 | 2,67 | 3,13 | - | - |
| (iii) 50 % of the load defined in (i) | | | | | | |
| 16,76 | 2169 | 573 | 5,49 | 6,43 | 328 | 2,608 |
| (iv) maximum power at standard p. t. o. speed | | | | | | |
| 37,18 | 2044 | 540 | 9,57 | 11,19 | 257,5 | 3,329 |
| (v) 25 % of the load defined in (i) | | | | | | |
| 8,54 | 2210 | 584 | 4,09 | 4,77 | 478,5 | 1,787 |
| (vi) 75 % of the load defined in (i) | | | | | | |
| 24,62 | 2123 | 561 | 6,95 | 8,13 | 282,5 | 3,028 |
| STANDARD SPECIFIC FUEL CONSUMPTION: $276/360 = 263/328$ g/kWh | | | | | | |

No load maximum engine speed: 2570 rev/min

Equivalent crankshaft torque
at maximum power: 152,4 Nm

Maximum equivalent crankshaft torque: 187,8 Nm at 1600 rev/min of engine

Mean atmospheric conditions: temperature: 20°C
pressure: 986 mbar
humidity: 67 %

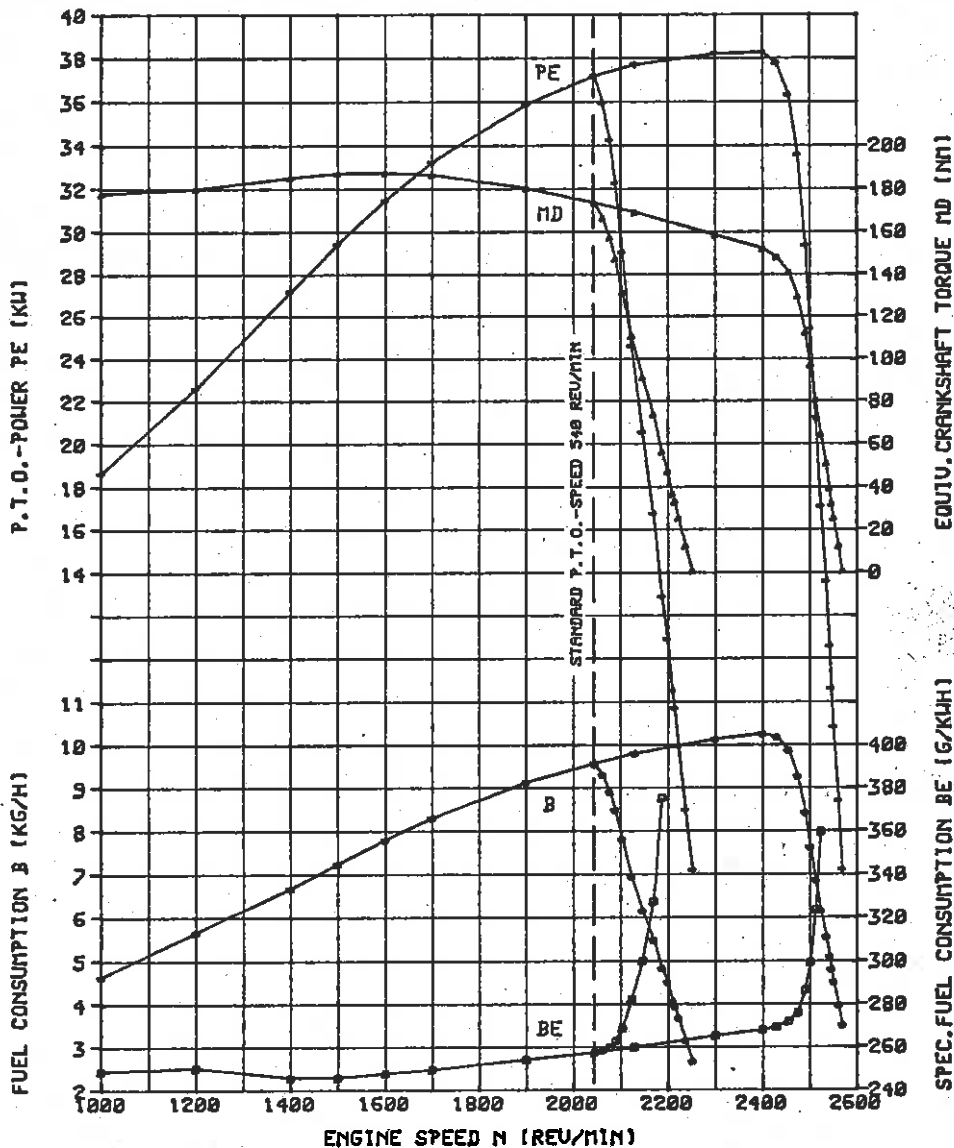
Maximum temperatures: coolant: 85°C
engine oil: 116°C
fuel: 65°C
air intake: 27°C

BUNDESVERSUCHS- U. PRUEFUNGSANST.
 FÜR LANDW. MASCHINEN U. GERÄTE
 WIESELBURG/ERLAUF, AUSTRIA
 PROT. NR.: 068/80

P.T.O.-TEST

STEYR
 TYP 337.30 (8070)
 MOT. TYP UD 411.42

540 REU/MIN



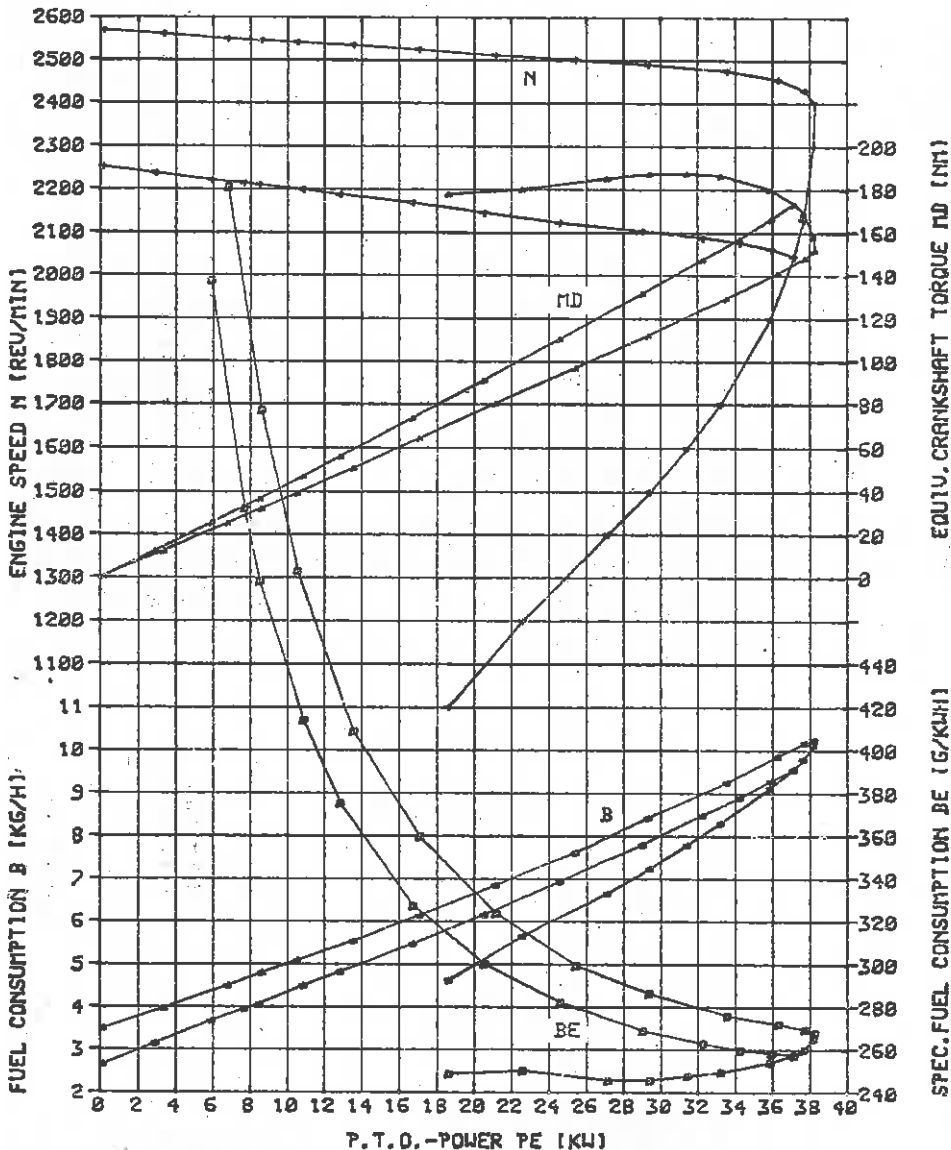
| | | | |
|--------------------------------|-------------------------|-------------------------|-------------------|
| ENGINE SER. NR.: 411.42-1802 | ATM. PRESSURE, 986 mBAR | FUEL TEMP., 65 C | SIGNATURE |
| TRAKTOR SER. NR.: 337.30-01001 | AIR TEMP., 20 C | D. OF TESTS: 1979-08-27 | <i>A. Reither</i> |
| FUEL, 8.855/15 C | COOLANT TEMP., 85 C | TEST NO.: 124/20120 | |
| ENGINE OIL, SAE 10W-30 | OIL TEMP., 116 C | CURVES' NO.: 1 | REITHER |

BLANDESVERSUCHS- U. PRUEFUNGSANST.
FUER LANDW. MASCHINEN U. GERATE
WIESELBURG/ERLAUF, AUSTRIA
PROT. NR., 068/80

P.T.O.-TEST

STEYR
TYP 337.38 (8078)
MOT. TYP WD 411.42

540 REU/MIN



| | | | |
|--------------------------------|-------------------------|-------------------------|--------------------|
| ENGINE SER. NR., 411.42-1082 | ATM. PRESSURE, 596 mBAR | FUEL TEMP., 65 C | SIGNATURE |
| TRACTOR SER. NR., 337.38-01001 | AIR TEMPER., 20 C | D. OF TESTS, 1979-88-27 | <i>A. Reithner</i> |
| FUEL, 0.855/15 C | COOLANT TEMP., 85 C | TEST NO., 124/2A128 | |
| ENGINE OIL, SAE 10W-30 | OIL TEMP., 116 C | CURVES NO., 2 | REITHNER |

2. Drawbar performance

Date of tests: 1979 10 01 to 04

Type of track: Concrete

Height of drawbar above ground: 575 mm ballasted, 565 mm unballasted

| Gear No. | Speed km/h | Power kW | Drawbar pull N | Engine speed rev/min | Slip of wheels % | Fuel consumption | | Temperatures | | | Atmosph. conditions | | |
|-------------------------------|---------------|-------------|-------------------|-------------------------|---------------------|-------------------|-------------------|--------------|---------------|------------------|---------------------|---------------|------------------|
| | | | | | | specific kWh/l | specific g/kWh | Fuel °C | Coolant °C | Engine Oil °C | Temperature °C | humidity % | Pressure mbar |
| (1) Maximum power (ballasted) | | | | | | | | | | | | | |
| VN1L | 1,361 | 12,93 | 34198 | 2479 | 15 | - | - | 50 | 80 | 105 | 15 | 74 | 989 |
| VS1L | 1,666 | 15,83 | 34205 | 2467 | 15 | - | - | 50 | 81 | 104 | 15 | 73 | 989 |
| VN2L | 2,567 | 24,39 | 34206 | 2434 | 15 | 2,081 | 415,5 | 51 | 82 | 105 | 16 | 73 | 989 |
| VS2L | 3,129 | 29,73 | 34200 | 2412 | 15 | 2,492 | 343 | 49 | 80 | 103 | 15 | 74 | 989 |
| VN3L | 3,932 | 32,00 | 29309 | 2400 | 11,2 | 2,668 | 320,5 | 49 | 81 | 106 | 16 | 73 | 989 |
| VN1S | 4,720 | 32,95 | 25136 | 2400 | 8,9 | 2,747 | 311 | 49 | 80 | 108 | 16 | 74 | 989 |
| VS3L | 4,987 | 33,10 | 23893 | 2400 | 6,4 | 2,760 | 309,5 | 49 | 80 | 109 | 16 | 74 | 989 |
| VS1S | 5,926 | 33,25 | 20203 | 2400 | 7 | 2,772 | 308,5 | 50 | 81 | 109 | 15 | 74 | 989 |
| VN4L | 6,862 | 33,20 | 17419 | 2400 | 6,1 | 2,768 | 309 | 50 | 81 | 108 | 16 | 74 | 989 |
| VS4L | 8,537 | 32,95 | 13893 | 2400 | 5 | 2,747 | 311 | 50 | 81 | 109 | 16 | 74 | 989 |
| VN2S | 9,496 | 32,72 | 12403 | 2400 | 4,6 | 2,729 | 313,5 | 50 | 81 | 107 | 16 | 73 | 989 |

| Gear No. | Speed km/h | Power kW | Drawbar pull N | Engine speed rev/min | Slip of wheels % | Fuel consumption | | Temperatures | | | Atmosph. conditions | | |
|---|------------|----------|----------------|----------------------|------------------|------------------|----------------|--------------|------------|---------------|---------------------|-----------------|---------------|
| | | | | | | specific kWh/l | specific g/kWh | Fuel °C | Coolant °C | Engine Oil °C | Temperature °C | rel. humidity % | Pressure mbar |
| (i) Five-hour-test at 75 % of pull at maximum power | | | | | | | | | | | | | |
| VS1S | 6,352 | 26,32 | 15154 | 2475 | 5,4 | 2,422 | 353 | 55 | 82 | 112 | 18 | 62 | 997 |
| (ii) Five-hour-test at pull corresponding to 15 % wheelslip in test (i) | | | | | | | | | | | | | |
| VS2L | 3,151 | 29,93 | 34205 | 2415 | 15 | 2,501 | 342 | 54 | 82 | 113 | 17 | 64 | 997 |
| (iv) Maximum power (unballasted) | | | | | | | | | | | | | |
| VS2L | 3,135 | 23,86 | 27398 | 2420 | 15 | - | - | 47 | 80 | 102 | 16 | 60 | 985 |
| VN3L | 3,764 | 28,65 | 27400 | 2403 | 15 | 2,393 | 357,5 | 49 | 80 | 103 | 17 | 59 | 985 |
| VN1S | 4,591 | 31,37 | 24604 | 2400 | 11,3 | 2,616 | 327 | 50 | 81 | 105 | 17 | 59 | 985 |
| VS3L | 4,872 | 31,79 | 23488 | 2400 | 10,4 | 2,651 | 322,5 | 50 | 81 | 106 | 17 | 58 | 985 |
| VS1S | 5,823 | 32,52 | 20101 | 2400 | 8,5 | 2,712 | 315,5 | 50 | 80 | 107 | 17 | 58 | 985 |
| VN4L | 6,767 | 32,60 | 17343 | 2400 | 7,3 | 2,719 | 314,5 | 50 | 81 | 107 | 18 | 58 | 985 |
| VS4L | 8,448 | 32,38 | 13798 | 2400 | 5,9 | 2,700 | 316,5 | 51 | 81 | 108 | 18 | 59 | 985 |
| VN2S | 9,415 | 32,12 | 12283 | 2400 | 5,3 | 2,678 | 319 | 51 | 80 | 108 | 19 | 58 | 985 |

Total oil consumption during 10 hours duration of tests (i) and (iii): 61 g/h.

3. Turning space and turning circle

Wheel equipment front: SEMPERIT 6, 50-16 AS front, PR 6

rear: SEMPERIT 12, 4-36 AS, PR 6

Track of wheels front: 1475 mm

rear: 1372 mm

| Results | With brakes | | Without brakes | |
|--------------------------|-------------|-----------|----------------|-----------|
| | right-hand | left-hand | right-hand | left-hand |
| | m | m | m | m |
| Radius of turning space | 3,48 | 3,53 | 3,85 | 3,93 |
| Radius of turning circle | 3,30 | 3,35 | 3,67 | 3,75 |

4. Location of centre of gravity

| | |
|---|-----|
| | mm |
| Height above ground | 888 |
| Distance forward from the vertical plane containing the axis of the rear wheels | 753 |
| Distance from the median plane, left-hand | 1 |

5. Braking

Date of tests: 1979 10 01

Type of track: Concrete

Type of decelerometer: Moto-Meter Nr. 15813 (Kombi-Schreiber)

Mass of ballasted tractor: 3455 kg (with driver)

Cold brakes

| | | Ballasted | Without ballast |
|---|------------------|-----------|-----------------|
| Travelling speed of the tractor | km/h | 25 | 25 |
| (i) Deceleration | m/s ² | 4,5 | 3,5 |
| (ii) Stopping distance | m | 5,57 | 8,64 |
| (iii) Force exerted on the brake pedal | N | 200 | 175 |
| (iv) Force exerted on the brake pedal to achieve a deceleration of 2,5 m/s ² | N | 145 | 150 |

| Brake fade characteristics (hot tests) | Ballasted | Unballasted |
|--|-----------|-------------|
| Deceleration hot / deceleration cold x 100 | 100 | 100 |
| Stopping distance cold / Stopping distance hot x 100 | 90 | 110 |
| Force on pedal, cold / Force on pedal, hot x 100 | 33 | 92 |
| Force on pedal, cold / force on pedal, hot to achieve a deceleration of $2,5 \text{ m/s}^2$ x 100 | 50 | 55 |

Efficiency of handbrake:

Satisfactory facing up and down slope of 16 %
pull on handbrake: 295 N

6. Measurement of ambient noise

Date of tests: 1979 09 20

Type of sound level meter: 2203 BRÜEL & KJAER

Type of track: Concrete

Results of tests:

Gear: VS 4 S

Travelling speed before acceleration: 24 km/h

Sound level: 89 dB(A)

7. Noise measurement at the driver's ear level

Date of tests: 1979 09 20

Type of sound level meter and octave filter:

2203 and 1613 BRÜEL & KJAER

Type of track: Concrete

Results of tests (tractor with safety frame):

| Gear | Effective travelling speed | Sound level | |
|--------|----------------------------|-------------|--------------|
| | | dB(A) | Noise rating |
| VN 1 L | 1,60 km/h | 88,5 | - |
| VS 1 L | 1,97 km/h | 87,0 | - |
| VN 2 L | 3,07 km/h | 87,5 | - |
| VS 2 L | 3,61 km/h | 87,5 | - |
| VN 3 L | 4,38 km/h | 87,5 | - |
| VS 3 L | 5,25 km/h | 88,0 | - |
| VN 1 S | 4,94 km/h | 88,0 | - |
| VS 1 S | 6,25 km/h | 88,0 | - |
| VN 4 L | 7,14 km/h | 88,0 | - |
| VS 4 L | 8,68 km/h | 88,0 | - |
| VN 2 S | 9,33 km/h | 88,5 | - |
| VS 2 S | 11,60 km/h | 89,0 | - |
| VN 3 S | 14,36 km/h | 88,0 | - |
| VS 3 S | 17,59 km/h | 87,0 | - |
| VN 4 S | 23,56 km/h | 88,5 | - |
| VS 4 S | 29,75 km/h | 87,5 | - |

8. Power lift and hydraulic pump performance

Date and location of tests: 1979 11 07, Wieselburg, Austria
Hydraulic fluid:

Make and type: SHELL Tellus 33, SAE 20 W

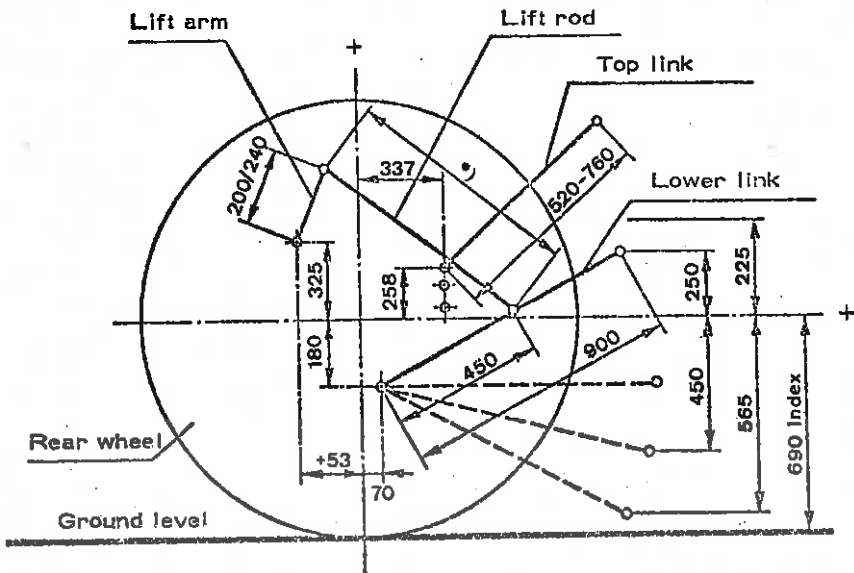
Viscosity at 50°C: 40 mm²/s (40 cSt)

Typ of linkage lock for transport: hydraulically by throttle valve

Opening pressure of the cylinder overpressure relief valve
(manufacturer specification): 24,5 MPa (245 bar)

Pump characteristics:

- (i) Opening pressure of the relief valve: 18,0 MPa (180 bar)
sustained pressure by the open relief valve: 17,2 MPa (172 bar)
- (ii) Pump delivery rate at minimum pressure
and rated engine speed: 35,1 l/min
- (iii) Pump delivery rate: 34,4 l/min
delivery pressure: 17,2 MPa (172 bar)
power: 9,86 kW



- *) basis adjustment: both lift rods 534 mm
left lift rod: from 534 mm to 621 mm adjustable
right lift rod: from 500 mm to 621 mm adjustable

Linkage geometry when connected to the standard frame

| | Maximum mechanical advantage | Minimum mechanical advantage |
|---|------------------------------|------------------------------|
| Projected length in side view | | |
| Lower links | 900 | 900 |
| Lift arms | 200 | 240 |
| Lift rods | 534 | 534 |
| Top link | 622 | 622 |
| Distance of lift rod connection point from pivot point of lower link | 450 | 450 |
| The following dimensions are given relative to the rear wheel centre line, situated 690 mm*) above the ground level | | |
| Lower link pivot point | 70 behind | 180 below |
| Top link pivot point | 337 behind | 258 above |
| Lift arm pivot point | 53 behind | 325 above |
| Maximum und minimum height of lower link hitch points | 250 above | 230 below |
| Height of lower link hitch points locked in transport position | from 250 above to 230 below | from 225 above to 340 below |

*) Index radius

Performance of power lift

| Lifting heights in relation to a horizontal line through the lower link pivoting point | -155 | -135 | -100 | -55 | -30 | 0 | +100 | +150 | +200 | +300 | +380 | +400 | +430 | +470 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | mm | | | | | | | | | | | | | |
| Lifting force at the hitch-points kN (Values for the pressure at maximum hydraulic power, calculated from measurements made at maximum pressure) | | | | | 29, 43 | 26, 59 | 25, 80 | 25, 51 | 25, 36 | 24, 43 | 23, 94 | 23, 94 | | |
| Lifting force at the frame kN (Values for the pressure at maximum hydraulic power, calculated from measurements made at maximum pressure) | 23, 44 | 22, 66 | 22, 07 | 22, 02 | 22, 07 | 22, 07 | 21, 58 | 21, 29 | 20, 99 | 20, 45 | 20, 36 | | | |
| Maximum force exerted throughout whole range: 23, 94/20, 36 kN | | | | | | | | | | | | | | |
| Oil pressure: 17, 2 MPa (172 bar) | | | | | | | | | | | | | | |
| Lifting force at the hitch-points kN (Values for the pressure at maximum hydraulic power, calculated from measurements made at maximum pressure) | | | | 26, 73 | 26, 00 | 25, 41 | 23, 69 | 22, 81 | 22, 17 | 20, 16 | 18, 54 | 18, 20 | 17, 66 | 17, 36 |
| Lifting force at the frame kN (Values for the pressure at maximum hydraulic power, calculated from measurements made at maximum pressure) | | | | | | | 24, 23 | 22, 27 | 21, 44 | 20, 99 | 20, 50 | 19, 23 | 18, 59 | 18, 00 |
| Maximum force exerted throughout whole range: 17, 36/14, 86 kN | | | | | | | | | | | | | | |
| Oil pressure: 17, 2 MPa (172 bar) | | | | | | | | | | | | | | |

OPTIONAL TEST

9. Main power take-off performance

Date and location of tests: 1979 08 27, Wieselburg, Austria

Type of dynamometer: SCHENK-eddy current brake - W 780

Main test on: ISO R 500, Type 2 (DIN 9611) - 1000 rev/min

| Power | Speed | | Fuel consumption | | |
|--|---------|----------|------------------|----------|----------|
| | engine | p. t. o. | total | specific | specific |
| kW | rev/min | rev/min | kg/h l/h | g/kWh | kWh/l |
| MAXIMUM POWER | | | | | |
| Maximum power - 2 hours test | | | | | |
| 39,22 | 2400 | 1127 | 10,27 12,02 | 262 | 3,262 |
| Standard p. t. o. speed | | | | | |
| 38,65 | 2130 | 1000 | 9,86 11,53 | 255 | 3,351 |
| 38,02 | 2044 | 960 | 9,59 11,22 | 252,5 | 3,388 |
| The speed recommended by the manufacturer for drawbar work | | | | | |
| 39,22 | 2400 | 1127 | 10,27 12,02 | 262 | 3,262 |
| PART LOADS | | | | | |
| Governor hand lever in position giving maximum power | | | | | |
| (i) 85 % of torque at maximum power | | | | | |
| 34,42 | 2477 | 1163 | 9,33 10,92 | 271 | 3,152 |
| (ii) unloaded | | | | | |
| - | 2573 | 1208 | 3,44 4,02 | - | - |
| (iii) 50 % of the load defined in (i) | | | | | |
| 17,55 | 2526 | 1186 | 6,15 7,19 | 350,5 | 2,439 |
| (iv) maximum power | | | | | |
| 39,22 | 2400 | 1127 | 10,27 12,02 | 262 | 3,263 |
| (v) 25 % of the load defined in (i) | | | | | |
| 8,85 | 2547 | 1196 | 4,73 5,54 | 534,5 | 1,599 |
| (vi) 75 % of the load defined in (i) | | | | | |
| 26,08 | 2503 | 1175 | 7,66 8,95 | 293,5 | 2,912 |

| Power | Speed | | Fuel consumption | | |
|---|---------|----------|------------------|----------|----------|
| | engine | p. t. o. | total | specific | specific |
| kW | rev/min | rev/min | kg/h l/h | g/kWh | kWh/l |
| PART LOADS | | | | | |
| Governor hand lever in position giving standard p. t. o. speed at full load | | | | | |
| (i) 85 % of torque at standard p. t. o. speed | | | | | |
| 33,64 | 2181 | 1024 | 8,79 10,28 | 261 | 3,273 |
| (ii) unloaded | | | | | |
| - | 2339 | 1098 | 2,97 3,48 | - | - |
| (iii) 50 % of the load defined in (i) | | | | | |
| 17,46 | 2264 | 1063 | 5,78 6,76 | 331 | 2,58 |
| (iv) maximum power at standard p. t. o. speed | | | | | |
| 38,65 | 2130 | 1000 | 9,86 11,53 | 255 | 3,35 |
| (v) 25 % of the load defined in (i) | | | | | |
| 8,86 | 2303 | 1081 | 4,29 5,01 | 484 | 1,766 |
| (vi) 75 % of the load defined in (i) | | | | | |
| 25,73 | 2224 | 1044 | 7,21 8,43 | 280,5 | 3,050 |
| STANDARD SPECIFIC FUEL CONSUMPTION: 271/350,5 - 261/331 g/kWh | | | | | |

No load maximum engine speed: 2573 rev/min

Equivalent crankshaft torque

at maximum power: 156 Nm

Maximum equivalent crankshaft torque: 191,4 Nm at 1600 rev/min of engine

Mean atmospheric conditions: temperature: 19°C

pressure: 986 mbar

humidity: 67 %

Maximum temperatures: coolant: 85°C

engine oil: 115°C

fuel: 66°C

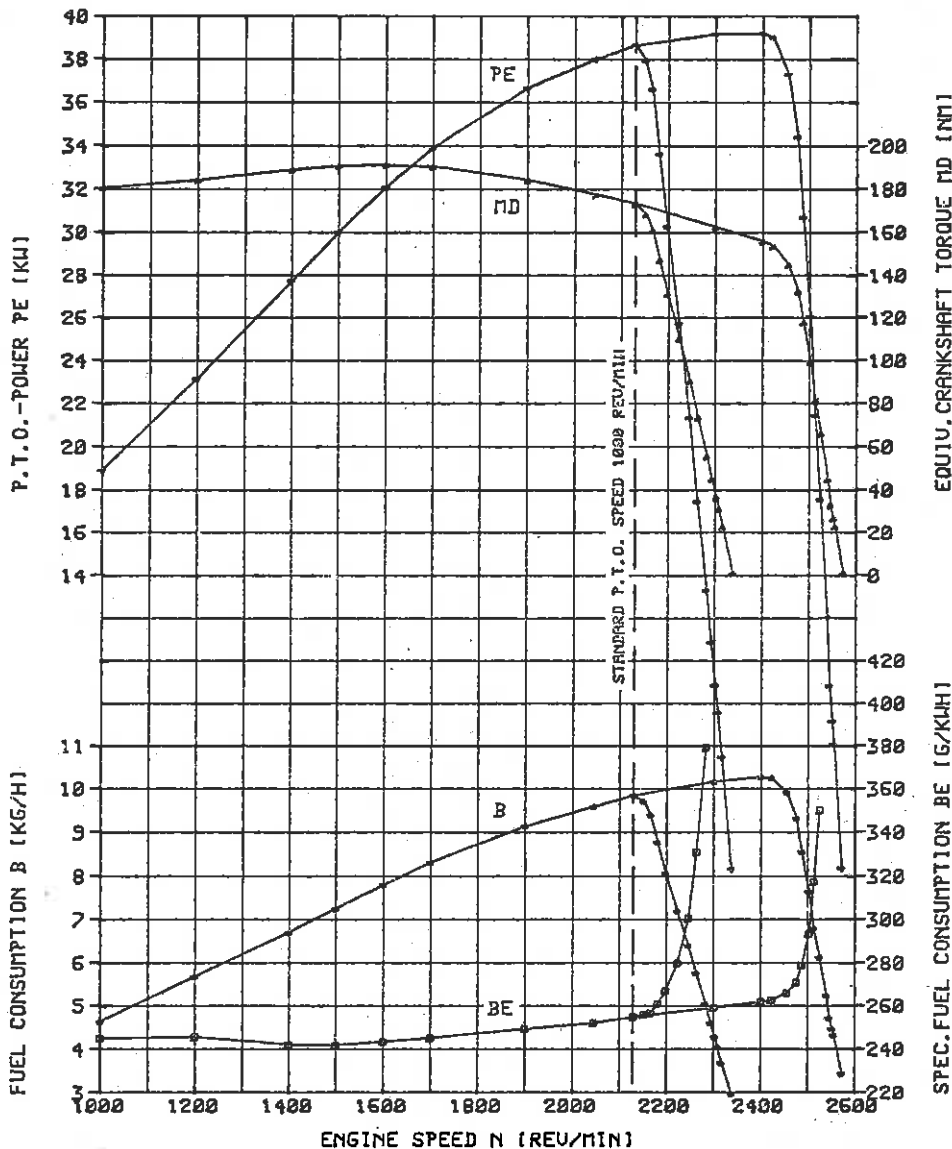
air intake: 27°C

BUNDESVERSUCHS- U. PRUEFUNGSANST.
FUER LANDW. MASCHINEN U. GERÄTE
WIENESENBURG/ERLAUF, AUSTRIA
PROT. NR. : 068/80

P. T. O. - TEST

STEYR
TYP 337.30 (8070)
MOT. TYP WD 411.42

1000 REU/MIN



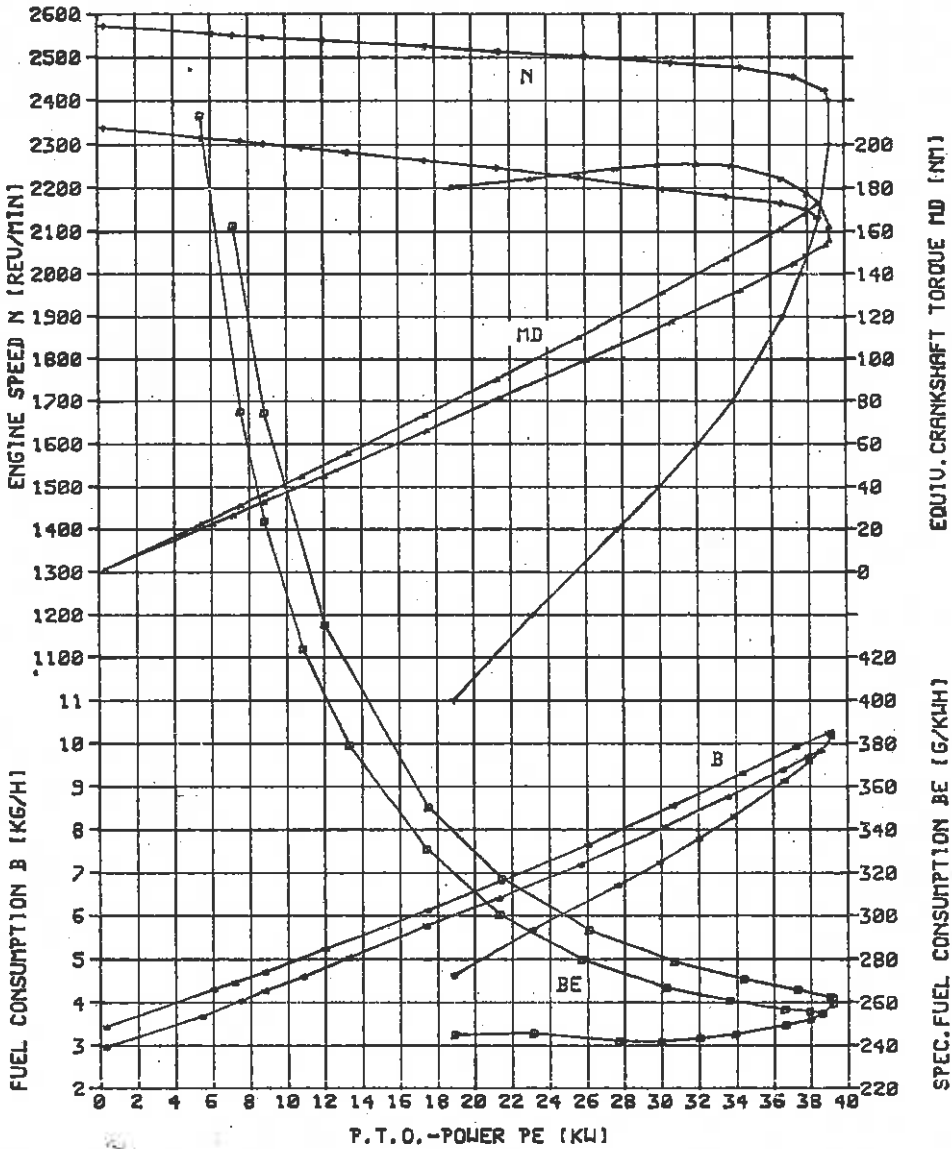
| | | | |
|---------------------------------|--------------------------|--------------------------|-------------------|
| ENGINE SER. NR. : 411.42-1802 | ATM. PRESSURE : 986 mBAR | FUEL TEMP. : 66 C | SIGNATURE |
| TRAKTOR SER. NR. : 337.30-01001 | AIR TEMPER. : 13 C | D. OF TESTS : 1979-08-27 | <i>A. Reitler</i> |
| FUEL : 0.855/15 C | COOLANT TEMP. : 85 C | TEST NO. : 124/2A128 | |
| ENGINE OIL : SAE 10W-30 | OIL TEMP. : 115 C | CURVES NO. : 3 | REITNER |

BUNDESVERSUCHS- U. PRUEFUNGSANST.
 FUER LANDW. MASCHINEN U. GERATE
 WIESELBURG/ERLAUF, AUSTRIA
 PROT. NR.: 068/80

P.T.O.-TEST

STEYR
 TYP 337.30 (8070)
 MOT. TYP WD 411.42

1000 REU/MIN



| | | | |
|--------------------------------|--------------------------|-------------------------|--------------------------------|
| ENGINE SER. NR.: 411.42-1002 | ATM. PRESSURE , 986 mBAR | FUEL TEMP. , 66 C | SIGNATURE <i>A. Deitler</i> |
| TRACTOR SER. NR.: 337.30-01001 | AIR TEMPER. , 19 C | D. OF TESTS: 1379-00-27 | |
| FUEL , 0.855/15 C | COOLANT TEMP. , 85 C | TEST NO. , 124/ZR120 | REITNER |
| ENGINE OIL , SAE 10W-30 | OIL TEMP. , 115 C | CURVES NO. , 4 | |

OPTIONAL TEST

10. Engine performance

Date and location of test: 1979 08 21, Wieselburg, Austria

Type of dynamometer: SCHENK- eddy current brake - W 780

| Power | Engine speed | Fuel consumption | | | |
|--|--------------|------------------|-------|----------|----------|
| | | total | | specific | specific |
| kW | rev/min | kg/h | (l/h) | g/kWh | kWh/l |
| Maximum power - 2 hours test | | | | | |
| 41,88 | 2400 | 10,25 | 11,99 | 245 | 3,492 |
| Standard p. t. o. speed (540 - 1000 rev/min) | | | | | |
| 41,32 | 2130 | 9,79 | 11,45 | 237 | 3,607 |
| 40,68 | 2044 | 9,56 | 11,18 | 235 | 3,636 |
| The speed recommended by the manufacturer for drawbar work | | | | | |
| 41,88 | 2400 | 10,25 | 11,99 | 245 | 3,492 |
| Part loads | | | | | |
| (i) 85 % of torque at maximum power | | | | | |
| 36,83 | 2480 | 9,25 | 10,82 | 251 | 3,405 |
| (ii) unloaded | | | | | |
| - | 2580 | 3,12 | 3,65 | - | - |
| (iii) 50 % of the load defined in (i) | | | | | |
| 18,73 | 2531 | 5,94 | 6,94 | 317 | 2,695 |
| (iv) maximum power | | | | | |
| 41,88 | 2400 | 10,25 | 11,99 | 245 | 3,492 |
| (v) 25 % of the load defined in (i) | | | | | |
| 9,45 | 2555 | 4,44 | 5,19 | 470 | 1,820 |
| (vi) 75 % of the load defined in (i) | | | | | |
| 27,83 | 2507 | 7,51 | 8,79 | 270 | 3,168 |

Optimum fuel consumption: 228 g/kWh at 25,2 kW and 1400 rev/min

No load maximum engine speed: 2580 rev/min

Torque at maximum power: 166,6 Nm

Maximum torque: 202,9 Nm at 1600 rev/min of engine

Mean atmospheric conditions: temperature: 20°C

pressure: 988 mbar

relative humidity: 70 %

Maximum temperatures:

coolant: 88°C

engine oil: 112°C

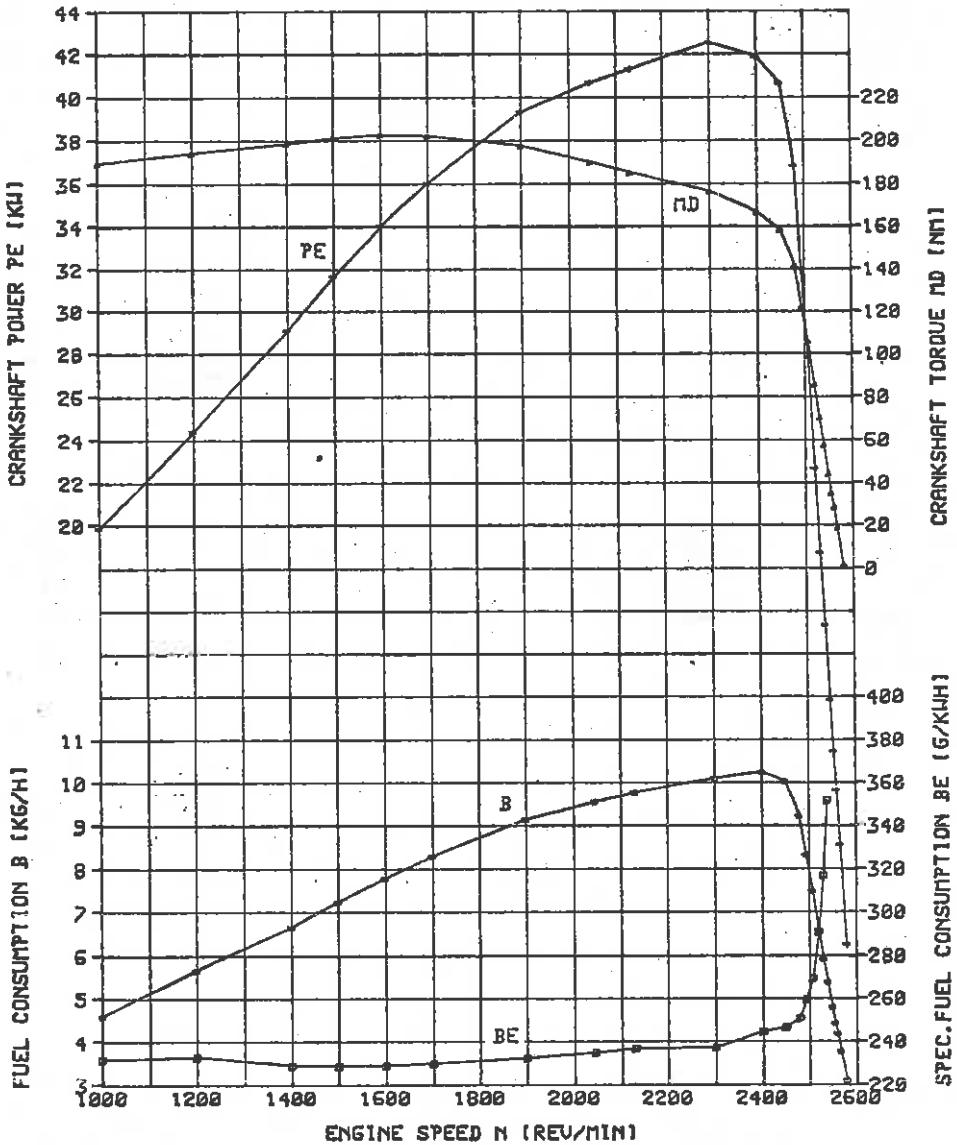
fuel: 58°C

engine air intake: 27°C

BUNDESVERSUCHS- U. PRUEFUNGSANST.
 FUER LANDW. MASCHINEN U. GERÄTE
 WIESELBURG/ERLAUF, AUSTRIA
 PROT. NR. : 068/80

ENGINE-TEST

STEYR
 TYP 337.30 (8070)
 MOT. TYP UD 411.42

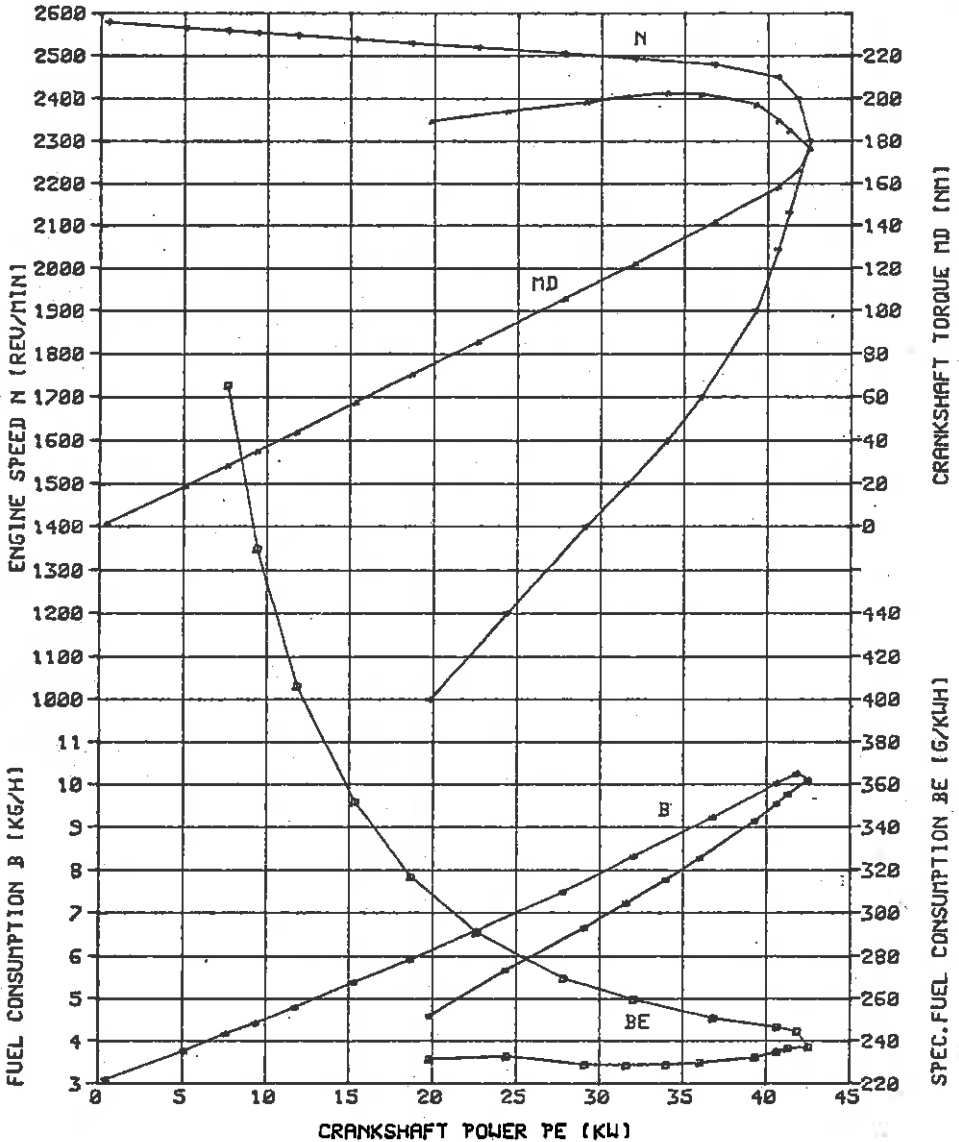


| | | | |
|---------------------------------|--------------------------|--------------------------|-------------------|
| ENGINE SER. NR. : 411.42-1802 | ATM. PRESSURE : 988 mBAR | FUEL TEMP. : 58 C | SIGNATURE |
| TRAKTOR SER. NR. : 337.30-01001 | AIR TEMPER. : 20 C | D. OF TESTS : 1979-08-21 | <i>A. Reither</i> |
| FUEL : 0.855/15 C | COOLANT TEMP. : 88 C | TEST NO. : 124/1172 | |
| ENGINE OIL : SAE 184-38 | OIL TEMP. : 112 C | CURVES NO. : 5 | REITHER |

BUNDESVERSUCHS- U. PRUEFUNGSANST.
FUER LANDW. MASCHINEN U. GERAETE
WIESELBURG/ERLAUF, AUSTRIA
PROT. NR. : 068/80

ENGINE-TEST

STEYR
TYP 337.30 (8070)
MOT. TYP WD 411.42



| | | | |
|----------------------------------|--------------------------|-------------------------|---|
| ENGINE SER. NR., : 411.42-1002 | ATM. PRESSURE , 988 mBAR | FUEL TEMP., 58 C | SIGNATURE <i>A. Reitner</i> REITNER |
| TRAKTOR SER. NR., : 337.30-81001 | AIR TEMPER. , 20 C | D. OF TESTS, 1979-08-21 | |
| FUEL , 8.855/15 C | COOLANT TEMP., 88 C | TEST NO. , 124/1172 | |
| ENGINE OIL , SAE 10W-30 | OIL TEMP. , 112 C | CURVES NO., : C | |

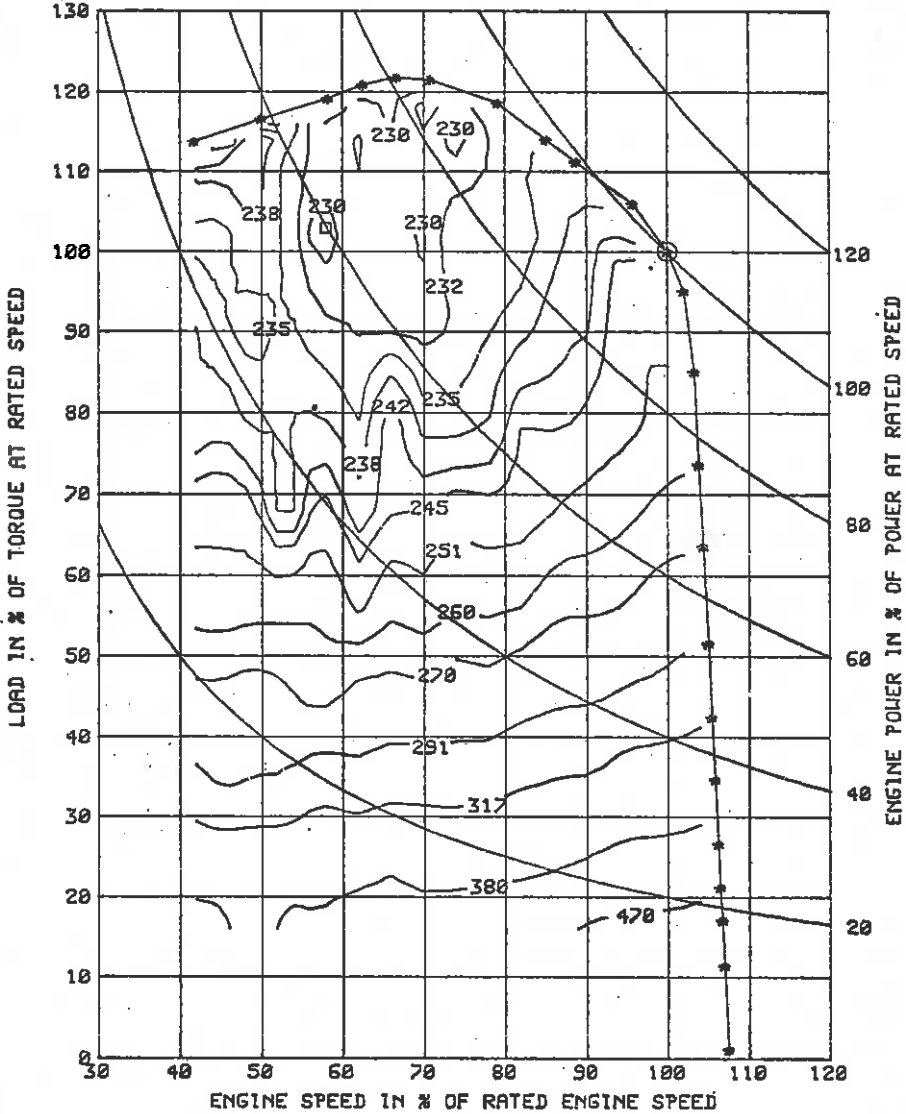
BUNDESVERSUCHS- U. PRUEFUNGSANST.
 FUER LANDW. MASCHINEN U. GERATE
 UTSELBURG/ERLAUF, AUSTRIA
 PROT.NR.: 068/80

ENGINE PERFORMANCE
 CHARACTERISTICS

STEYR
 TYP 337.30 (8070)
 NOT.TYP WD 411.42

□ MIN. FUEL CONS. 228.20 G/KWH AT N = 1392. REV/MIN,
 MD = 171.63 NM, P = 25.0 KW

⊙ N = 2400. REV/MIN, MD = 167. NM, P = 41.9 KW



| | | | |
|-------------------------------|------------------------|------------------------|---|
| ENGINE SER.NR., 411.42-1802 | ATM.PRESSURE, 986 mBAR | FUEL TEMP., 58 C | SIGNATURE <i>A. Reither</i> REITHER |
| TRACTOR SER.NR., 337.30-01001 | AIR TEMPER., 20 C | D.OF TESTS, 1979-20-21 | |
| FUEL, 8.855/13 C | COOLANT TEMP., 89 C | TEST NO., 124/1172 | |
| ENGINE OIL, SAE 104-30 | OIL TEMP., 112 C | CURVES NO., 7 | |

ANNEX

REDUCTION OF POWER DATA TO STANDARD CONDITIONS

According to:

Austrian Standard Ö-Norm V - 5003
German Standard DIN 70020 Teil 6

$$P_{RED} = P_{OECD} \cdot k; \quad \text{where } k = \frac{1013}{B} \cdot \sqrt{\frac{273 + t}{293}}$$

A) MAIN POWER TAKE OFF PERFORMANCE (page 14 and 26)

Test conditions: Intake air temperature

t = 20°C for test of p. t. o. 540 rev/min

t = 19°C for test of p. t. o. 1000 rev/min

Atmospheric pressure B = 986 mbar

Resulting reduction coefficient:

k = 1,0274 for test of p. t. o. 540 rev/min

k = 1,0256 for test of p. t. o. 1000 rev/min

| | P _{OECD} | P _{RED} |
|-------------------------------|----------------------|----------------------|
| MAXIMUM POWER 540 rev/min | 38,29 kW (52,07 MPH) | 39,34 kW (53,50 MPH) |
| MAXIMUM POWER 1000 rev/min | 39,22 kW (53,34 MPH) | 40,22 kW (54,70 MPH) |

B) ENGINE PERFORMANCE (page 30)

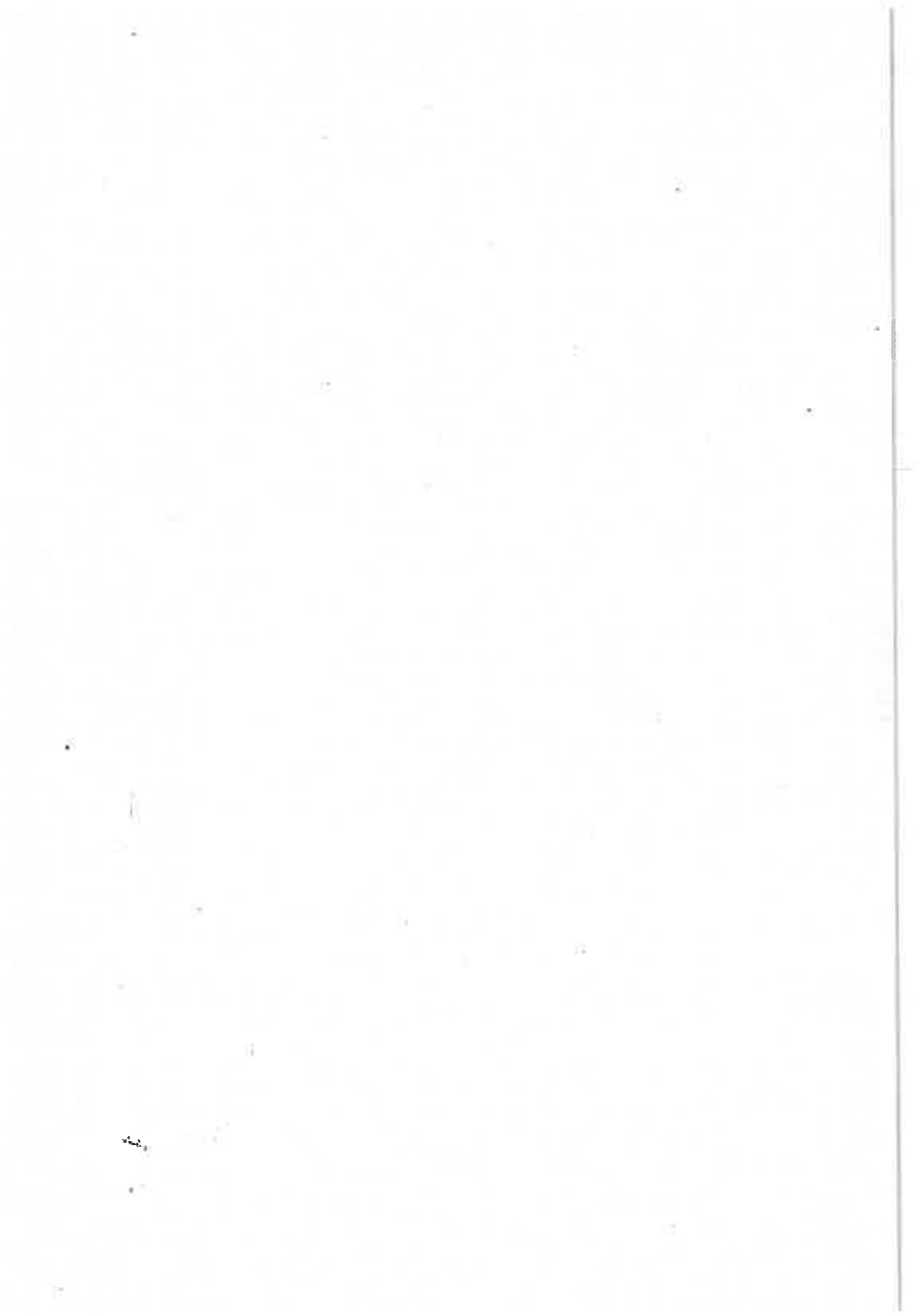
Test conditions: Intake air temperature t = 20°C

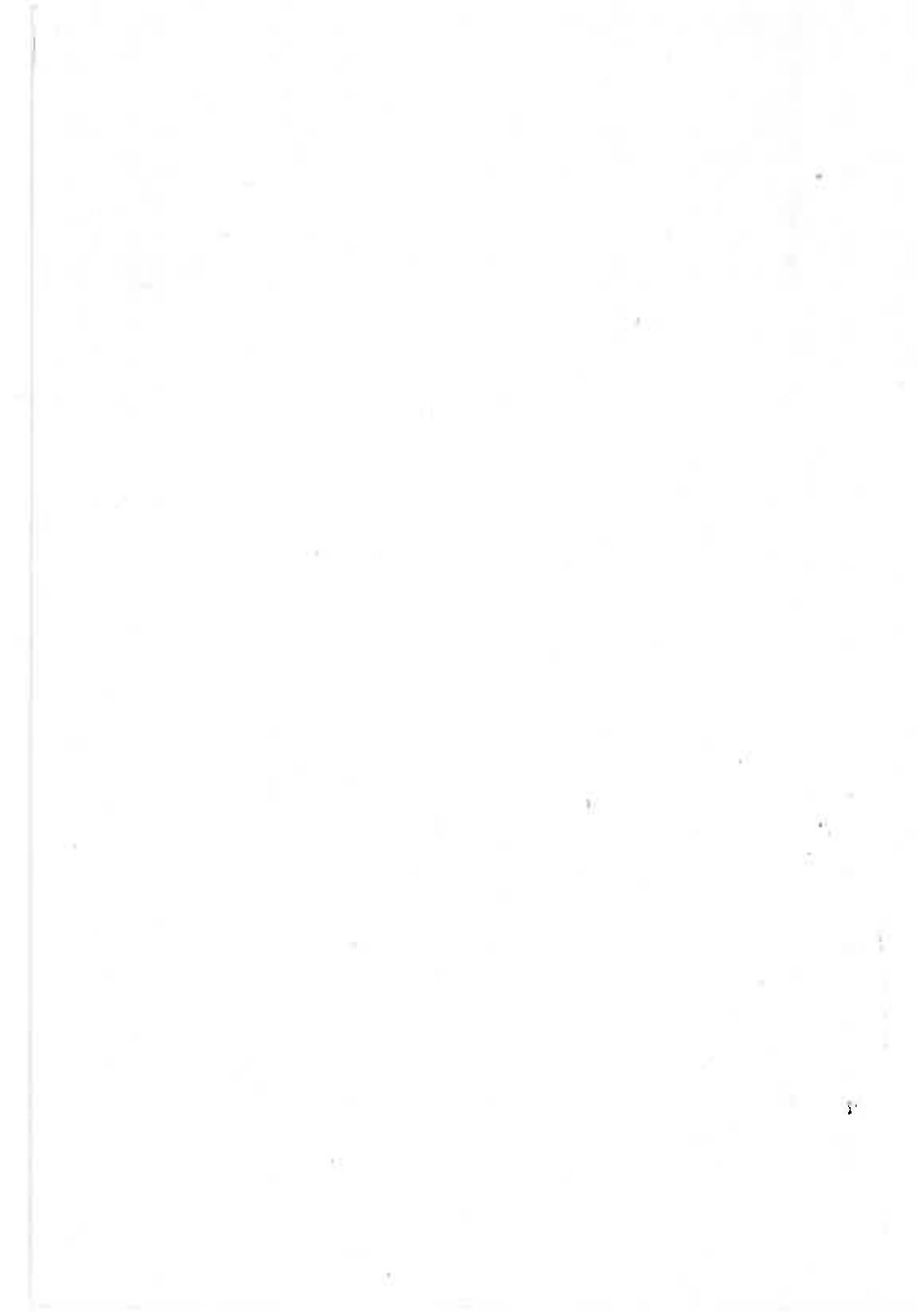
Atmospheric pressure B = 988 mbar

Resulting reduction coefficient:

k = 1,025

| | P _{OECD} | P _{RED} |
|---------------|----------------------|----------------------|
| MAXIMUM POWER | 41,88 kW (56,96 MPH) | 42,94 kW (58,40 MPH) |





the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million, and the number of people aged 75 and over has increased from 4.5 million to 6.5 million (Office for National Statistics 2000).

There is a growing awareness of the need to address the needs of older people, and the need to ensure that the health care system is able to meet the needs of older people. The Department of Health (2000) has published a strategy for older people, which sets out the government's commitment to older people and the need to ensure that the health care system is able to meet the needs of older people.

The strategy for older people (Department of Health 2000) sets out the government's commitment to older people and the need to ensure that the health care system is able to meet the needs of older people. The strategy is based on the following principles:

- Older people should be able to live independently and actively in their own homes.
- Older people should be able to access the services they need to live independently and actively in their own homes.
- Older people should be able to access the services they need to live independently and actively in their own homes.

The strategy for older people (Department of Health 2000) sets out the government's commitment to older people and the need to ensure that the health care system is able to meet the needs of older people. The strategy is based on the following principles:

- Older people should be able to live independently and actively in their own homes.
- Older people should be able to access the services they need to live independently and actively in their own homes.
- Older people should be able to access the services they need to live independently and actively in their own homes.

The strategy for older people (Department of Health 2000) sets out the government's commitment to older people and the need to ensure that the health care system is able to meet the needs of older people. The strategy is based on the following principles:

- Older people should be able to live independently and actively in their own homes.
- Older people should be able to access the services they need to live independently and actively in their own homes.
- Older people should be able to access the services they need to live independently and actively in their own homes.