O.E.C.D. Report No.: 949

Bundesanstalt für Landtechnik

A-3250 Wieselburg, Austria

Dieseltractor STEYR 377.25

Trade name:

STEYR 8130a



Date of approval: 1985 09 10

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

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Tractor manufacturer's name and address:	STEYR-DAIMLER-PUCH AG., Steyr, Austria STEYR-HELLAS ABE., Sindos, Greece
Submitted for test by:	Manufacturer
Selected for test by:	Manufacturer by agreement with BLT-Wieselburg
Place of running-in:	Steyr, Austria
Duration of running-in:	150 hours

SPECIFICATIONS OF TRACTOR

TRACTOR:

Make:	STEYR-DAIMLER-PUCH AG.
Trade name:	STEYR 8130 a
Model:	Diesel-tractor STEYR 377.25
Type:	Wheel-tractor, four-wheel driven, unit construction
Serial no.:	377.25 - 06097

ENGINE:

Make:	Own make
Model:	WD 611.88
Type:	4 stroke diesel engine with direct injection
Serial no.:	611.88 - 999

Cylinders:

Number/disposition:	6, vertical in line
Bore/stroke:	100/110 mm
Capacity:	5184 cm^3
Compression ratio:	16,2/1
Arrangement of valves:	Overhead valves
Cylinder liners:	Wet liners

Fuel system:

Capacity of fuel tank:	appr. 122 l / neu 120 l
Fuel feed system:	Fuel feed by vane pump (integrated in injection pump)
Fuel precleaner:	Optional, PUROLATOR PFC-220
Make, type and model of fuel filter:	PUROLATOR PFC-233 Filter with water trap and changeable element, filter cartridge PER 247-F

Service interval:	500 hours changing interval of filter
Make, type, model and serial number of injection pump:	BOSCH distributor injection pump VE R 172 0 460 416 032, 011 451 22 554
Manufacturer's production setting and injection timing:	55^{+0}_{-2} mm^3/stroke at 1150 rev/min and full load $12^{+0°}_{-2°}$ before TDC at 1 mm pump stroke
Make, type and model of injectors:	BOSCH or FRIEDMANN & MAIER or OMAP Multihole injection nozzles BOSCH DLLA 150 SV 13249 FRIEDMANN & MAIER D 1 LMK 150/55 OMAP OLL 150 S 9235
Injection pressure:	$21{,}6^{+0{,}5}_{-0}$ MPa (216^{+5}_{-0} bar)

Governor:

Make:	BOSCH
Type:	Variable speed governor, mechanically acting, incorporated in injection pump with manifold-pressure compensator
Model:	Compensator: 13 815 14 65 530 322
Governed range of engine speed:	From 700 to 2490^{+30}_{-0} rev/min engine speed

Rated engine speed: 2300 rev/min engine speed

Supercharging:

Make:	KÜHNLE, KOPP & KAUSCH
Type:	Exhaust type turbo-supercharger
Model:	K 26-611 6011 0050
Supercharging pressure:	max. 860 mbar

Air cleaner:

Pre-cleaner:	
Make:	MANN & HUMMEL
Type:	Cyclonic type with transparent dust container
Model:	MANN & HUMMEL 48.068.67.900
Location:	About the motor, above the bonnet
Main cleaner:	
Make:	MANN & HUMMEL or PUROLATOR
Type:	Dry type with changeable filterpaper insert
Model:	MANN & HUMMEL 45.225.65.424 or PUROLATOR LP 080 S/1
Location:	About the motor, inside the bonnet

Main filter paper insert:	MANN & HUMMEL, model C 17225/3 or PUROLATOR, model PM 1605 or KNECHT, model AG 88
Optional:	Additional safety element (paper insert) MANN & HUMMEL, model CF 800 or PUROLATOR, model AF 3100 or KNECHT, model SE 080
Service intervals:	
Cyclonic pre-cleaner:	Cleaning interval: 500 hours and visual control
Main cleaner paper insert:	Cleaning interval: when control-lamp indication Changing interval: 2000 hours or 1 year
Safety element:	Changing interval: after 5 main-cleaner paper inserts, 2 years, or if main-cleaner was defect
Maintenance indicator:	Electric lamp indication, -85 mbar for indication, PUROLATOR LES 085 IP

Lubrication system:

Type of feed pump:	EATON pump forced lubrication
Total oil capacity including filter:	appr. 10 l
Oil change period:	250 hours
Type of filter:	One paper filter cartridge in full flow, MANN W 940 or PUROLATOR PC 31 or KNECHT FO 371/12
Filter change period:	250 hours
Recommended oil:	See paragraph: Fuel and lubricants used in tests

Cooling system:

Type of coolant:	Water with longtime frost protection down to -20°C in a cooling system with a tubular radiator
Specification of pump:	Centrifugal pump with double circuit water cooling
Type:	Own make, centrifugal pump, 2 driving belts
Specification of fan:	7 blade fan (dia 460 mm, 2 belts driven)
Coolant capacity:	appr. 18 l (with cab heating 20 l)
Type of temperature control:	Thermostat control with electrical cooling water thermometer
Superpressure system:	Max. 50 kPa (0,5 bar)

Starting system:

Safety device:	Optional
Make:	Own make
Type:	Electrically starting block system by engaged gear
Model and starter motor power rating:	BOSCH, solenoid engaged starter motor 12 V, 3 kW, 001 359 108

Cold starting aid:	Electrically, 2 glow plugs in intake pipe BERU, model 184 G (0 102 024 402 11 V) BOSCH, model A 250 00 1088

Electrical system:

Voltage:	12 V, negativ earth
Generator:	Make: BOSCH 0120 339 526 0120 488 114 Type: three-phase type G 1 - 14 V 28 A 22 Power: 14 V, 28 A = 392 W 14V, 55A, 770W
Battery:	1 with 12 V, lead acid type Rating: 143 Ah at 20 hours rating

Exhaust system:

Make:	EBERSPÄCHER
Type:	Absorptions-reflexion type
Model:	EBERSPÄCHER 16.475.76.01.000 or STEYR-replacement no. 377 0054 0004
Location:	130 mm on the left side of the engine; mouth upwards, 2622 mm above ground
Dimensions of silencer body:	1130 mm length, diameter of silencer 213 mm, diameter of exhaust pipe 70 mm

TRANSMISSION:

Clutch:

Main clutch:	For travel alone
Make:	FICHTEL & SACHS AG.
Type:	Single plate dry clutch
Model:	F & S G 350 KR
Number of plates:	1
Diameter of plates:	350 mm
Method of operation:	Operated by pedal
P.t.o. clutch:	
Make:	KLÖCKNER-HUMBOLDT-DEUTZ
Type:	Wet multiplate clutch, overload function, hydraulically engaged
Model:	ORTLINGHAUS
Number of plates:	9
Diameter of plates:	132 mm
Method of operation:	Push botton hand-switch operated

Front-wheel drive clutch:	
Make:	STEYR
Type:	Wet multi-plate clutch, hydraulically engaged
Number of plates:	21
Diameter of plates:	135 mm
Method of operation:	Hand-switched operated

Gearbox:

Make:	KLÖCKNER-HUMBOLDT-DEUTZ
Type:	Mechanically acting gear box
Model:	TW 903
Normal model:	As tested, 40 km/h model Group gear with 3 forward and 1 reverse group combined with synchronised 6 speed change gear. Totally: 18 forward and 6 reverse speeds 30 km/h model with synchronised 5 speed change gear Totally: 15 forward and 5 reverse speeds
Model with super crawler group:	Optional 4th forward group of group gear Spur gear reduction: 19,075 Totally: 24 forward and 6 reverse speeds
Model with torque amplifier group:	Optional Gear reduction with wet multi-plate clutches, electrically - hydraulically activated Speed reduction: 1 : 0,87 Totally (with all options): 48 forward and 12 reverse speeds
Arrangement:	1 lever for group gear (VL, VZ, VS, R) and super crawler group 1 lever for the 6 speed gear (1 - 6) 1 push botton switch for torque amplifier group

Rear axle and final drives:

Make:	KLÖCKNER-HUMBOLDT-DEUTZ
Type:	Central axle with spur gear transmission from differential Pinion and bevel gear, bevel gear differential, spur gear to half shafts, acting on the rear wheels
Model:	TW 903
Differential lock:	Type: mechanically acting from half shaft to half shaft Method of engagement: foot lever operated, lockable and preselectable Method of disengagement: selfdisengaging

Front axle and final drives:

Make:	SIGE or ZF-PASSAU
Type:	Steering and driving axle, central type, integrated steering cylinder Driving shaft, pinion and bevel gear, bevel gear differential, half shafts, universal joints, planetary gears in wheel hubs Front wheel drive: hydraulically engaged, hand switch operated
Model:	SIGE 002 or ZF-APL 335
Optional:	ZF-APL 335 with dry-disc-brakes or SIGE 002 with integrated wet multi-plate brakes
Optional:	Automatically locking differential ZF-PASSAU: multi-plate-clutch-type SIGE-MAILAND: no-spin-type

Switching aid:

Make:	Own make
Type:	Own oil circuit with BOSCH gear pump, directly driven by engine; oil supply common with gear box and rear axle. Aid for switching front wheel drive clutch, p.t.o. clutch and optional equipment (i.e. torque amplifier group) switching. Working pressure: $1{,}8^{+0.2}_{-0}$ MPa (18^{+2}_{-0} bar) Delivery rate: 22 l/min at 2300 rev/min of engine Common filter with hydraulic power lift circuit

Transmission oils:

Capacity:	
Gear box and rear axle:	38 l, MIL-L-2105, SAE 80 W, API GL-4
Oil changing period:	2000 hours or 2 years
Front axle:	
Front axle differential:	appr. 5,7 l MIL-L-2105 B/C, SAE 90, 85 W 90, API GL-5
Front axle final drives:	appr. 2 x 0,8 l MIL-L-2105 B/C, SAE 90, 85 W 90, API GL-5
Oil changing period:	1000 hours or 2 years
Changing interval of filter in suction line:	1000 hours or 2 years

Total ratios and speeds:

Group	Gear No.	Number of engine revolutions for one revolution of driving wheels	Nominal travelling speed at rated engine speed of 2300 rev/min *) km/h
forward super crawler K	1 **)	1596,20	0,42
	2 **)	1186,37	0,56
	3 **)	938,31	0,71
	4 **)	647,11	1,03
	5 **)	527,27	1,27
	6 **)	417,49	1,60
forward slow L	1	298,86	2,23
	2	222,13	3,01
	3	175,68	3,80
	4	121,16	5,51
	5	98,72	6,76
	6	78,17	8,54
forward medium M	1	144,54	4,62
	2	107,43	6,21
	3	84,97	7,86
	4	58,60	11,39
	5	47,75	13,98
	6	37,80	17,66
forward fast S	1	71,00	9,40
	2	52,77	12,65
	3	41,74	16,00
	4	28,78	23,19
	5	23,45	28,47
	6	18,57	35,95
reverse R	1	154,81	4,31
	2	115,06	5,80
	3	91,00	7,34
	4	62,76	10,64
	5	51,14	13,06
	6	40,49	16,49

*) Calculated with tyre index radius of 770 mm and test tyre equipment: 18,4/15 - 34 AS

**) Optional, not on tested tractor

POWER TAKE-OFF:

2 p.t.o. shafts, at rear of tractor, 50 mm right and left of median plane, 525,5 mm behind rear axle
615/600 mm above ground (764 mm stat. tyre radius)

Dimensions:
Right of median plane: 540 rev/min p.t.o., Type 1 (35 mm, 6 splines)
Left of median plane: 1000 rev/min p.t.o., Type 2 (35 mm, 21 splines)

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

Common driven by hydraulically engaged wet multi-plate clutch, spur gear transmission, p.t.o. shafts

Speeds:
540/ 604 rev/min at 2057/2300 rev/min engine speed
1000/1110 rev/min at 2071/2300 rev/min engine speed

Transmission ratio: 3,81 resp. 2,07

Engine speed resp. p.t.o. speed indication by needle instrument

Direction of rotation: clockwise viewed from driving end

Front p.t.o.:

Optional, not on tested tractor
Forward direction; in the median plane of the tractor, 646 mm above ground, 659 mm before front axle
Driven in direct line by the crankshaft of the engine
No power restriction

Speed:
1000/1110 rev/min at 2072/2300 rev/min engine speed

Direction of rotation: anticlockwise viewed from the driving end

Transmission ratio: 2,07

POWER LIFT:

In the rear:

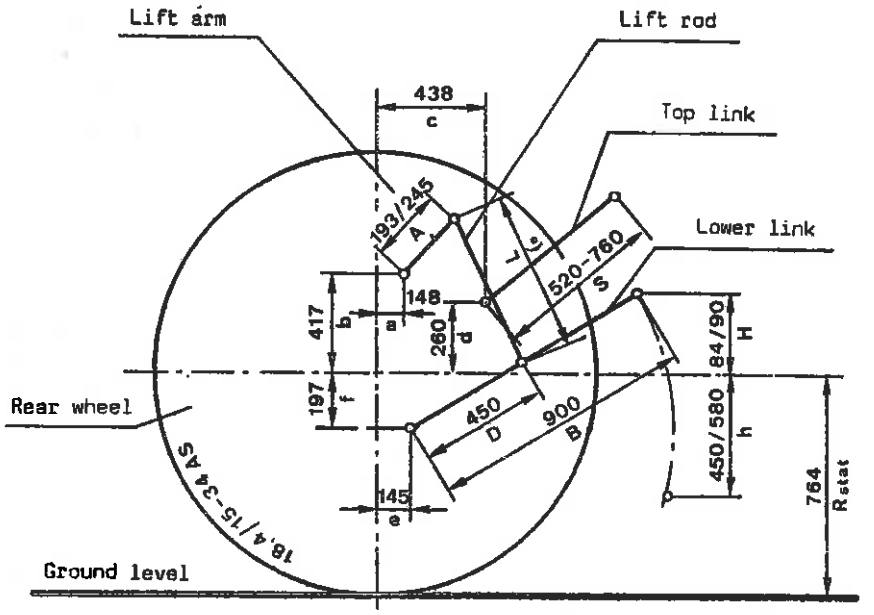
Make:	Own make
Type:	Open center type, draught control with two-stage pull adjustment and lower link sensing, position control, floating position
Type and number of cylinder:	Single acting hydraulic cylinder, stroke and diameter: 160/105 mm and two additional single acting working cylinders, dia 50 mm
Type of linkage lock for transport:	Hydraulically by throttle valve
Relief valve pressure setting:	17,5 MPa (175 bar)

Opening pressure of cylinder safety valve:	24,5 MPa (245 bar)
Lift pump type:	Gear type pump
Pump delivery rate at minimum pressure:	41 l/min at 2300 rev/min engine speed Optional: 48 l/min at 2300 rev/min engine speed
Transmission between pump and engine:	Pump directly driven by engine by gear transmissions
Type and number of filter:	One filter cartridge in the suction part
Time between oil and filter changes:	1000 hours
Oil capacity:	16 l; or optional additional 2 x 16 l
Site of oil reservoir:	Hydraulicblock - unit Optional:Additional oil tanks in the mudguards
Type and number of tapping points:	Up to 6 tapping points (3 independent oil circuits for double acting cylinders)
Location of tapping points:	540 mm behind rear axle, 475 - 580 mm about rear axle, 150 mm right of median plane In accordance to ISO/DIS 5675
Maximum volume of oil available to external cylinders:	6 l in stationary and driving mode with optional additional tanks: 38 l
Recommended oil:	ISO VG 46 HLP ISO VG 48 HLP
Optional:	On tested tractor WALTERSCHEID linkage quick coupler, category II
In the front:	
Optional:	Not on tested tractor Three point linkage, category II, open center type 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

THREE-POINT-LINKAGE:

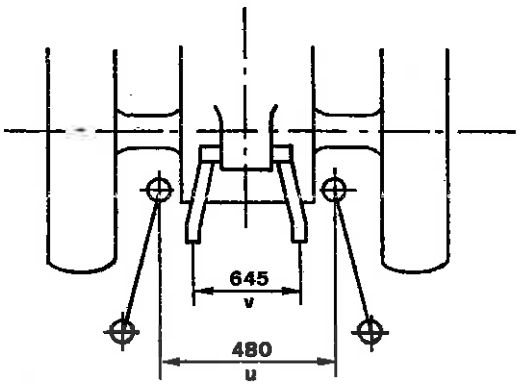
In the rear:	Category II, in conformity to ISO 730/1 "STEYR SIMPLEMATIK" standard linkage, double hole lift arms
In the front:	Not on tested tractor Category II

Figures of power lift:



*) Basis adjustment: both lift rods 722,5 mm
Max./min. mechanical advantage

Right lift rod length adjustable from 645 - 755 mm by gear and thread
Left lift rod length adjustable from 665 - 770 mm by a thread



HOLED DRAWBAR: Fitted in the clevis of the lower links of the three point linkage, category II

Height above ground *)	Min.lift rod length (665 mm)	Max.lift rod length (770 mm)	Vertical movement
Max.mech.advantage Liftarm 193 mm	from 453 to 955 mm	from 205 to 755 mm	502/550 mm
Min.mech.advantage Liftarm 245 mm	from 324 to 955 mm	from 80 to 755 mm	631/675 mm

Dimensions		Category II
Length	mm	825
Width	mm	80
Thickness	mm	30
Number of holes (with central hole)		7
Hole diameter	mm	33
Distance between holes	mm	115

*) Calculated with tyre stat. radius of 764 mm

Method of changing: By power lift, lift rod length and changing the lift rod - lift arm coupling point

Distance to rear axle: 1045 mm, lower links 900 mm horizontally

Horizontal distance to power take-off shaft end (rear): 520 mm

TRAILER HITCH:

	ROCKINGER, model 274 RA
	and
	ROCKINGER, model 248 RB
Type:	Fork type
Height above ground:	914/864/814/764/714/589/493/416 mm
Distance of hitch point from rear axle axis horizontally:	702 mm
Distance of hitch point from power take-off shaft end:	
vertically:	308/293 mm
horizontally:	rearwards 176 mm
Diameter of coupling pin:	31 mm
Maximum vertical permissible load:	15 kN

or

	Own make
Type:	Fork type
Height above ground:	888/858/818/798 mm
Distance of hitch point from rear axle axis horizontally:	668 mm
Distance of hitch point from power take-off shaft end:	
vertically:	282/267 mm
horizontally:	rearwards 142 mm
Diameter of coupling pin:	31 mm
Maximum vertical permissible load:	15 kN

or

	ROCKINGER, model 248 U 140 BA (~~ M 4141)
Type:	Fork type
Height above ground:	888/858/818/788 mm
Distance of hitch point from rear axle axis horizontally:	663 mm

Distance of hitch point from power take-off shaft end:	
vertically:	282/267 mm
horizontally:	rearwards 138 mm
Diameter of coupling pin:	30 mm
Maximum vertical permissible load:	15 kN

or

	ROCKINGER, model 248 JB (∿∿M 4121)
Type:	Fork type
Height above ground:	931/863/829/779/747/679/645/595 mm
Distance of hitch point from rear axle axis horizontally:	672 mm
Distance of hitch point from power take-off shaft end:	
vertically:	325/310 mm
horizontally:	rearwards 147 mm
Diameter of coupling pin:	30 mm
Maximum vertical permissible load:	15 kN

or

	ROCKINGER, model 273 JB (∿∿M 4097)
Type:	Fork type
Height above ground:	926/868/824/784/742/684/640/600 mm
Distance of hitch point from rear axle axis horizontally:	672 mm
Distance of hitch point from power take-off shaft end:	
vertically:	320/305 mm
horizontally:	rearwards 147 mm
Diameter of coupling pin:	30 mm
Maximum vertical permissible load:	15 kN

or

	Own make
Type:	Fork type
Height above ground:	883/863/813/793/450/430/415/395 mm
Distance of hitch point from rear axle axis horizontally:	603 mm
Distance of hitch point from power take-off shaft end:	
vertically:	277/262 mm
horizontally:	rearwards 78 mm
Diameter of coupling pin:	28 mm
Maximum vertical permissible load:	15 kN

TOWING HITCH:

Type:	Fork type
Height above ground:	820 mm
Distance from front axle:	frontwards from 424 mm to 1054 mm (dependent from number of front ballast)
Diameter of coupling pin:	32 mm

STEERING:

Method of operation:	Steering wheel acting on front wheels
Make:	ZF-SCHWÄBISCH GMÜND or DANFOSS
Type:	Hydrostatic steering
Model:	ZF 8492 or DANFOSS OSPC 125 OR
Working pressure:	10,0 MPa (100 bar)
Oil capacity:	3,6 l
Capacity of oil case:	1,2 l and 0,15 l for distress
Oil change period:	-
Filter:	STEYR 295 47 07 02 ZF 76 33 141 101
Filter change period:	1000 hours
Recommended oil:	ATF Dexron D
Pump delivery rate at rated engine speed (2300 rev/min):	33 l/min
Steering cylinder:	One double acting cylinder, integrated in block of front axle, formed as a part of the steering connection rod

Acting piston area:	ZF APL 335: 20,2 cm^2 SIGE 002: 20,6 cm^2
Number of revolutions of steering wheel for the whole steering lock:	3,25

BRAKES:

Service brake:

Make:	TEVES and own make
Type:	Dry disc brake, acting on differential shafts, 275 mm diameter, 2 brake calipers each, combined with "STEYR-Optistop"
Optistop:	Electrically-hydraulically activated four wheel drive clutch when service brake is operated. Front axle is connected with the rear axle (brakes) when there is a failure in the hydraulic or (resp. and) electric circuit Diameter of brake disc: 275 mm Acting diameter of brake discs: 210 mm
Method of operation:	Pedal operated, hydraulically transmission
Trailer braking take-off:	Optional, on tested tractor In conformity with national regulations Pressure air system: High pressure air system, one or one and two (three) line system, air compressor V-belt driven Storage pressure: $1{,}8^{+0{,}2}_{-0}$ MPa (18^{+2}_{-0} bar) Storage volume: 20 l Working pressure: 0,72 MPa (7,2 bar)

Parking brake:

Make:	TEVES
Type:	Mechanically acting on separate drum brakes 180 mm diameter, 60 mm width
Method of operation:	Hand lever with ratched, mechanically transmission

Steering assistance brake:	Operated by divided pedal of service brake, pedals disconnectable by a flap

STEERING WHEELS:

Number:	2, steering and driving function
Location:	In front of tractor
Tyres:	Pneumatics, radial carcass 13,6 R 24 AS, 8 PR; rim: W 11 x 24 Maximum permissible load on each tyre: 15160 N (1545 kp) at 2,0 bar inflation pressure 21220 N (2163 kp) at 2,5 bar inflation pressure with speed limit of 8 km/h

Track widths:	1695 mm (1860 mm by reversed wheels), with adjustable rims: 1637 - 2011 mm
Optional front tyre equipment:	11,2 - 28 AS, 6 PR; rim: W 10 x 28 12,4 - 28 AS, 6 PR; rim: W 10 x 28 13,6 - 28 AS, 8 PR; rim: W 11 x 28 14,9 - 24 AS, 8 PR; rim: W 11 x 24

DRIVING WHEELS:

Number:	2, driving function
Location:	In the rear of tractor
Tyres:	Pneumatics, radial or diagonal carcass 18,4 - 34 AS, 8 PR; rim: DW 16 x 34 Maximum permissible load on each tyre: 25160 N (2565 kp) at 1,4 bar inflation pressure 35225 N (3591 kp) at 1,75 bar inflation pressure with speed limit of 8 km/h
Track widths:	1790 mm (1860 mm by reversed wheels), with adjustable rims: 1637 - 2149 mm
Optional rear tyre equipment:	16,9 - 38 AS, 8 PR; rim: W 15 L x 38 18,4 - 38 AS, 8 PR; rim: W 16 L x 38

WHEELBASE: 2597 mm

PROTECTIVE STRUCTURE SPECIFICATIONS:

OECD-approval number:	CSD 0935/1-a (C) CSD 0906-1/7
Trade name:	model STEYR 110.11 770.01
Manufacturer's name and address:	STEYR-DAIMLER-PUCH AG., Steyr, Austria
Protective device:	Frame, completeable to full closed cab,not tilting Strength tested to national legislation (identical to OECD-Code)

Materials used in the construction and dimensions:

Main frame:	Welded sheet construction with integrated pressed sheet metal roof
Mounting:	Rubber mounted, in front on consoles, in the rear on the rear axle
Cladding:	Protective structure is fitted only with the front windscreen. When completed to a full cab the side claddings are glassdoors with a metal frame and turnable full glass side windows. The rear cladding is a windscreen which can be turned out.
Roof:	Sheet metal roof, integrated in the protective structure

Padding:	Floor: rubber mat Side mudguards: foam rubber cladding Roof: cladding with synthetic material
Type of windscreen:	SEKURIT ESH-H E6 43 R-00125, testing no. E-00070

DRIVER'S SEAT:

Make and type:	Grammer DS 84 H/3; tested on tractor according to national regulation (Prot.Nr. 136/78)
Type of suspension:	X-lever with 2 tension springs, curve-disc and ball-bearing, adjustable to driver's weight
Type of damping:	Hydraulically damping
Range of adjustment, longitudinal: vertical:	 140 mm 60 mm

or

Make and type:	Bostrom XH 2 TS 2; tested on tractor according to national regulation (Prot.Nr. 132/78)
Type of suspension:	X-lever with torsion springs, adjustable to driver's weight
Type of damping:	Hydraulically damping
Range of adjustment, longitudinal: vertical:	 140 mm 70 mm

or

Make and type:	As on tested tractor Klepp Elastomat 1050 H-S; according to national regulation (Prot.Nr. 118/81)
Type of suspension:	2 parallel levers with a column-guiding and 2 tension springs
Type of damping:	Hydraulically damping
Range of adjustment, longitudinal: vertical:	 85 mm 60 mm

LIGHTING: Unrestricted beam angle of head light in plane view: 227 mrad (13°)

	*) Height above ground of centre mm	Size mm	**) Distance from outside edge of tractor to centre mm
Head lights	1075	135 x 115	975
Side lights	1650 1570	40x 120 65 x 70	310 345
Rear lights Brake lights	1630	65 x70	310
Direction indicators front	1570	65 x 70	220
Direction indicators rear	1610 1630	40 x 20 65 x 70	220 345
Reflectors	1630 710	35 x 60 80 dia	265 710

*) Measured with tyre stat. radius at rear 764 mm and 544 mm at front
**) With overall width of 2245 mm (measured on the outside edge of the rear wheels)

TEST CONDITIONS

Track setting and tyre equipment:

Front: 1695 mm
Rear: 1790 mm

Front wheels: 13,6 R 24 AS, 8 PR; rim: W 11 x 24
Rear wheels: 18,4 - 34 AS, 8 PR; rim: DW 16 x 34

Overall dimensions:

	Length	Width *)		Height at top of	
		min.	max.	exhaust silencer	protective structure
	mm	mm	mm	mm	mm
With ballast	4685	2060	2285	2575/2710	2620 **)
Without ballast	4300	2060	2245	2575/2710	2620 **)

*) Measured on the outside edges of the rear wheels
**) Cabine fitted with roof hatch

Ground clearance:

Clearance-limiting part:

330 mm under the trailer hitch mounting console
415 mm below the gear box
425 mm below front axle differential

Tractor mass and ballasting:

(without driver but with tanks full, with full cab)

		Front	Rear	Total
Without ballast	kg	1456	2788	4244
With ballast	kg	2365	3750	6115

Ballast:

	Weights		Water kg
	Number	Total mass kg	
Front	15	521	2 x 140
Rear	4 + 1	2 x 235	2 x 300
Additional	-	-	-

Fuel and lubricants used in tests:

Fuel:	Diesel fuel	
Type:	ELAN according to DIN 51601	
Specific gravity at 15°C:	0,835 kg/l	

Oil:

	Recommended:	Used during test:
Engine oil:	One range viscosity oil	
Type:	API CD, MIL-L-2104 C	SHELL RIMULA X 10 W
Viscosity:	SAE 30 summer SAE 20 W/20 winter	
Transmission oils:		
Type:	API GL 4, MIL-L-2105	SHELL SPIRAX EP 80
Viscosity:	SAE 80 W	
Hydraulic fluid:		
Type:	ISO VG 46 HLP ISO VG 68 HLP	SHELL TELLUS 46
Steering oil:	Automatic Transmission Fluid	
Type:	ATF Dexron or ATF M 2 C 33 E/F	SHELL ATF Dexron II
Transmission oil of front axle:		
Type:	API GL 5, MIL-L-2105 B	SHELL SPIRAX EP 90
Viscosity:	SAE 90 W	
Recommended grease:	Lithium soap basis NLGI2 (multigrade grease)	
Number of lubrication points:	16	

TEST RESULTS

COMPULSORY TEST:

Main power take-off performance

Date and location of tests: 29.5.1985, Wieselburg, Austria
Type of dynamometer: SCHENK eddy-current brake, Typ W 780

Main test on: ISO R 500, Typ 2 (DIN 9611) - 1000 rev/min p.t.o.

Power	Speed		Fuel consumption		Specific energy
	engine	p.t.o.	hourly	specific	
kW	rev/min	rev/min	kg/h l/h	g/kWh	kWh/l
MAXIMUM POWER					
Maximum power - 2 hours test					
74,99	2300	1110	19,05 22,81	254	3,287
Standard p.t.o. speed					
74,00	2071	1000	17,59 21,07	238	3,512
The speed recommended by the manufacturer for drawbar work					
74,99	2300	1110	19,05 22,81	254	3,287
PART LOADS Governor hand lever in position giving maximum power					
(i) 85 % of torque at maximum power					
65,52	2364	1142	17,53 20,99	267,5	3,120
(ii) unloaded					
0	2501	1208	5,75 6,89	-	-
(iii) 50 % of the load defined in (i)					
33,65	2428	1173	11,37 13,62	338	2,471
(iv) maximum power					
74,99	2300	1110	19,05 22,81	254	3,287
(v) 25 % of the load defined in (i)					
17,05	2461	1189	8,43 10,09	494	1,690
(vi) 75 % of the load defined in (i)					
49,91	2401	1160	14,42 17,27	289	2,890

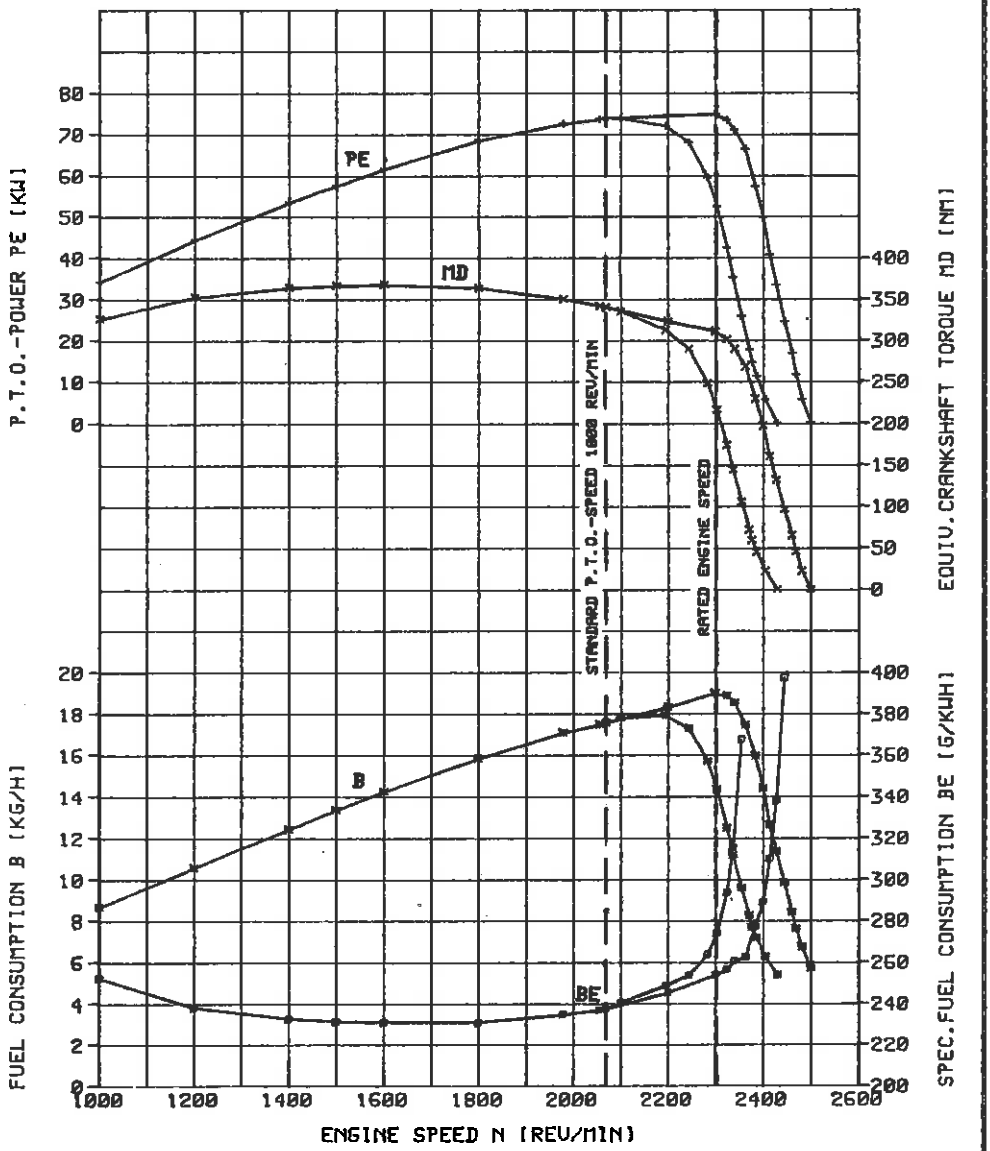
Power	Speed		Fuel consumption		Specific energy
	engine	p.t.o.	hourly	specific	
kW	rev/min	rev/min	kg/h l/h	g/kWh	kWh/l
PART LOADS Governor hand lever in position giving standard p.t.o. speed at full load					
(i) 85 % at torque at standard p.t.o. speed					
68,18	2244	1084	17,33 20,75	254	3,285
(ii) unloaded					
0	2430	1174	5,41 6,48	-	-
(iii) 50 % of the load defined in (i)					
35,51	2337	1129	11,22 13,44	316	2,643
(iv) maximum power at standard p.t.o. speed					
74,00	2071	1000	17,59 21,07	238	3,512
(v) 25 % of the load defined in (i)					
18,02	2372	1146	8,27 9,91	459	1,819
(vi) 75 % of the load defined in (i)					
52,51	2304	1113	14,39 17,23	274	3,048
STANDARD SPECIFIC FUEL CONSUMPTION: 267,5/338 - 254/316 g/kWh					

No load maximum engine speed: 2501 rev/min
Equivalent crankshaft torque
at maximum power: 311,4 Nm MD 1000 = 327 Nm
Maximum equivalent crankshaft torque: 368,6 Nm at 1600 rev/min of engine

Mean atmospheric conditions: temperature: 21°C
pressure: 987 mbar
humidity: 61 %

Maximum temperatures: coolant: 89°C
engine oil: 119°C
fuel: 57°C
air intake: 23°C

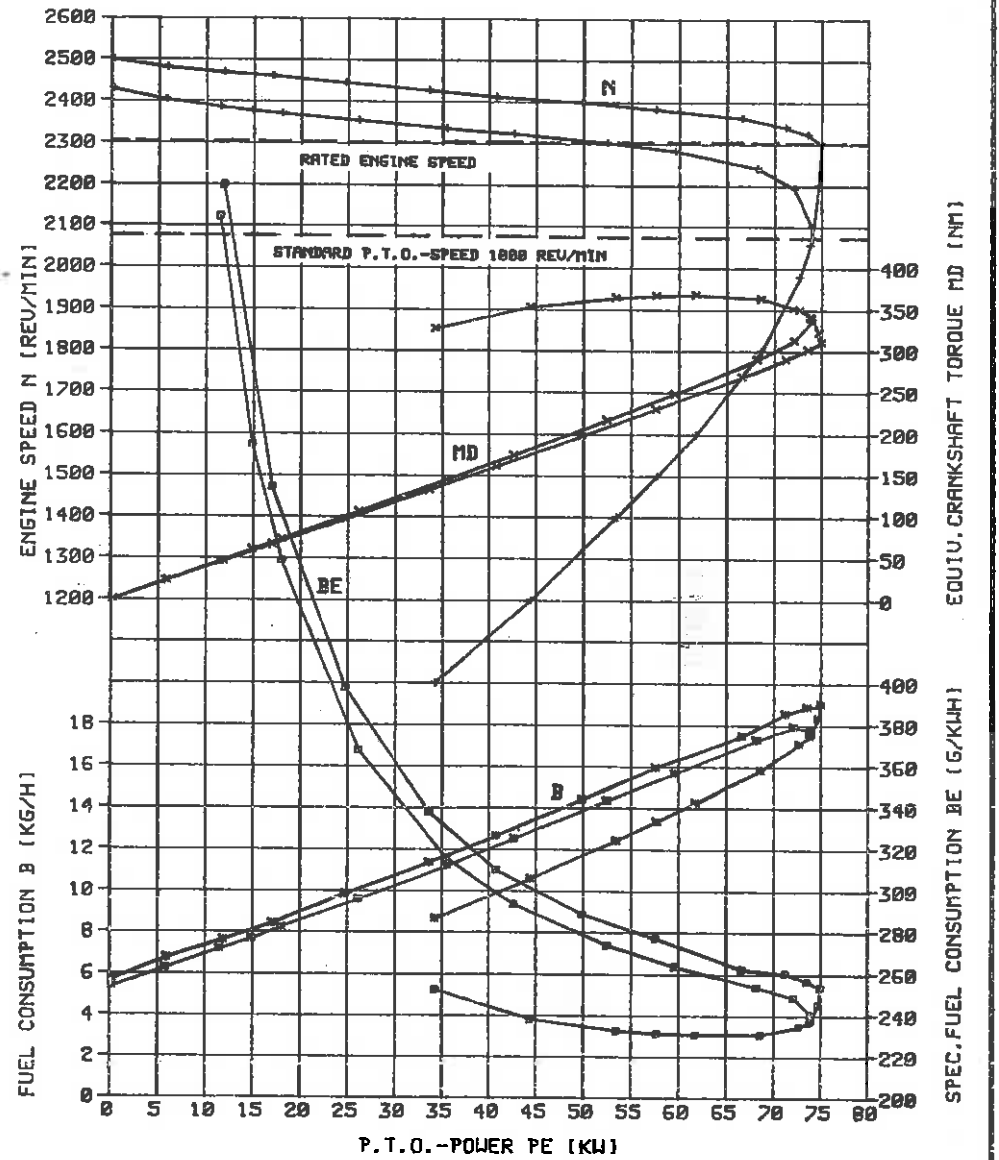
BUNDESANSTALT FUER LANDTECHNIK WIESELBURG/ERLAUF, AUSTRIA PROT.NR.: 127/85	P.T.O.-TEST 1000 rev/min	STEYR TYP 8130A (377.25) MOT.TYP WD 611.88



ENGINE SER.NR.: 611.88-999	ATM.PRESSURE : 987 MBAR	FUEL TEMP.: 58 C	SIGNATURE
TRACTOR SER.NR.: 377.25-86097	AIR TEMPER. : 17 C	D.OF TESTS: 1985-05-29	
FUEL : 0.830/15 C	COOLANT TEMP.: 86 C	TEST NO. : 145/M180	
ENGINE OIL : RIMULA X 10 W	OIL TEMP. : 117 C	CURVES NO.: 1	REITHER

17-JUL-85 DUR.: 0100846-DL883;MRU120,MKL20-2E

BUNDESANSTALT FUER LANDTECHNIK WIESELBURG/ERLAUF, AUSTRIA PROT.NR.: 127/85	P.T.O.-TEST 1000 rev/min	STEYR TYP 8130A (377.25) MOT.TYP WD 611.88



ENGINE SER.NR.: 611.88-999	ATM.PRESSURE : 987 MBAR	FUEL TEMP.: 58 C	SIGNATURE
TRACTOR SER.NR.: 377.25-86857	AIR TEMPER. : 17 C	D.OF TESTS: 1985-05-29	
FUEL : 0.838/15 C	COOLANT TEMP.: 86 C	TEST NO. : 145/M188	
ENGINE OIL : RIMULA X 10 W	OIL TEMP. : 117 C	CURVES NO.: 2	REITHER

17-JUL-85 DUR.:0100846-DL863.MKU128.MKL28-22

Drawbar performance

Date of tests: 3. - 5.6.1985
Type of track: Concrete
Height of drawbar above ground: 400 mm ballasted and unballasted

Gear No.	Speed	Power	Drawbar pull	Engine speed	Slip of wheels	Specific fuel consumption	Specific energy	Temperatures			Atmosph. conditions		
								Fuel	Coolant	Engine oil	Temperature	rel.humidity	Pressure
	km/h	kW	N	rev/min	%	g/kWh	kWh/l	°C	°C	°C	°C	%	mbar
(i) Maximum power (unballasted) tyre inflation pressure in the front 0,9 bar, in the rear 1,1 bar													
L 3	3,417	40,43	42599	2390	15	385	2,169	52	80	110	22	60	987
M 1	4,110	48,63	42602	2365	15	358,5	2,329	52	80	109	22	66	987
L 4	4,852	57,42	42600	2340	15	324	2,577	52	82	108	22	63	987
M 2	5,601	62,09	39909	2300	11,5	305	2,737	51	82	106	21	68	987
L 5	6,267	63,59	36532	2300	9	298	2,802	50	81	105	22	68	987
M 3	7,439	64,60	31263	2300	7	293	2,850	50	81	104	21	69	987
L 6	8,157	64,79	28592	2300	6,2	292,5	2,854	49	81	103	21	68	987
S 1	9,049	64,79	25776	2300	5,5	292,5	2,854	48	80	102	21	68	987
M 4	11,078	64,30	20894	2300	4,5	294,5	2,835	47	80	101	21	68	987
S 2	12,355	63,81	18592	2300	4,1	297	2,811	46	79	100	21	67	987
M 5	13,710	63,19	16592	2300	3,7	299,5	2,788	45	78	98	21	65	987

Gear No.	Speed	Power	Drawbar pull	Engine speed	Slip of wheels	Specific fuel consumption	Specific energy	Temperatures			Atmosph.conditions		
								Fuel	Coolant	Engine oil	Temperature	rel.humidity	Pressure
	km/h	kW	N	rev/min	%	g/kWh	kWh/l	°C	°C	°C	°C	%	mbar
(ii) Five-hour-test at 75 % of pull at maximum power													
M 3	7,920	52,31	23776	2372	3,5	325	2,569	68	84	114	26	58	985
(iii) Five-hour-test at pull corresponding to 15 % wheelslip in test (ii)													
L 3	3,338	55,71	60086	2352	15	326,5	2,557	70	88	118	31	52	982
(iv) Maximum power (ballasted) tyre inflation pressure in the front 1,3 bar, in the rear 1,1 bar													
L 1	2,007	33,50	60095	2404	15	-	-	45	76	106	15	89	990
L 2	2,677	44,70	60100	2386	15	355,5	2,349	44	76	105	15	88	990
L 3	3,335	55,68	60099	2350	15	328	2,546	45	76	106	15	87	990
M 1	4,161	62,65	54200	2300	10,9	302	2,765	47	77	107	16	85	990
L 4	5,125	65,48	46000	2300	8	289	2,889	47	78	108	15	82	990
M 2	5,869	66,25	40640	2300	6,6	286	2,919	44	77	106	15	80	990
L 5	6,441	66,49	37166	2300	5,8	285	2,930	44	77	105	15	80	990
M 3	7,563	66,59	31698	2300	4,8	284,5	2,935	44	78	105	15	80	990
L 6	8,272	66,31	28858	2300	4,2	285,5	2,925	45	77	105	15	84	990
S 1	9,145	66,09	26018	2300	3,8	286,5	2,914	44	77	105	18	86	990
M 4	11,161	64,89	20930	2300	3,1	292	2,860	46	78	106	15	88	990
S 2	12,433	63,61	18417	2300	2,8	297,5	2,807	46	78	107	15	85	990
M 5	13,767	62,11	16242	2300	2,6	305	2,738	46	79	107	15	81	990

Total oil consumption during 10 hours duration of tests (ii) and (iii): 83 g/h

TURNING SPACE AND TURNING CIRCLE:

Wheel equipment: front: 13,6 R 24 AS, 8 PR; rim: W 11 x 24
rear: 18,4 - 34 AS, 8 PR; rim: DW 16 x 34

Track of wheel: front: 1680 mm
rear: 1790 mm

Results *)	With brakes		Without brakes	
	right-hand	left-hand	right-hand	left-hand
	m	m	m	m
Radius of turning space	6,45/6,40	5,90/6,35	5,90/5,37	6,02/5,47
Radius of turning circle	6,27/6,25	5,72/6,20	5,75/5,20	5,85/5,30

*) Four-wheel drive switched: ON/OFF

LOCATION OF CENTRE OF GRAVITY:

	mm
Height above ground	998
Distance forward from the vertical plane containing the axis of the rear wheels	884
Distance from the median plane of the tractor	to left 4

BRAKING:

Date of test: 10.6.1985
Type of track: Concrete
Type of decelerometer: Moto-Meter No. 03382 (Kombi-Schreiber)

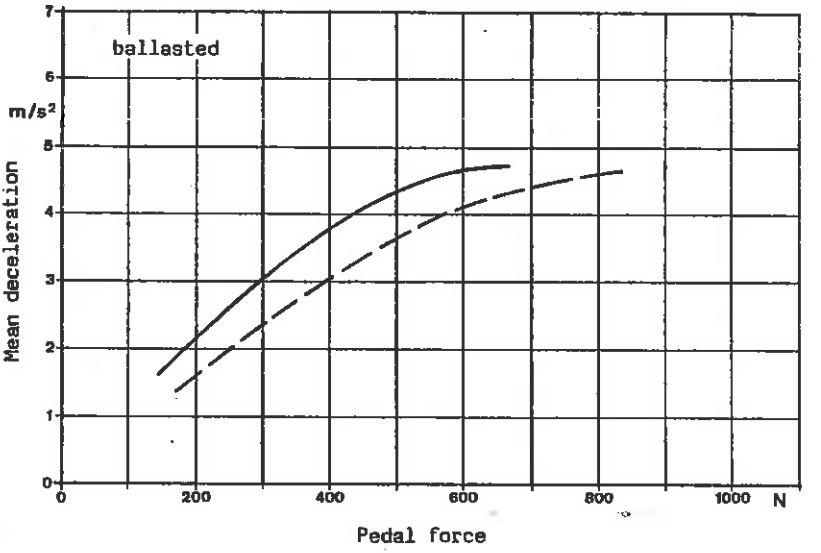
Tractor mass during brake tests (with driver):

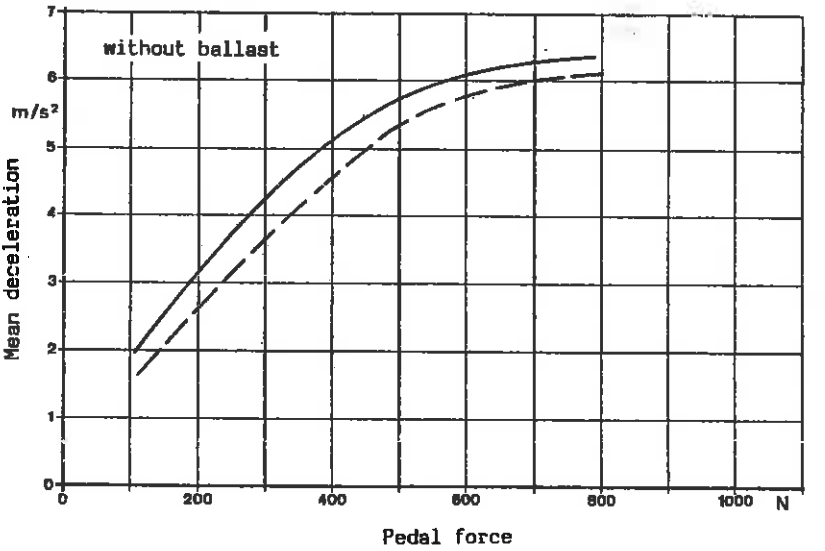
	Front kg	Rear kg	Total kg
Ballasted	1471	2848	4319
Unballasted	2380	3810	6190

Service brake:

Tractor fitted with Optistop braking system (electrically - hydraulically activated front wheel drive clutch, when service brake is operated).

Type-0-test (cold brakes) ———— , Type-I (fade) test — — — — —





Speed before application of brakes: 38 km/h
The tractor brakes were heated by towing of the tractor for 1 km.

Maximum deviation of tractor from its original course: None

Abnormal vibration: None

Parking brake device test:

	Ballasted tractor on 18 %-slope		Unballasted tractor on 12 %-slope with trailer of 3000 kg	
	up	down	up	down
Braking device control force	135 N	145 N	100 N	125 N

MEASUREMENT OF EXTERNAL NOISE LEVEL:

Date of tests: 18.6.1985

Type of sound level meter: BRÜEL & KJAER 2200 and 2308

Type of track: Concrete

Gear number: S 6

Travelling speed before acceleration: 28,5 km/h

Sound level: 85 dB(A)

NOISE MEASUREMENT AT DRIVER'S EAR:

Date of tests: 18.6.1985

Type of sound level meter: BRÜEL & KJAER 2200 and 2308

Type of track: Concrete

Safety cab full closed.

Gear	Drawbar pull at which the tractor develops the max. sound level	Measured travelling speed	Sound level
-	kN	km/h	dB(A)
All openings closed (tractor fitted with cab)			
L 1	34,0	2,21	85,5
L 2	33,9	2,97	85,0
L 3	34,1	3,73	85,0
M 1	36,2	4,45	84,5
L 4	33,4	5,36	85,0
M 2	38,5	5,72	85,5
L 5	34,9	6,34	84,5
M 3 *)	16,9	8,05	85,0
M 3 *)	light load (1,4)	8,51	84,5
L 6	17,3	8,71	85,0
S 1	17,1	9,60	85,0
M 4	20,5	11,20	84,5
S 2	16,6	12,67	84,5
M 5	15,7	13,98	84,0
S 3	13,5	15,95	84,5
M 6	7,7	18,21	84,5
S 4	7,6	23,54	84,5
S 5	5,9	28,88	85,0
S 6	light load (1,6)	37,66	85,0

*) The M 3 gear corresponds to the nominal travelling speed nearest to 7,5 km/h.

LIFTING FORCE AND HYDRAULIC POWER TEST RESULTS:

Date and location of test:	13.6.1985, Wieselburg, Austria

Hydraulic fluid:

Make and type:	SHELL TELLUS 46
Viscosity:	46 resp. 68 mm^2/s (cSt) at 40°C
Viscosity index:	ISO VG 46 HLP
Type of hydraulic system:	Open center type
Hydraulic fluid temperature at beginning of test:	60°C
Type of linkage lock for transport:	Hydraulically by throttle valve
Opening pressure of the cylinder overpressure safety valve (manufacturer's specification):	24,5 MPa (245 bar)

Power lift:

	**)Height of lower hitch point above ground in down position mm	Vertical movement (lift rod length 722,5 mm) mm	**) Max. force exerted through full range kN	Corresponding pressure of hydraulic fluid MPa	**)Moment about rear axle kNm	Max. tilt angle of mast over range of lift (+) degrees
At hitch points	314/184	534/670	34,1/27,3 57,2*/46,0*	16,7 (167 bar)	35,6/28,5 59,8*/48,1*	
On the frame 520 mm mast height	314/184	534/670	27,1/20,5 41,0*/32,6*	16,7 (167 bar)	28,3/21,4 42,8*/34,1*	from +1° to 0° and to +7°

*) With additional working cylinder
**) Max./min. mechanical advantage

Hydraulic power:

Sustained pressure with relief valve open:	18,0 MPa (180 bar)
Opening pressure of relief valve:	18,5 MPa (185 bar)
Pump delivery rate at minimum pressure:	41 l/min at 2300 rev/min
Flow rate corresponding to a hydraulic pressure equivalent to 90 % of the actual relief valve pressure setting and corresponding hydraulic power:	Flow rate: 39,5 l/min at 2300 rev/min Pressure: 16,7 MPa (167 bar) Power: 11,0 kW
Flow rate and hydraulic pressure corresponding to maximum hydraulic power:	Flow rate: 40 l/min at 2300 rev/min Pressure: 17,5 MPa (175 bar) Power: 11,6 kW
Tapping points used for test:	At rear of tractor
Temperature of hydraulic fluid:	60°C

Linkage geometry (projected lengths):

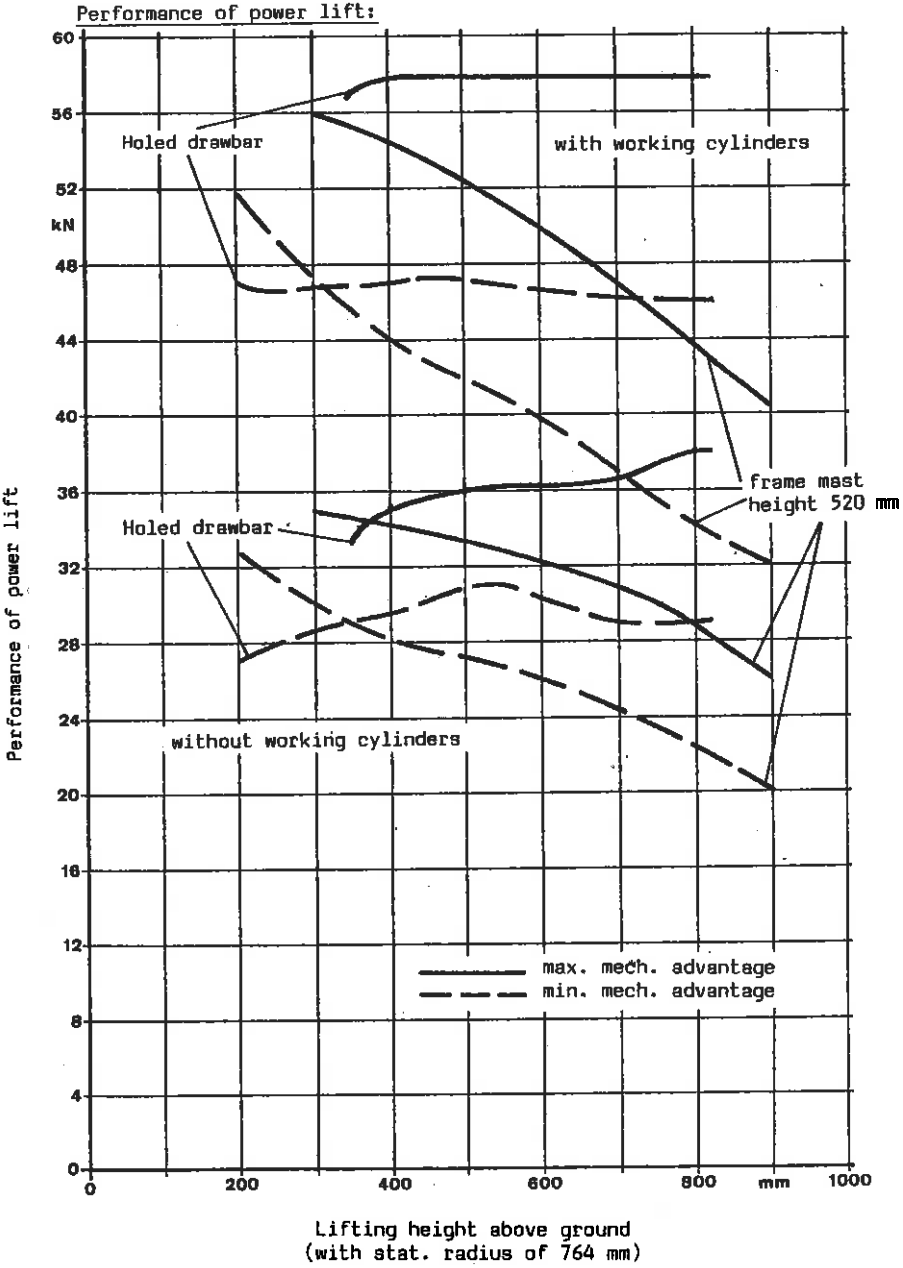
Rear tyres (size 18,4-34 AS) stat. radius:		(r)	764 mm
Front tyres (size 13,6 R 24 AS) stat. radius:		(r')	544 mm
Length of lift arms:		(A)	193/245 mm
Length of lower links:		(B)	900 mm
Distance of lift arm pivot point from rear wheel centre line:	horizontally	(a)	148 mm
	vertically	(b)	417 mm
Horizontal distance between the 2 lower link points:		(u)	480 mm
Horizontal distance between the 2 lift arm end points:		(v)	645 mm
Length of upper link:		(S)	from 520 to 760 mm during test: 605 mm
Distance of upper link pivot point from rear wheel centre line:	horizontally	(c)	438 mm
	vertically	(d)	260 mm
Distance of lower link pivot point from rear wheel centre:	horizontally	(e)	145 mm
	vertically	(f)	197 mm
Distance of lower link pivot points to lift rod pivot points on lower links:		(D)	450 mm
Length of lift rods:	right:	(L)	from 645 to 795 mm
	left:		from 665 to 770 mm
			during test: 722,5 mm
Height of lower hitch points during test: - in low position; max.mech./min.mech. - in high position; max.mech./min.mech. relative to the rear wheel centre line, situated 764 mm above the ground level		(h) (H)	450/580 mm 84/90 mm
Height of lower hitch points when locked in transport position:			Any height within lift range

These data are valid for unloaded power lift.

Performance of power lift

Lifting heights in relation to a horizontal line through the lower link pivot point mm		-350	-315	-240	-200	-150	-100	-50	0	+50	+100	+150	+200	+260	+300
Lifting force at the hitch-points kN	max.mech. advantage				34,1 *57,2	35,3 *57,8	35,8 *57,8	36,2 *57,8	36,4 *57,8	36,6 *57,8	36,6 *57,8	36,8 *57,8	37,9 *57,8	38,0 *57,7	
(Values for the pressure, calculated with 90 % of sustained oil pressure)	min.mech. advantage	27,3 *46,7	27,9 *46,4	28,6 *46,7	29,0 *46,7	29,6 *47,3	30,4 *47,4	30,7 *47,0	30,7 *46,8	30,2 *46,5	29,2 *46,1	29,0 *46,0	29,0 *46,0	29,2 *46,0	
	Maximum force exerted through whole range: 34,1 kN / 27,3 kN (3475/2780 kp) *57,2/*46,0 kN(*5830/*4690 kp)														
	Calculated oil pressure: 167 bar (16,7 MPa)														
Lifting force at the frame with 520 mm mast height and 610 mm behind lower links hitch-points kN	max.mech. advantage			34,7 *55,5	34,4 *55,3	34,1 *54,4	33,7 *53,4	33,3 *52,3	32,9 *51,0	32,2 *49,6	31,5 *48,0	30,7 *46,4	29,8 *44,8	28,3 *42,8	27,1 *41,0
	min.mech. advantage	32,4 *51,3	31,0 *49,4	29,2 *46,1	28,5 *44,9	28,1 *43,7	27,6 *42,6	27,1 *41,6	26,5 *40,4	25,9 *39,2	25,2 *37,8	24,3 *36,3	23,3 *34,9	21,8 *33,3	20,5 *32,6
	Maximum force exerted through whole range: 27,1 / 20,5 kN (2760/2090 kp) *41,0/*32,6 kN (*4180/*3325 kp)														
	Calculated oil pressure: 167 bar (16,7 MPa)														

* with working cylinders


Performance of power lift:
60
56
52
kN
48
44
40
36
32
28
24
20
16
12
8
4
0
Holed drawbar
with working cylinders
frame mast height 520 mm
Holed drawbar
without working cylinders
max. mech. advantage
min. mech. advantage
Performance of power lift
0
200
400
600
800
mm
1000
Lifting height above ground
(with stat. radius of 764 mm)

OPTIONAL TESTS

Main power take-off performance

Date and location of tests: 29.5.1985, Wieselburg, Austria
Type of dynamometer: SCHENK eddy-current brake Typ W 780

Main test on: ISO R 500, Typ 1 (DIN 9611) - 540 rev/min p.t.o.

Power	Speed		Fuel consumption		Specific energy
	engine	p.t.o.	hourly	specific	
kW	rev/min	rev/min	kg/h 1/h	g/kWh	kWh/l
MAXIMUM POWER					
Maximum power - 2 hours test					
75,38	2300	604	19,00 22,75	252	3,313
Standard p.t.o. speed					
74,63	2057	540	17,57 21,05	235,5	3,546
The speed recommended by the manufacturer for drawbar work					
75,38	2300	604	19,00 22,75	252	3,313
PART LOADS Governor hand lever in position giving maximum power					
(i) 85 % of torque at maximum power					
65,88	2365	621	17,45 20,89	265	3,153
(ii) unloaded					
0	2509	659	5,43 6,51	-	-
(iii) 50 % of the load defined in (i)					
33,84	2430	638	11,26 13,48	332,5	2,511
(iv) maximum power					
75,38	2300	604	19,00 22,75	252	3,313
(v) 25 % of the load defined in (i)					
17,16	2464	647	8,37 10,02	487,5	1,713
(vi) 75 % of the load defined in (i)					
50,20	2403	631	14,29 17,11	284,5	2,934

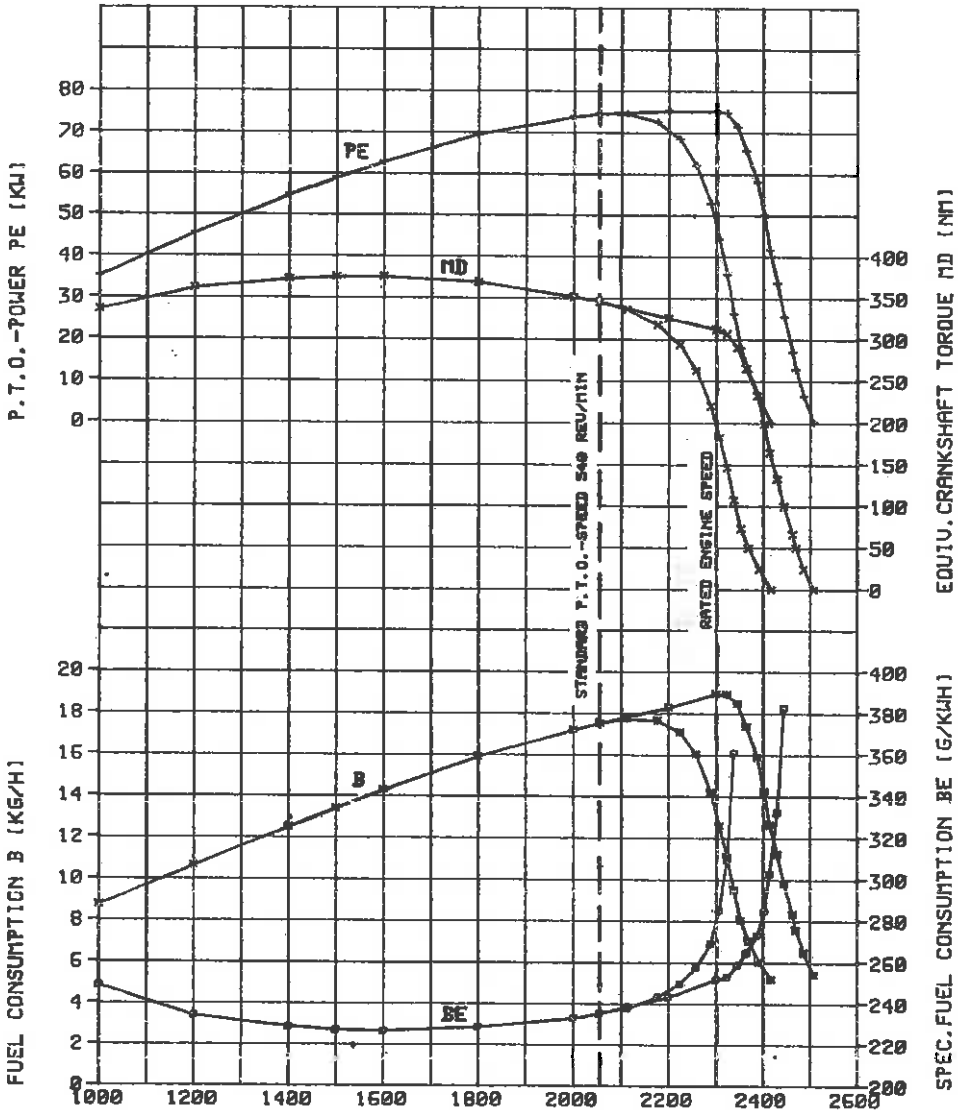
Power	Speed		Fuel consumption		Specific energy
	engine	p.t.o.	hourly	specific	
kW	rev/min	rev/min	kg/h l/h	g/kWh	kWh/l
PART LOADS Governor hand lever in position giving standard p.t.o. speed at full load					
(i) 85 % at torque at standard p.t.o. speed					
68,60	2224	584	17,14 20,53	250	3,342
(ii) unloaded					
0	2418	635	5,20 6,23	-	-
(iii) 50 % of the load defined in (i)					
35,83	2323	610	11,11 13,30	310	2,694
(iv) maximum power at standard p.t.o. speed					
74,63	2057	540	17,57 21,05	235,5	3,546
(v) 25 % of the load defined in (i)					
18,15	2353	618	8,08 9,67	445	1,876
(vi) 75 % of the load defined in (i)					
52,95	2289	601	14,24 17,06	269	3,104
STANDARD SPECIFIC FUEL CONSUMPTION: 265/332,5 - 250/310 g/kWh					

No load maximum engine speed: 2509 rev/min
Equivalent crankshaft torque
at maximum power: 313 Nm
Maximum equivalent crankshaft torque: 376 Nm at 1600 rev/min of engine

Mean atmospheric conditions: temperature: 17°C
pressure: 987 mbar
humidity: 78 %

Maximum temperatures: coolant: 86°C
engine oil: 117°C
fuel: 58°C
air intake: 24°C

BUNDESANSTALT FUER LANDTECHNIK WIESELBURG/ERLAUF, AUSTRIA PROT.NR.: 127/85	540 rev/min P.T.O.-TEST	STEYR TYP 8130A (377.25) MOT.TYP WD 611.88

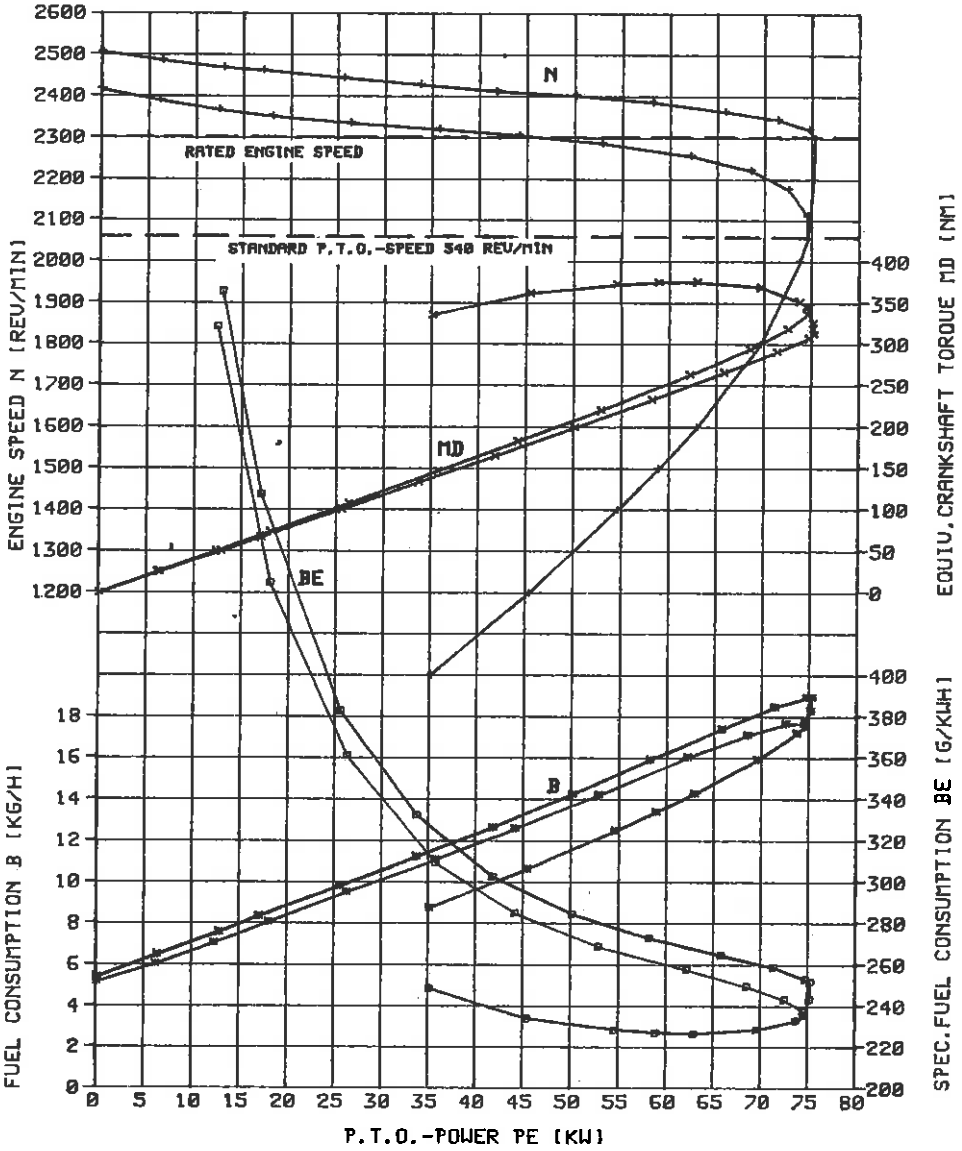


ENGINE SER.NR.: 611.88-999	ATM.PRESSURE : 987 MBAR	FUEL TEMP.: 58 C	SIGNATURE
TRACTOR SER.NR.: 377.25-86037	AIR TEMPER. : 17 C	D.OF TESTS: 1985-05-29	
FUEL : 8.830/15 C	COOLANT TEMP.: 96 C	TEST NO. : 145/M188	
ENGINE OIL : RIMULA X 10 W	OIL TEMP. : 112 C	CURVES NO.: 3	REITHER

17-JUL-85

DVR.:0100846-DL003:MKU120,MKL20-21

BUNDESANSTALT FUER LANDTECHNIK WIESELBURG/ERLAUF, AUSTRIA PROT.NR.:127/85	540 rev/min P.T.O.-TEST	STEYR TYP 8130A (377.25) MOT.TYP WD 611.88



ENGINE SER.NR.: 611.88-999	ATM.PRESSURE : 987 MBAR	FUEL TEMP.: 58 C	SIGNATURE
TRACTOR SER.NR.: 377.25-06097	AIR TEMPER. : 17 C	D.OF TESTS: 1985-05-29	
FUEL : 0.830/15 C	COOLANT TEMP.: 86 C	TEST NO. : 145/M188	
ENGINE OIL : RIMULA X 10 W	OIL TEMP. : 117 C	CURVES NO.: 4	REITHER

Engine performance

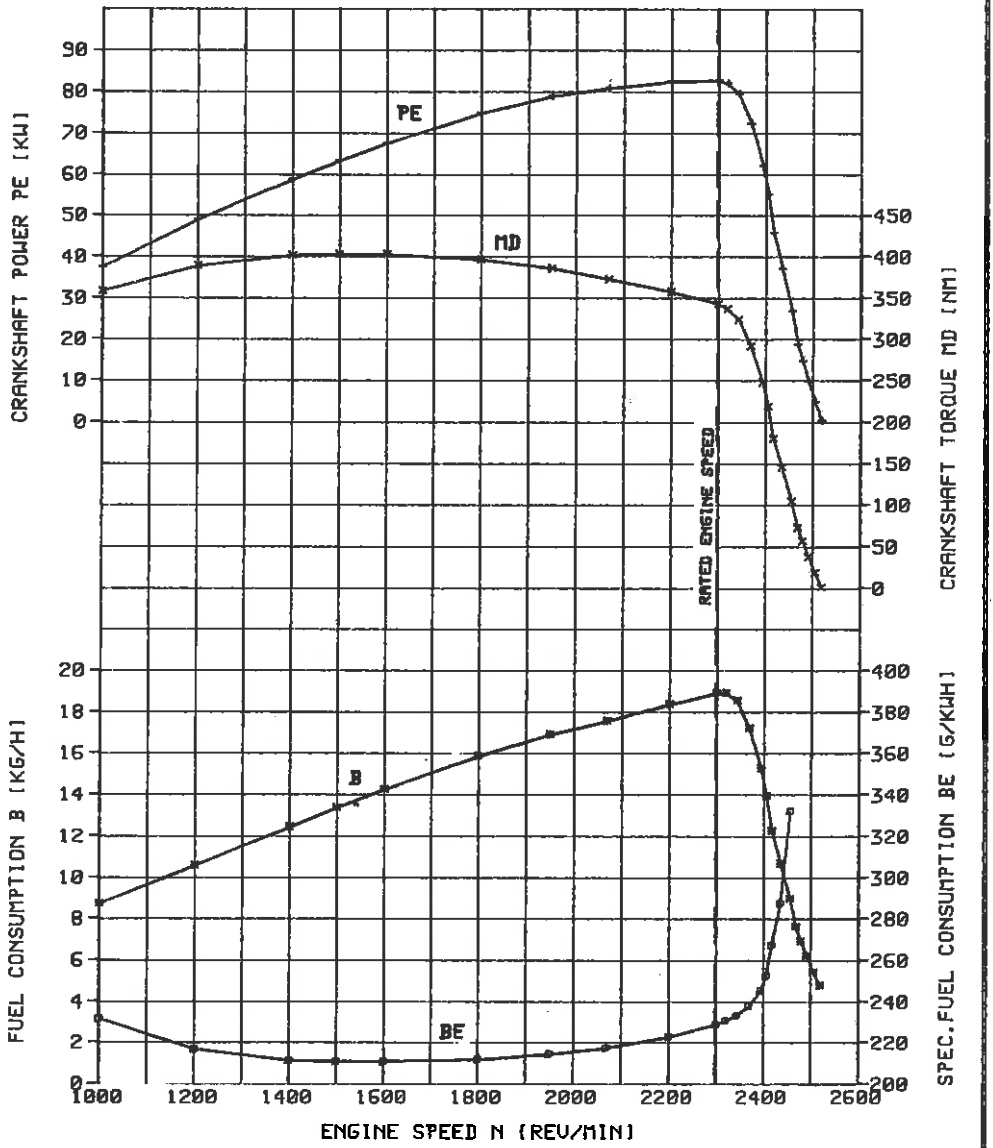
Date and location of test: 12.4.1985
Type of dynamometer: SCHENK eddy-current brake Typ W 780

Power	Engine speed	Fuel consumption		Specific energy
		hourly	specific	
kW	rev/min	kg/h 1/h	g/kWh	kWh/l
Maximum power - 2 hours test				
82,80	2300	18,96 22,70	229	3,647
Standard p.t.o. speed - 1000/540 rev/min				
80,94	2070	17,60 21,08	217,5	3,840
80,80	2056	17,53 21,00	217	3,848
The speed recommended by the manufacturer for drawbar work				
82,80	2300	18,96 22,70	229	3,647
Part loads				
(i) 85 % of torque at maximum power				
72,52	2370	17,25 20,66	238	3,510
(ii) unloaded				
0	2520	4,80 5,75	-	-
(iii) 50 % of the load defined in (i)				
37,27	2436	10,72 12,83	287,5	2,904
(iv) maximum power				
82,80	2300	18,96 22,70	229	3,647
(v) 25 % of the load defined in (i)				
18,90	2470	7,63 9,14	404	2,068
(vi) 75 % of the load defined in (i)				
55,22	2406	13,96 16,72	253	3,303

Optimum fuel consumption: 210,5 g/kWh at 65,60 kW and 1600 rev/min
No load maximum engine speed: 2520 rev/min
Torque at maximum power: 343,8 Nm
Maximum torque: 403,9 Nm at 1500 - 1600 rev/min of engine

Mean atmospheric conditions:	temperature:	15°C
	pressure:	980 mbar
	relative humidity:	72 %
Maximum temperatures:	coolant:	90°C
	engine oil:	112°C
	fuel:	39°C
	engine air intake:	23°C

BUNDESANSTALT FUER LANDTECHNIK WIESELBURG/ERLAUF, AUSTRIA PROT.NR.:127/85	ENGINE-TEST	STEYR TYP 8130A (377.25) MOT.TYP WD 611.88

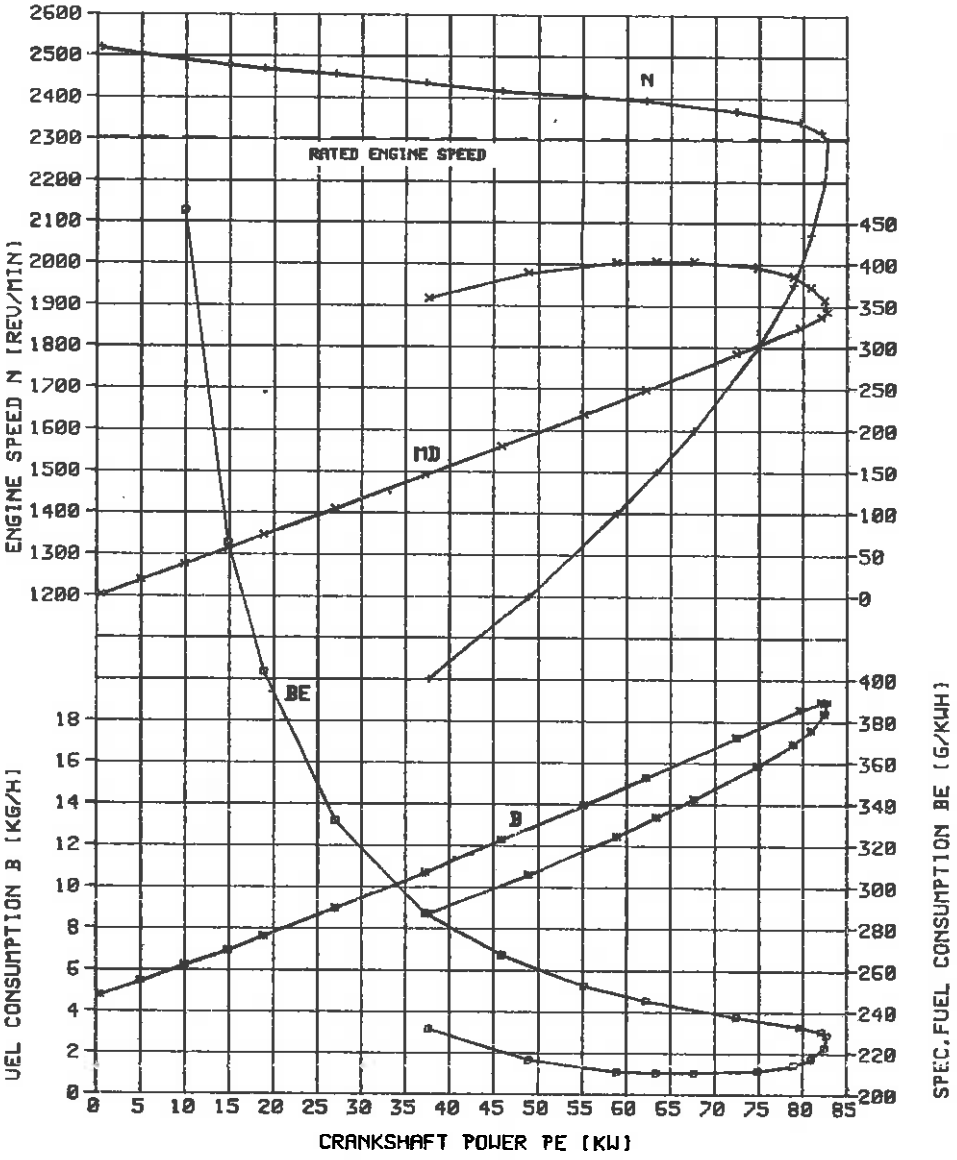


ENGINE SER.NR.: 611.88-999	ATM.PRESSURE : 988 MBAR	FUEL TEMP.: 39 C	SIGNATURE
TRACTOR SER.NR.: 377.25-06097	AIR TEMPER. : 15 C	D.OF TESTS: 1985-04-12	
FUEL : 0.833/15 C	COOLANT TEMP.: 90 C	TEST NO. : 145/M188	
ENGINE OIL : RIMULA X 10 W	OIL TEMP. : 112 C	CURVES NO.: 5	REITHER

17-JUL-85

DUR.:0100846-DL003;MKU120;MKL20-KU

BUNDESANSTALT FUER LANDTECHNIK WIESELBURG/ERLAUF, AUSTRIA PROT.NR.: 127/85	ENGINE-TEST	STEYR TYP 8130A (377.25) MOT.TYP WD 611.88



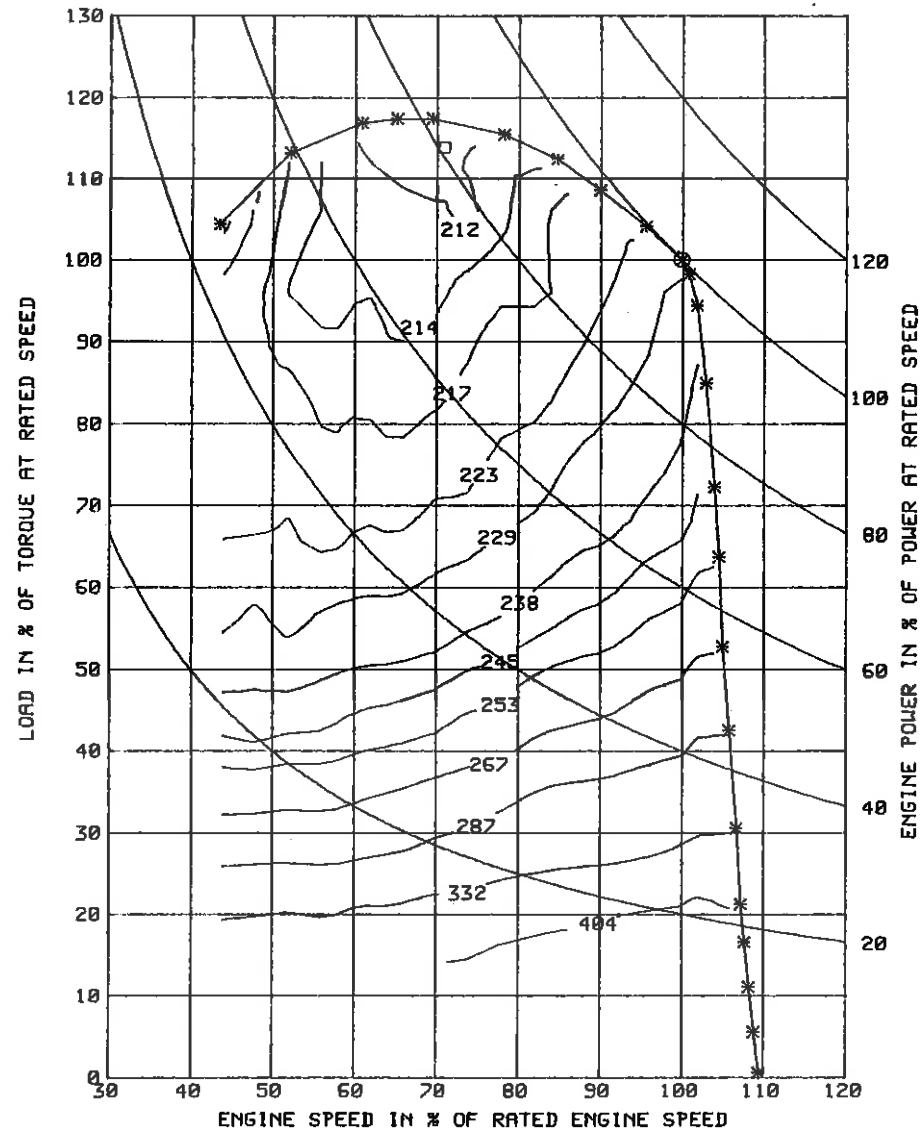
ENGINE SER.NR.: 611.88-999	ATM.PRESSURE : 980 MBAR	FUEL TEMP.: 39 C	SIGNATURE
TRACTOR SER.NR.: 377.25-86097	AIR TEMPER. : 15 C	D.OF TESTS: 1985-04-12	
FUEL : B.833/15 C	COOLANT TEMP.: 90 C	TEST NO. : 145/M188	
ENGINE OIL : RIMULA X 10 W	OIL TEMP. : 112 C	CURVES NO.: 6	REITHER

17-JUL-85 DVR.:B100846-DL003,MKU120,MKL20-KU

BUNDESANSTALT FUER LANDTECHNIK WIESELBURG/ERLAUF, AUSTRIA PROT.NR.: 127/85	ENGINE PERFORMANCE CHARACTERISTICS	STEYR TYP 8130A (377.25) MOT.TYP WD 611.88

□ ....MIN.FUEL CONS. 210.60 G/KWH AT N = 1633. REV/MIN,
MD = 391.90 NM, P = 67.0 KW

⊛ ....N = 2300. REV/MIN, MD = 344. NM, P = 82.8 KW



ENGINE SER.NR.: 611.80-999	ATM.PRESSURE : 980 MBAR	FUEL TEMP.: 39 C	SIGNATURE
TRACTOR SER.NR.: 377.25-86097	AIR TEMPER. : 15 C	D.OF TESTS: 1985-04-12	
FUEL : 0.833/15 C	COOLANT TEMP.: 98 C	TEST NO. : 145/M188	
ENGINE OIL : RIMULA X 10 W	OIL TEMP. : 112 C	CURVES NO.: 7	REITHER

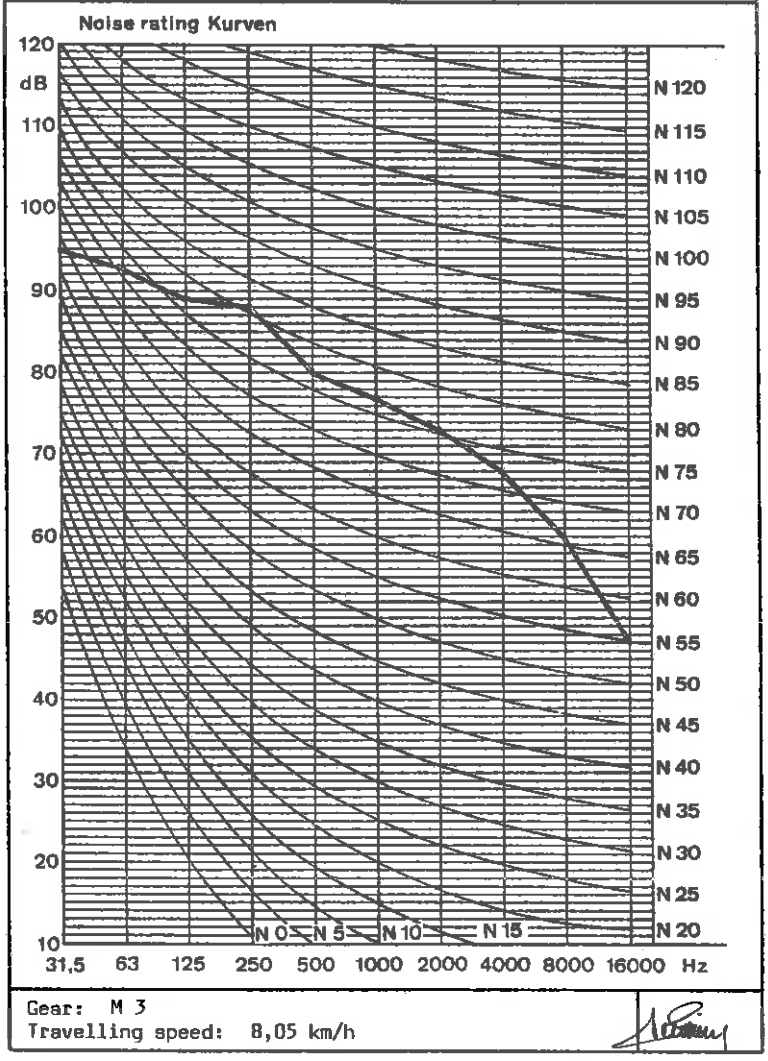
EDV-DL003:MKU120.DAT:MKL10MU

ANNEX

Out of the OECD-Code under responsibility of the Austrian Tësting Station

OCTAVE ANALYSIS OF NOISE AT THE DRIVER'S EAR LEVEL
(to page 30)

Bundesanstalt für Landtechnik Wieselburg/Austria	Octave analysis of noise at the drivers ear level	Dieseltractor STEYR 377.25 (STEYR 8130 a)



Gear: M 3
Travelling speed: 8,05 km/h

Bundesanstalt für Landtechnik

A-3250 Wieselburg/Erlauf

Postfach 33 Telefon 07416/2175

Wieselburg/Erlauf, am 19.10. 1987

Addendum to the OECD-test report no. 949
concerning the tractor STEYR 377.25 (trade name 8130 a)

Manufacturer: Steyr-Daimler-Puch AG., Steyr, Austria

In the way of the technical further development the following parts of the tractor during serial-production were changed:

Page 2:

Fuel system:	Capacity of fuel tank: 120 l Fuel feed system: Fuel feed by pump

Page 5:

Electrical system:	Type: BOSCH 0 120 488 114 14 V, 55 A, 770 W

Page 9:

Power take-off:	One p.t.o. shaft at rear of tractor, in median plane, 525,5 mm behind rear axle, 710,5 mm above ground (764 mm stat. tyre radius) Dimension: Type 1 (55 mm, 6 splines) Speeds: 540/ 585 rev/min at 2122/2300 rev/min engine 1000/1090 rev/min at 2110/2300 rev/min engine Transmission ratio: 3,93 resp. 2,11
Power lift:	Electronic power lift control: Optional, not on tested tractor Electronic position control, draft control or mixed adjustment of power lift. Floating position possible with draft setting. Sensitivity and lowering speed selectable. Quick lifting, reset of the setted dates and accelerated lowering to setpoint of the power lift can be switched.

Page 17:

Protective structure specifications:	OECD-approval no. CSD 01061/1, 17.7.1986, Wieselburg Model: STEYR 110.01

Page 18:

Driver's seat:	Optional Make and type: Grammer LS 95 H 1 / 90, tested on tractor according to national regulation (Prot. Nr. 111/86) Type of suspension: X-lever with air springs suspension, with battery driven air compressor, adjustable to driver's weight and three positions of seat. The seat is swingable 10° to right with additional lever, a horizontal suspension with 22,5 mm oscillation can be activated.

Page 19:

Lighting:	Side lights: Height above ground of centre: 1650 mm Size: 40 x 120 mm Distance from outside edge of tractor to centre: 345 mm Direction indicators rear: Height above ground of centre: 1610 mm Size: 40 x 120 mm Distance from outside edge of tractor to centre: 345 mm

Page 22:

Test results:	Main power take-off performance: The control of the main power take-off performance established the dates of the test. When the engine speed is ident there are no discrepances in the performance of the main power take-off of the standing test report no. 949 (see table page 22, 23, 37, 38).

This addendum becomes effective beginning with tractor serial no. 377.05-06951.