

O.E.C.D. Report No.: 1191

Bundesanstalt für Landtechnik

A-3250 Wieselburg, Austria

Dieseltractor STEYR 397.26

Trade name:

STEYR 8165a (4WD)



Date of approval: 27.4.1989

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

TABLE OF CONTENTS

	Page
SPECIFICATIONS OF TRACTOR	2
Tractor	2
Engine	2
Transmission to wheels	6
Power take off	10
Power lift	11
Swinging drawbar	14
Hitch	14
Holed drawbar	16
Steering	17
Brakes	17
Wheels	18
Protective structure	18
Driver's seat	19
Miscellaneous	19
Lighting	20
TEST CONDITIONS	21
Repairs	24
Remarks	24
TEST RESULTS	25
Compulsory test	25
Main power take-off performance - 1000 rev/min	25
Hydraulic power and lifting force	29
Performance of power lift	32
Drawbar performance	33
Turning area and turning circle	35
Location of centre of gravity	35
Braking	35
Measurement of external noise level	37
OPTIONAL TEST RESULTS	38
Eninge performance	38
ANNEX	42
OECD noise test	42

Tractor manufacturer's name and address:	STEYR-DAIMLER-PUCH AG., Steyr, Austria STEYR-HELLAS ABE., Sindos, Greece
Location of tractor assembly:	Steyr, Austria
Submitted for test by:	Manufacturer
Selected for test by:	Manufacturer by agreement with BLT-Wieselburg
Plase of running-in:	Steyr, Austria
Duration of running-in:	200 hours
Location of test:	Wieselburg, Austria

SPECIFICATIONS OF TRACTOR

TRACTOR:

Make:	STEYR-DAIMLER-PUCH AG.
Trade name:	STEYR 8165 a
Model:	Diesel-tractor STEYR 397.26
Type:	Wheel tractor, unit construction
Number of driving wheels:	4
Serial no.:	397.26 - 04717/0052
1st serial no.:	397.26 - 04568/0001

ENGINE:

Make:	Own make
Model:	WD 612.86
Type:	4 stroke diesel engine with direct injection and exhaust turbo supercharger
Serial no.:	612.86 - 701

Cylinder:

Number/disposition:	6, vertical in line
Bore/stroke:	108/120 mm
Capacity:	6596 cm^3
Compression ratio:	16,5 : 1
Arrangement of valves:	Overhead valves
Cylinder liners:	Slip-fit dry cylinder liners

Supercharging:

Make:	GARRET
Model:	A/R 50 BCC STEYR-replacement no. 612.60.11.0164
	Optional: SCHWITZER STEYR-replacement no. 612.60.11.0193
Type:	Exhaust turbo-supercharger
Pressure:	Up to 1200 mbar

Fuel system:

Fuel feed system:	Fuel feed by gravity
Make, model and type of fuel filter:	Pre-cleaner: Optional, not on tested tractor PUROLATOR PFC 220
	Main filter: PUROLATOR PER 247-F Changeable filter element with water trap
Capacity of fuel tank:	appr. 168 l
Make, model and type of injection pump:	BOSCH distributor injection pump VE 6/12 F 1100 R 265-1
Serial no.:	0 460 426 109
Manufacturer's production setting of injection pump, flow rate and timing:	72^{+0}_{-2} mm³/stroke at 1100 rev/min and full load $10^{\pm1°}$ before TDC at 1 mm pump stroke
Make, model and type of injectors:	BOSCH DLLA 150 S 1091 Multi hole injection nozzles
Injection pressure:	$22{,}5^{+0{,}8}_{-0}$ MPa (225^{+8}_{-0} bar)

Governor:

Make:	BOSCH
Type:	Variable speed governor, mechanically acting, incorporated in injection pump
Governed range of engine speed:	From 660 to 2420 rev/min engine speed
Rated engine speed:	2200 rev/min

Air cleaner:

Pre-cleaner:	
Make:	PUROLATOR or MANN & HUMMEL
Model:	PUROLATOR LVE 080/5 P or MANN & HUMMEL 48 096 67 900

Type:	Cyclon type with transparent dust container
Optional:	Turbo cleaner SURECO mod.no. 35-4
Location of air intake:	Above the bonnet, above the motor
Main cleaner:	
Make:	PUROLATOR or MANN & HUMMEL
Model:	PUROLATOR LP 120 S/1 MANN & HUMMEL 45 325 65 444
Type:	Dry type with changeable element PUROLATOR paper insert: PM 1709 MANN & HUMMEL paper insert: C 20 325/2 KNECHT paper insert: AG 74 Additional safety element PUROLATOR paper insert: AF 3101 MANN & HUMMEL paper insert: CF 1000 KNECHT paper insert: SE 120
Location:	Inside the bonnet
Service intervals:	
Cyclonic pre-cleaner:	Cleaning interval: 500 hours and visual control
Main-cleaner paper-insert:	Cleaning interval: when control lamp indication Changing interval: after 5 cleaning indications or 1 year
Safety element:	Changing interval: after 5 main-cleaner paper insert cleanings, 2 years, or if main-cleaner was defect
Maintenance indicator:	Electric lamp indication, -65 mbar for indication PUROLATOR LES 065 IP

Lubrication system:

Type of feed pump:	Gear pump
Type of filter:	Strainer in sump, paper filter in full flow
Number:	1
Type of coolant:	Oil cooler for motor lubrication system situated inside the engine block on left side, in main flow of water cooling system

Cooling system:

Type of coolant:	Double circuit water cooling with longtime frost protection down to -20°C with a tubular radiator
Type of pump:	Centrifugal pump, 1 driving belt
Specification of fan:	Puller, visco controlled speed, 1 belt driven, visco clutch fan-boss EATON 240, at 63°C and rated engine speed 2740 rpm

Number of fan blades:	7
Fan diameter:	510 mm
Optional:	Not on tested tractor
Specification of fan:	Puller, direct driven by 1 belt
Number of fan blades:	6
Fan diameter:	510 mm
Coolant capacity:	appr. 27 l
Type of temperature control:	Thermostat control with electrical cooling water thermometer and sight glass for level indication Speed control of fan by a thermostatic-visco fan-boss
Superpressure system:	Max. 50 kPa (0,5 bar)

Starting system:

Make:	BOSCH
Model:	0 001 367 010 JF
Type:	Solenoid engaged screw push starter motor
Starter motor power rating:	3 kW, 12 V
Cold starting aid:	Own make Electrically, glow plug in intake pipe
Safety device:	Electrically starting block system by engaged gear.

Electrical system:

Voltage:	12 V, negative earth
Generator:	Make: BOSCH 0120 489 756 Type: three phase type K 1-14 V 65 A 21 Power: 14 V, 65 A = 910 W
Battery:	2 with 12 V, lead acid type Rating: 2 x 88 Ah = 176 Ah at 20 hours rating

Exhaust system:

Make:	EBERSPÄCHER
Model:	T 16.47.282.01.0.00 STEYR-replacement no. 397 540028
Type:	Reflexion-absorption type
Location:	170 mm left of median plane, 2845 resp. 3000 mm height above ground with flap open

TRANSMISSION TO WHEELS:

Clutch:

Main clutch:	For travel alone
Make:	FICHTEL & SACHS AG.
Type:	Dry clutch with torsion antivibrator
Number of plates:	1, equipped with ceramic lining
Diameter of plate:	350 mm
Method of operation:	Mechanical acting, pedal operated
P.t.o. clutch:	
Make:	Own make
Type:	Wet multiplate clutch
Number/diameter of plates:	11/135 mm
Method of operation:	Hydraulically engaged, hand-switch operated
Front wheel drive clutch:	
Make:	STEYR
Type:	Wet multiplate clutch
Number/diameter of plates:	21/135 mm
Method of operation:	Hydraulically engaged, hand-switch operated In case of Optistop, as on tested tractor, electrically-hydraulically engaged, push button operated, control lamp indication

Gearbox:

Make:	Own make
Model:	TW 397
Type:	Mechanical acting gear box
Lubrication:	See "switching aid"
Arrangement:	Synchronized group gear with 3 forward and 1 reverse group combined with a synchronized 4 speed change gear
Number of gears:	Totally: 12 forward and 4 reverse speeds
Available options:	On tested tractor Torque amplifier group; speed reduction ratio: 1,25, electrically-hydraulically engaged multiplate clutches, switched by a push button, control lamp indication Super crawler group; speed reduction ratio: 8,44, mechanically engaged by a hand lever

Fitted with both optional groups:
Totally 36 forward and 12 reverse speeds
Optionally instead of super crawler group also crawler group, with speed reduction ratio 3,79, available
Gears with crawler group engaged are provided only for works requiring no major traction load of the transmission (cultivating, p.t.o. shaft driven implements with low tractive force)

Rear axle and final drives:

Make:	Own make
Model:	TW 397
Type:	Central driving type Pinion and bevel gear, bevel gear differential, planetary final gears
Differential lock:	Type: mechanically dog clutch, acting from half axle to differential housing Method of engagement: hydraulically engaged, pull-button operated, electric control lamp Method of disengagement: not self-disengaging

Front axle and final drives:

Make:	Own make
Type:	Central driven steering axle Front wheel drive clutch - central propeller shaft, pinion and bevel gear, bevel gear differential, double joints, planetary final gears in wheel hubs
Differential lock:	Type: mechanically dog clutch acting from half axle to differential housing Method of engagement: hydraulically engaged, pull-button operated, electric control lamp Method of disengagement: not self-disengaging
Optional:	
Make:	SIGE
Type:	ES 18 P - central driven steering axle Front wheel drive clutch, central propeller shaft, pinion and bevel gear, bevel gear differential, double joints, planetary final gears in wheel hubs
Differential lock:	Type: hydraulically activated multi disc clutch in the bevel gear differential Method of engagement: hydraulically, pull-button operated, electric control lamp Method of disengagement: not self-disengaging

Switching aid:

Make:	Own make
Type:	Oil circuit for gear box lubrication, for switching the differential locks in rear and front axle, for front wheel drive clutch, p.t.o. clutch and optional equipment (i.e. torque amplifier group switching) BOSCH gear pump, directly driven by engine Delivery rate: 41 l/min at 1,8 MPa (18 bar) and 2200 rev/min rated engine speed Common oil filter with hydraulic power lift circuit

Total ratios and travelling speeds: 40 km/h model with torque amplifier group and crawler group, as tested

Group	Gear no.	Number of engine revolutions for one revolution of driving wheels				Nominal travelling speed at rated engine speed of 2200 rev/min *) km/h			
		normal N	torque amplifier group **) T	super crawler group ***) SC	crawler group ***) C	normal N	torque amplifier group **) T	super crawler group ***) SC	crawler group ***) C
forward slow L	1	253,09	317,56	2137,23	958,77	2,80	2,23	0,33	0,74
	2	180,24	226,15	1522,05	682,94	3,93	3,14	0,47	1,04
	3	130,82	164,14	1104,71	495,69	5,42	4,32	0,64	1,43
	4	93,92	117,85	793,13	356,01	7,55	6,02	0,89	1,99
forward medium M	1	152,06	190,79	1284,02	575,96	4,66	3,72	0,55	1,23
	2	108,29	135,87	914,43	410,26	6,55	5,22	0,78	1,73
	3	78,60	98,62	663,70	297,77	9,02	7,19	1,07	2,38
	4	56,43	70,80	476,50	213,87	12,57	10,02	1,49	3,32
forward fast S	1	50,71	63,63	428,24	192,10	13,98	11,14	1,66	3,69
	2	36,12	45,31	304,97	136,84	19,63	15,65	2,33	5,20
	3	26,21	32,89	221,35	99,32	27,05	21,56	3,20	7,14
	4	18,82	23,61	158,92	71,33	37,68	30,03	4,46	9,94
reverse R	1	146,42	183,71	1236,41	554,69	4,84	3,86	0,57	1,28
	2	104,27	130,83	880,53	395,12	6,80	5,42	0,81	1,79
	3	75,68	94,96	639,09	286,78	9,37	7,47	1,11	2,47
	4	54,34	68,18	458,83	205,97	13,05	10,40	1,55	3,44

*) Calculated with a tyre dynamic radius index 855mm - ISO 4251/1 - 1984
**) Optional
***) Optional "super crawler" or "crawler group", not provided for works with major traction load

Number of revolutions of front wheels for one revolution of rear wheels:	1,3759 or Optional: for other tyre combinations 1,4670 or 1,3103

POWER TAKE OFF:

Main power take-off:

Type:	Independent p.t.o.
Method of engagement:	Wet multi-plate clutch, hydraulically engaged, switched by a pull-button
Number of shafts:	One
Method of changing power take-off shaft ends and speeds:	Optional, not on tested tractor Turning of the p.t.o. end piece for 1000 rev/min and 540 rev/min

Power take-off proportional to engine speed:

Standard:	As on tested tractor: 1000 rev/min
Optional:	1000 rev/min and 540 rev/min
Location:	In rear of tractor
Diameter of power take-off shaft end:	35 mm
Number of splines:	21, in conformity with ISO R 500 - 1979, type II for 1000 rev/min p.t.o.
Optional:	and additional (not on tested tractor): 6, in conformity with ISO R 500 - 1979, type I for 540 rev/min p.t.o.
Height above ground:	720 mm with tyre dynamic radius index of 855 mm
Distance from the median plane of the tractor:	0 mm
Distance behind rear wheel axis:	585 mm (with optional 540 rev/min, 1000 rev/min p.t.o. 672 mm)
P.t.o. speed at rated engine speed:	1205 rev/min (optional 1205 rev/min and 633 rev/min)
Engine speed at standard power take-off speed:	1826 rev/min (optional 1826 rev/min and 1877 rev/min)
Ratio of rotation speeds (engine speed/p.t.o. speed):	1,826 (optional 1,826 resp. 3,476)

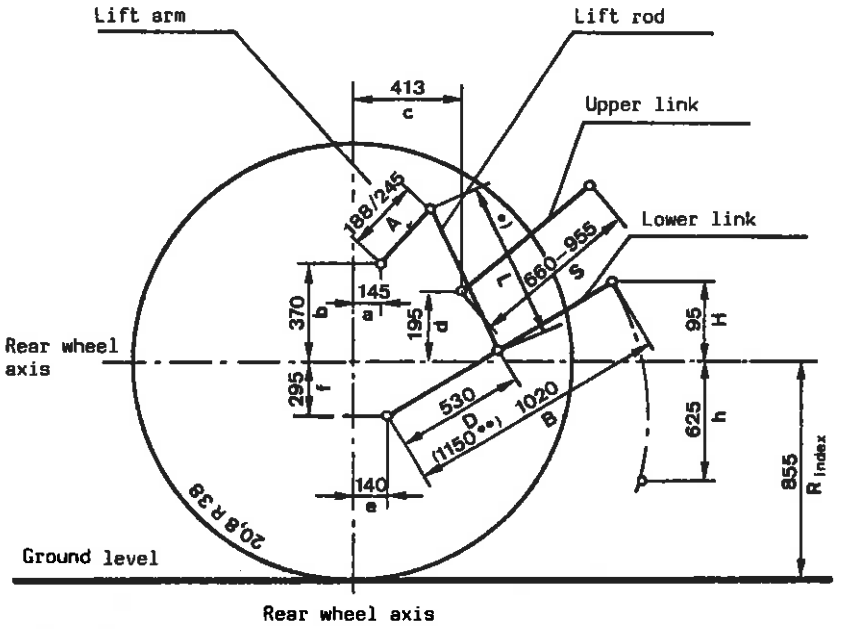
Power restriction of p.t.o. 540:	Max. 51,5 kW
Direction of rotation (viewed facing driving end):	Clockwise

POWER LIFT:

Make:	Own make
Type:	Three point linkage with electronic position control, draft control or mixed adjustment of power lift, lower link sensing. Sensitivity, height of lifting and lowering speed selectable. Quick lifting, reset of the setted dates and accelerated lowering to setpoint of the power lift can be switched. Safety switch. Switches on both rear mudguards for lifting and lowering from outside.
Optional:	Own make Three point linkage with mechanical control of draught with two stage pull adjustment and lower link sensing, position control and floating position
Type of hydraulic system:	Open center type
Type and number of cylinders:	Single acting hydraulic cylinder inside the block, stroke and diameter: 165/105 mm. Optional: as on tested tractor Two additional single acting working cylinders outside, stroke and diameter: 195/70 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
Transmission between pump and engine:	Pump directly driven by engine, not declutchable
Type and number of filter:	One filter in suction part, common with switching aid oil circuit
Site of oil reservoir:	Gear box
Type, number and location of tapping points:	Up to 8 tapping points (oil circuits for double acting cylinders) 410 mm behind rear axle, 300 - 495 mm above rear axle, 120 - 190 mm right of median plane. In accordance to ISO/DIS 5675 - 1979
Maximum volume of oil available to external cylinders:	25 l in stationary mode 10 l in driving mode

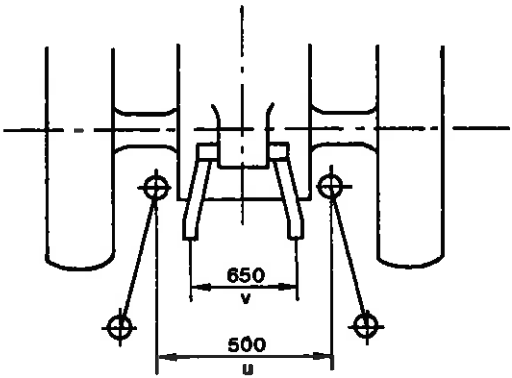
Three point linkage:

Category: III, in conformity with ISO 730/1 - 1977
STEYR SIMPLEMATIK standard linkage, double hole lift arms, with additional working cylinders (optional as on tested tractor) max.mech. advantage not useable



*) Right lift rod length adjustable from 700 - 860 mm by gear and thread
Left lift rod adjustable from 710 - 825 mm by a thread

**) Optional, not on tested tractor, long version of lower link for increased range



Dimensions of linkage geometry:

			Dimension of range mm	Settings used in test mm
Length of lift arms:		(A)	245 or 188 (only useable without additional working cylinders)	245
Length of lower links:		(B)	1020 or optional 1150	1020
Distance of lift arm pivot points from rear wheel axis:	horizontally	(a)	145 rearwards	145
	vertically	(b)	370 above	370
Horizontal distance between the 2 lower link points:		(u)	500	500
Horizontal distance between the 2 lift arm end points:		(v)	650	650
Length of upper links:		(S)	from 660 to 955	740
Distance of upper link pivot point from rear wheel axis:	horizontally	(c)	413	413
	vertically	(d)	195	195
Distance of lower link pivot point from rear wheel axis:	horizontally	(e)	140 rearwards	140
	vertically	(f)	295 below	295
Distance of lower link pivot points to lift rod pivot points on lower links:		(D)	530	530
Length of lift rods:		(L)	700 - 860 right 710 - 825 left	812
Height of lower hitch points relative to the rear wheel axis:				
in low position:		(h)	410/655	625
in high position:		(H)	260/80	95
(lift rod length 710/825 mm)				
Height above ground of lower hitch points when locked in transport position*):			Any height within lift range	

*) with dynamic radius index 855 mm

SWINGING DRAWBAR:

	Optional, not on tested tractor
Type:	Fork type
Height above ground:	510 mm with 855 mm dynamic radius index
Type of adjustment:	Changing holes with bolts
Distance of hitch point from rear wheel axis, horizontally:	985 mm resp. 785 mm
Distance of hitch point from power take-off shaft end, vertically:	210 mm below
horizontally:	400 mm resp. 113 mm
Lateral adjustment, right hand:	435 mm resp. 360 mm ± 22° from median plane
left hand:	435 mm resp. 360 mm ± 22° from median plane
Distance of pivot point from rear wheel axis, horizontally:	160 mm before
Diameter of drawbar pin hole:	28 mm
Maximum vertical permissible load:	15 kN

HITCH:

	Optional, not on tested tractor
	Own make
Hitch hook diameter:	48 mm
Height above ground:	527 mm with 855 mm dynamic radius index
Distance of hitch point from rear wheel axis, horizontally:	550 mm rearwards
Distance of pivot point relative to rear axle:	0 mm
Distance of hitch point from power take-off shaft end, vertically:	193 mm below
horizontally:	35 mm rearwards

Swinging drawbar in combination with hitch:	Optional, not on tested tractor
Height above ground:	465 mm with 855 mm dynamic radius index
Distance of hitch point from rear wheel axis, horizontally:	940 mm
Distance of pivot point from rear wheel axis:	0 mm
Distance of hitch point from power take-off shaft end, vertically:	255 mm below
horizontally:	355 mm resp. 268 mm rearwards
Diameter of drawbar pin hole:	28 mm

TRAILER HITCH:

	ROCKINGER, model 273 U 150 A (standard type)
Type:	Fork type
Hole diameter:	31 mm
Height above ground:	502/826 mm
Distance of hitch point from rear wheel axis, horizontally:	565 mm
Distance of hitch point from power take-off shaft end, vertically:	218 mm below resp. 106 mm above
horizontally:	20 mm frontwards
Maximum vertical permissible load:	15 kN
or	
	Optional (not on tested tractor) ROCKINGER, model 248 U 150 B (automatic type)
Type:	Fork type
Hole diameter:	31 mm
Height above ground:	826 mm
Distance of hitch point from rear wheel axis, horizontally:	565 mm
Distance of hitch point from power take-off shaft end, vertically:	106 mm above
horizontally:	20 mm frontwards

Maximum vertical permissible load:	15 kN
Optional (not on tested tractor):	Mounting console for vertical adjustment of trailer hitch, for ROCKINGER, model 271 U 150 H (standard type) and ROCKINGER, model 248 U 150 B (automatic type)
Height above ground:	915/965/1015 mm
Distance of hitch point from rear wheel axis, horizontally:	565 mm rearwards
Distance of hitch point from power take-off shaft end, vertically:	195/245/295 mm above
horizontally:	20 mm frontwards
Maximum vertical permissble load:	15 kN

Towing hitch:

	Own make
Type:	Fork type
Hole diameter:	35 mm
Height above ground:	808 mm
Distance from front axle:	760/1000 mm frontwards (dependent from number of front ballast)

HOLED DRAWBAR:

	Category II
Number of holes (with central hole):	7
Distance between holes:	115 mm
Hole diameter:	33 mm
Thickness/width of the drawbar:	30/80 mm
Height above ground min.:	200 mm with lift rod length 825 mm
max.:	1115 mm with lift rod length 710 mm
Horizontal distance to power take-off shaft end (rear):	575 mm

STEERING:

Make:	ZF-SCHWÄBISCH GMÜND or DANFOSS
Model:	ZF-SCHWÄBISCH GMÜND ZF 8493 or ZF 8453 or DANFOSS OSPC 160 OR
Type:	Hydrostatic steering
Method of operation:	Steering wheel acting on front wheels
Pump:	Gear pump, directly driven by engine
Rams:	2, double acting Front axle: STEYR, stroke/dia: 250/45 mm - 18 mm SIGE, stroke/dia: 250/50 mm - 25 mm
Working pressure:	10 MPa (100 bar)

BRAKES:

Service brake:

Make:	GIRLING
Type:	Hydraulically activated, Optistop four wheel brake, pedal operated Rear axle: Hydraulically activated multi disc brake in oil bath, 12 acting faces with 198,5 mm effective diameter each Front axle: Automatically engaged four wheel drive when service brake is activated; electrically-hydraulically acting on front wheel drive clutch Front axle brake: Optional only when tractor is fitted with air pressure brake system Hydraulically activated Simplex drum brake, drum: 400 mm dia, 100 mm width Front axle brake is hydraulically activated and air pressure assisted Separate circuit of brake fluid for front and rear axle
Trailer braking take-off:	Optional, not on tested tractor In conformity with national regulations Pressure air system: High pressure air system, one or one and two 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: 0,74 MPa (7,4 bar) two line system 0,56 MPa (5,6 bar) one line system

Optional, not on tested tractor (export to France):
Oil braking system, activated by service brake
Trailer-connection: NFU 16-006
100 bar oil pressure at 3 m/s^2 deceleration

Parking brake:

Type: Mechanically acting on the wet disc brakes in the rear axle; when motor is not in action the front wheel clutch is locked and the parking brake is acting on the front wheels too.

Method of operation: Hand lever with ratchet

Optional equipment:
Independent from service brake, acting on a separate packet of discs

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

WHEELS:

Number: Front: 2, steering and driving function
Rear: 2, driving function

Wheelbase: 2720 mm

Track width adjustment:

	Minimum mm	Maximum mm	Adjustment method
Front	1832	2365	wheels turned around
Rear	1900	1940	

PROTECTIVE STRUCTURE:

Make: Own make

Model: STEYR 120.11

Manufacturer's name and address: STEYR-DAIMLER-PUCH AG., Steyr, Austria

Protective device: On tested tractor, full closed cab, not tiltable

OECD-approval no.: CSS 015/5

DRIVER'S SEAT:

Make:	GRAMMER
Type:	LS 95 H 1 / 90 R; tested on tractor according to national regulation (Prot.Nr. 075/86)
Type of suspension:	Seat mounted on X-lever, with air spring suspension, with battery driven air compressor, automatically adjusting to driver's weight, horizontal suspension.
Type of damping:	Hydraulically damping
Range of adjustment,	
longitudinal:	150 mm
vertical:	60 mm
or	
	On tested tractor
Make:	GRAMMER
Type:	DS 85 H/90 A; tested on tractor according to national regulation (Prot.Nr. 074/86)
Type of suspension:	X-lever construction with 2 tension coil springs (force transmission by curve-disc and ball bearing)
Type of damping:	Hydraulically damping
Range of adjustment,	
longitudinal:	155 mm
vertical:	3 steps adjustable, inclineable left and right 8°

MISCELLANEOUS:

Additional seat	
Location:	Left side of driver seat
Number of places:	1

LIGHTING:

	*) Height above ground of centre mm	Size mm	Distance from outside edge of lights to median plane of tractor mm
Head lights	1125	140 x 120	230
Additional head lights	2830	140 x 120	565
Side lights	1920	115 x 35	860
Rear lights	1805	95 x 60	1070
Brake lights			
Direction indicators front	1950	115 x 35	860
Direction indicators rear	1805	95 x 60	1160
Reflectors	1520 670	105 x 60 80 dia	1192 595

*) Measured with tyre dyn. radius index at rear 855 mm and 640 mm at front.

TEST CONDITIONS

Overall dimensions:

	Length	Width *)	Height at top of	
			**) exhaust silencer	***) protective structure
	mm	mm	mm	
Ballasted	4975	2500	2845/3000	2920/3115
Unballasted	4600	2500		

*) Measured on the outside edges of the mudguards
**) Without flap/with flap open
***) With roof hatch open

Ground clearance:
(unballasted)

Clearance limiting part:
450 mm below the lower link mounting console
450 mm below the four wheel drive
475 mm below the front axle

Tractor mass: With tanks full and protective structure

		Without	With driver
		kg	kg
Unballasted	Front	2066	2085
	Rear	3509	3565
	Total	5575	5650
Ballasted	Front	2890	2905
	Rear	4906	4966
	Total	7796	7871

Ballast: Heavy ballast, on tested tractor

	Number of weights	Mass total kg	Water kg
Front	14 + 1	652	-
Rear	2 x (4 + 1)	489	1080
Optional	-	-	-

Tyres and track width specifications:

Tyres:

	Front wheels	Rear wheels
Dimensions	14,9 R 28 rim: W 12 x 28	20,8 R 38 rim: DW 18 x 38
Ply rating	6	8
Type	radial carcass	radial carcass
Max. load (tyre manufacturer's)	15,7 kN (1600 kp)	30,3 kN (3090 kp)
Max. load (tractor manufacturer's)	43,2 kN (4400 kp)	58,9 kN (6000 kp)
Inflation pressure (tyre manufacturer's)	140 kPa (1,4 bar)	130 kPa (1,3 bar)
Dynamic radius index	640 mm	855 mm
Track width	1832 mm	1900 mm

Possible combinations of tyres:

Track width rear/front	Front wheels	Rear wheels
1900/1894 mm by reversed wheels: 1940/2526 mm	13,6 - 24 14,9 - 28 16,9 - 26	18,4 - 38
	14,9 - 28 16,9 - 26 18,4 - 26	20,8 - 38

Oil and lubrications:

Capacity and change interval:

	Capacity (dm^3)	Oil change (h)	Filter change (h)
Engine	14,0	250	250
Gear box	85,0	1000 or 2 years	1000 or 2 years
Front axle	15 differential drive 2 x 1,5 final drive	1000 or 2 years	-
Rear axle	common with gear box	-	-
Hydraulic system	common with gear box and rear axle	-	-
Steering	2,5	check oil level	1000
Brake	0,7	brake fluid 2000 or 2 years	-
Number of lubrication points	20	grease to lubricate each 60	-

Specifications:

	Recommended:	Used during test:
Engine oil:		
Type:	One range viscosity oil	
Viscosity:	SAE 30 summer SAE 10 W/40 winter	
Classification:	API CD, MIL-L-2104 C	SHELL RIMULA X 15 W 40
Transmission oils:		
Type:	Universal oil	
Viscosity:	SAE 10 W/40	
Classification:	API GL 4, MIL-L-2104 C STUO	ELAN automatic HGN
Hydraulic fluid:	Common with transmission oil	

Steering oil:		
Type:	Hydraulic oil or automatic transmission oil	
Viscosity:	ATF DEXRON II D	SHELL
Transmission oil of front axle:		
Type:	Transmission oil	
Viscosity:	SAE 90, 85 W 90	
Classification:	API GL 5, MIL-L-2105 B/C	SHELL SPIRAX EP 90
Brake fluid:		
Type:	-	
Classification:	SAE J 1703e FMVSS 116 DOT 3	ATE DOT 3
Grease:		
Type:	Lithium soap basis	
Classification:	NLGI 2 (multigrade grease)	
Number of lubrication points:	20	
Fuel:	ELAN diesel fuel	
Type:	In conformity with national standard according to DIN 51601	
Density at 15°C:	0,841 g/cm^3	

REPAIRS: -

REMARKS: -

TEST RESULTS

COMPULSORY TEST:

Main power take-off performance

Date and location of tests: 25.10.1988, Wieselburg, Austria
Type of dynamometer: SCHENCK eddy-current brake W 780

Main test on: ISO R 500 - 1979, type 1 (DIN 9611) - 1000 rev/min

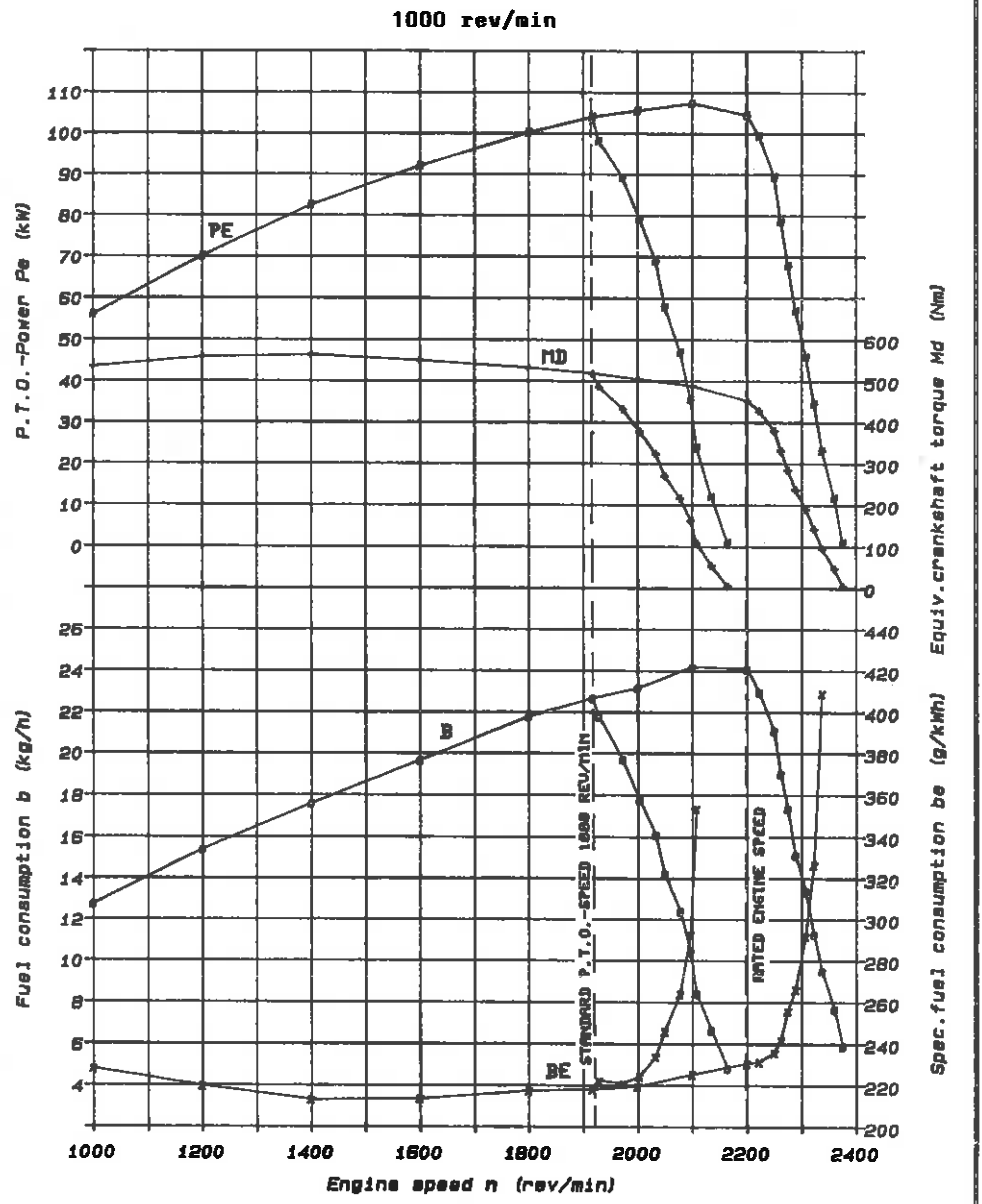
Power	Speed		Fuel consumption		Specific energy
	engine	p.t.o.	hourly	specific	
kW	rev/min	rev/min	kg/h l/h	g/kWh	kWh/l
MAXIMUM POWER					
Maximum power - 2 hours test					
107,31	2100	1095	24,20 28,64	225,5	3,75
Power at rated engine speed					
104,47	2200	1148	24,10 28,52	230,5	3,66
Standard power take-off speed					
104,00	1917	1000	22,69 26,85	218,0	3,87
PART LOADS					
(i) the torque corresponding to maximum power at rated engine speed					
104,47	2200	1148	24,10 28,52	230,5	3,66
(ii) 85 % of torque obtained in (i)					
89,41	2250	1174	21,10 24,97	236,0	3,58
(iii) 75 % of torque defined in (ii)					
67,80	2275	1187	17,36 20,54	256,0	3,30
(iv) 50 % of torque defined in (ii)					
45,85	2308	1204	13,39 15,85	292,0	2,89
(v) 25 % of torque defined in (ii)					
23,23	2338	1220	9,51 11,25	409,5	2,07
(vi) unloaded					
0	2375	1239	5,89 7,00	-	-

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 AT STANDARD POWER TAKE-OFF SPEED					
(i) The torque corresponding to maximum power available					
104,0	1917	1000	22,69 26,85	218,0	3,87
(ii) 85 % of torque obtained at maximum power					
89,21	1972	1029	19,70 23,40	221,0	3,81
(iii) 75 % of torque defined in (ii)					
68,92	2032	1060	16,12 19,08	234,0	3,61
(iv) 50 % of torque defined in (ii)					
47,00	2078	1084	12,41 14,69	264,0	3,20
(v) 25 % of torque defined in (ii)					
23,84	2108	1100	8,43 9,98	353,5	2,39
(vi) unloaded					
0	2164	1129	4,83 5,72	264,0	-

No load maximum engine speed: 2375 rev/min
Equivalent crankshaft torque
at maximum power: 453,4 Nm at rated engine speed
Maximum equivalent crankshaft torque: 562,7 Nm at 1400 rev/min of engine

Mean atmospheric conditions	temperature:	16°C
	pressure:	99,5 mbar
	rel. humidity:	70 %
Maximum temperatures.	coolant:	90°C
	engine oil:	106°C
	fuel:	23°C
	engine air intake:	38°C

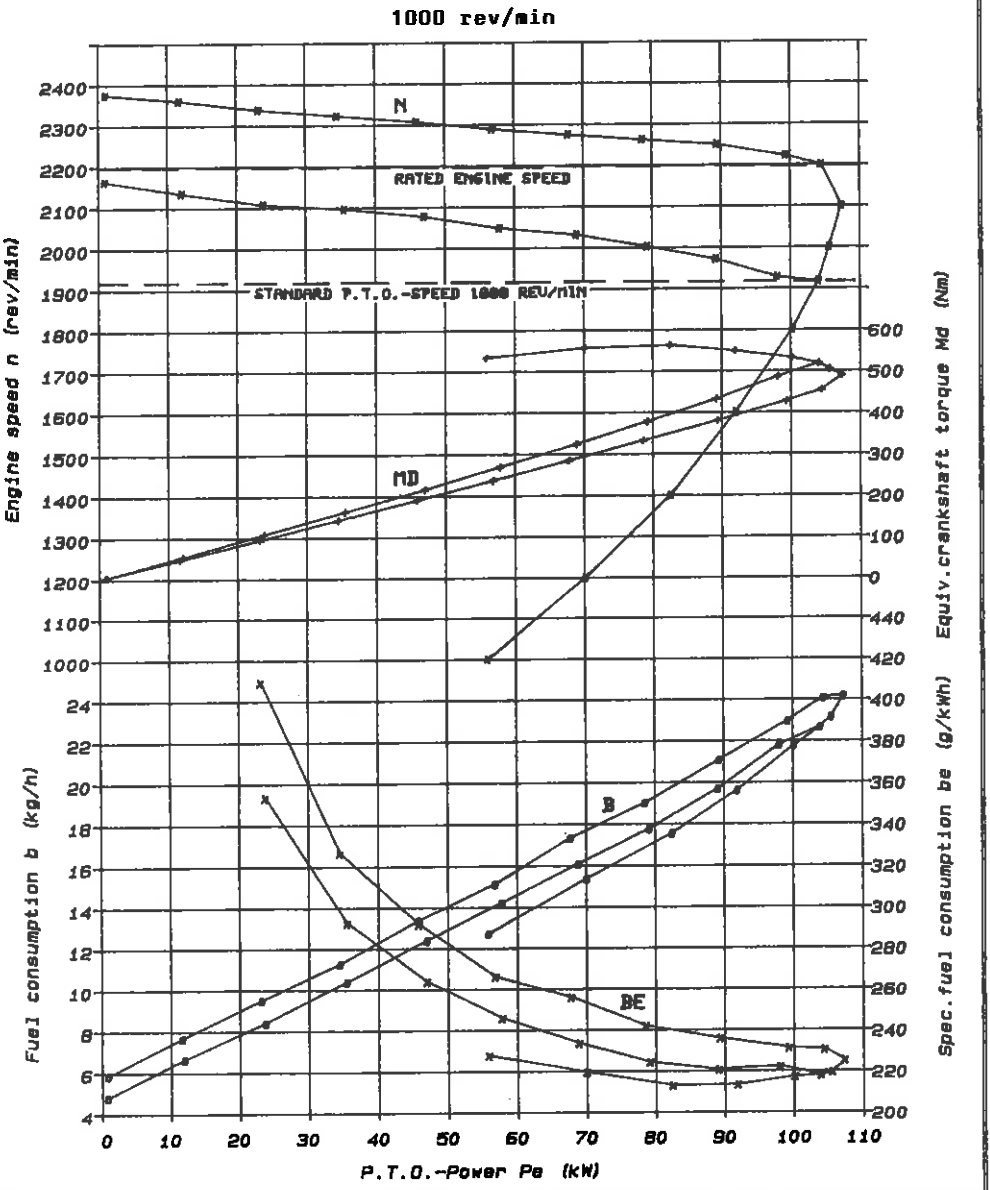
Bundesanstalt für Landtechnik 'ieselburg/Erlauf. Austria Prot.Nr.: 013/89	P.T.O.-test	STEYR-DIESELTRACTOR Typ 397.26 (8165A) Mot.Typ STEYR WD612.86



ngine ser.nr. : 701	atm. pressure: 995 MBAR	fuel temp. :23 C	signature
ractor ser.nr.: 397.26-04717	air temper. : 16 C	d.of tests :1988-10-25	
uel : 0.845/15 C	coolant temp.: 90 C	test no. :780-437-88	
ngine oil : RIMULA X 15W40	oil temp. : 105 C	curves no. : 1	LUGER

30-JAN-1989 14:35 MKU286

Bundesanstalt für Landtechnik Wieselburg/Erlauf, Austria Prot.Nr.: 013/89	P.T.O.-test	STEYR-DIESELTRACTOR Typ 397.26 (8165A) Mot.Typ STEYR WD612.86



engine ser.nr. : 701	atm. pressure: 995 MBAR	fuel temp. : 23 C	signature
tractor ser.nr.: 397.26-04717	air temper. : 16 C	d.of tests : 1988-10-25	
fuel : 0.845/15 C	coolant temp.: 90 C	test no. : 780-437-88	
engine oil : RIMULA X 15W40	oil temp. : 106 C	curves no. : 2	LUGER

HYDRAULIC POWER AND LIFTING FORCE:

Date of tests: 19.9.1988

Hydraulic power test:

Sustained pressure with relief valve open: 17,7 MPa (177 bar) pump stalled not

Pump delivery rate at minimum pressure (at rated engine speed): 50,2 l/min

	Flow rate	Pressure	Power
	l/min	MPa	kW
Flow rate corresponding to a hydraulic pressure equivalent to 90 % of the actual relief valve pressure setting and corresponding hydraulic power	48,0	16,7	13,4
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	47,5	17,7	14,0

Tapping point used for test: At rear of tractor

Temperature of hydraulic fluid, if different from 65° ± 5°C: -

Opening pressure of the unloading valve: 18,5 MPa (185 bar)

Closing pressure of the unloading valve: 17,7 MPa (177 bar)

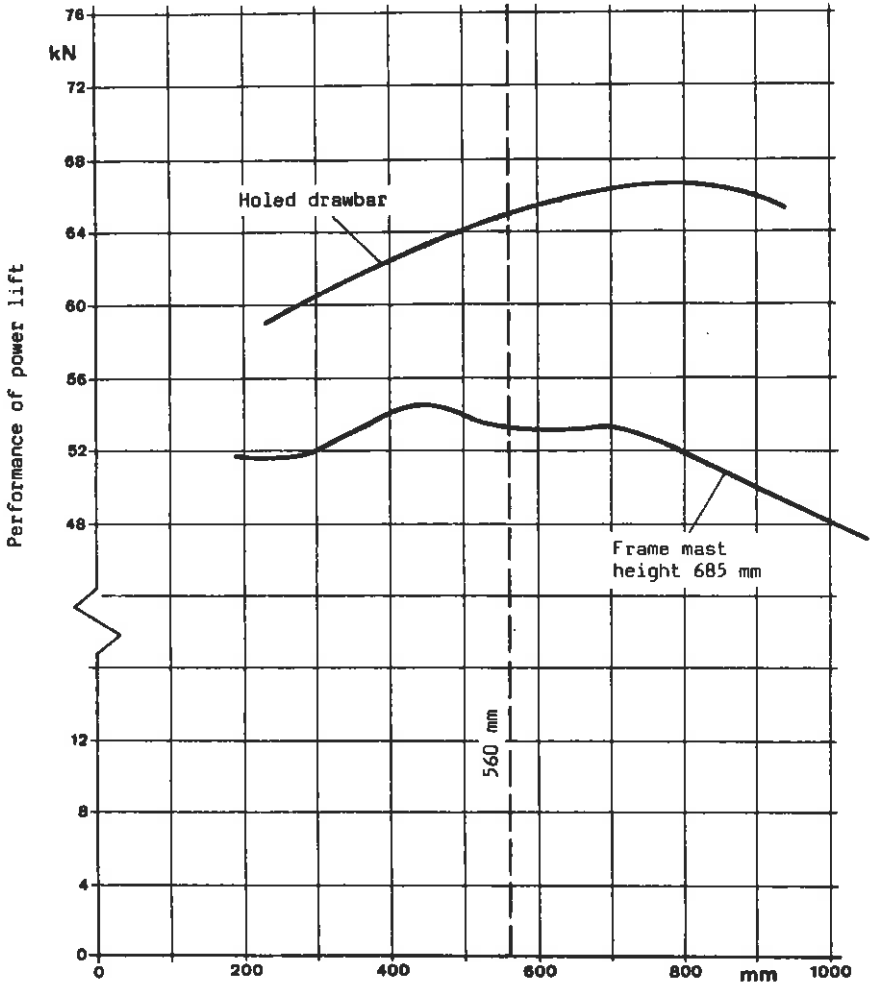
Power lift test:

	at the hitch point	on the frame
Height of lower hitch points above ground in down position	230 mm	230 mm
Vertical movement	720 mm	720 mm
Maximum corrected force exerted through full range	59,2 kN	47,1 kN
Corresponding pressure of hydraulic fluid	16,7 MPa (167 bar)	16,7 MPa (167 bar)
Moment about rear wheel axis	68,7 kNm	83,4 kNm
Maximum tilt angle of mast from vertical (+)	-	-

Linkage settings for test: See table and figure in specifications

Lifting heights relative to the horizontal plane including the lower link pivot points														
mm	-370	-330	-265	-225	-150	-75	0	75	150	225	300	390	420	490
Lifting forces (the values measured are corrected to correspond to a hydraulic pressure equivalent to 90 % of the actual relief valve pressure setting or to maximum power delivered by the hydraulic system, which is lower)														
Corresponding pressure: 16,7 MPa (167 bar)														
at the hitch point kN		59,2	60,4	61,2	62,5	63,8	64,9	65,8	66,4	66,6	66,4	65,5		
at the frame (685 mm mast height) kN	51,7	51,7	52,1	52,8	54,3	54,2	53,3	53,2	53,2	52,0	50,6	49,4	48,3	47,1

Performance of power lift:



Drawbar performance:

Date of tests: 4.-5.10.1988, 8.11.1988

Height of drawbar above ground: unballasted 500 mm, ballasted 500 mm

Tyre inflation pressure: front: unballasted 110 kPa, ballasted 120 kPa
rear: unballasted 110 kPa, ballasted 110 kPa

Type of track: Concrete

Tyre sizes: front 14,9 R 28, rear 20,8 R 38

Gear	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consumption	Specific energy	Temperature			Atmosph. conditions		
								Fuel	Coolant	Engine oil	Temperature	Rel.humidity	Pressure
	kW	kN	km/h	rev/min	%	g/kWh	kWh/l	°C	°C	°C	°C	%	kPa
(i) Maximum power in tested gears (unballasted tractor)													
M 1 T	55,47	60,10	3,33	2213	15,0	-	-	16	75	91	5	70	99,8
L 2 N	58,47	60,09	3,50	2290	15,0	-	-	17	76	94	6	70	99,8
L 3 T	63,16	60,10	3,78	2260	15,0	-	-	17	78	93	6	70	99,8
M 1 N	68,45	60,09	4,10	2255	15,0	302,0	2,78	17	78	93	6	70	99,8
M 2 T	76,01	60,09	4,55	2226	15,0	286,5	2,93	14	74	91	6	70	99,8
L 3 N	78,06	60,10	4,68	2219	15,0	285,0	2,945	11	77	93	7	71	99,8
L 4 T	97,79	57,06	6,17	2200	9,3	261,0	3,22	12	77	92	6	72	99,8
M 2 N	91,27	53,70	6,12	2200	7,4	262,0	3,20	11	76	92	6	72	99,8
M 3 T	91,32	47,74	6,89	2200	5,1	262,0	3,21	11	77	92	6	73	99,8
L 4 N	92,92	46,00	7,27	2200	4,7	257,5	3,26	9	75	91	7	72	99,8
M 3 N	92,58	38,05	8,76	2200	3,9	258,5	3,25	9	75	90	6	70	99,8
M 4 T	70,76	26,07	9,77	2200	3,4	338,0	2,48	9	75	90	6	70	99,8

Gear	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consumption	Specific energy	Temperature			Atmosph. conditions		
								Fuel	Coolant	Engine oil	Temperature	Rel.humidity	Pressure
	kW	kN	km/h	rev/min	%	g/kWh	kWh/l	°C	°C	°C	°C	%	kPa
(ii) Maximum power in tested gears (ballasted tractor)													
L 1 T	43,45	78,85	1,98	2290	15,0	-	-	27	77	93	23	55	98,9
L 1 N	55,10	78,85	2,52	2287	15,0	-	-	31	78	96	18	55	98,9
L 2 T	62,21	78,85	2,84	2277	15,0	-	-	30	76	93	17	55	98,9
M 1 T	73,25	78,85	3,34	2258	15,0	252,0	3,33	30	76	93	17	55	98,9
L 2 N	76,56	78,85	3,50	2250	15,0	270,0	3,11	31	77	94	18	55	98,9
L 3 T	82,48	78,85	3,77	2217	15,0	270,0	3,11	26	79	100	17	58	98,9
M 1 N*)	88,20	75,71	4,19	2200	10,5	271,5	3,10	26	79	100	17	58	98,9
M 2 T	91,33	66,86	4,92	2200	6,3	262,0	3,21	24	81	98	16	62	98,9
L 3 N	92,53	64,66	5,15	2200	5,6	258,5	3,25	23	81	99	12	64	98,9
L 4 T	92,02	57,34	5,78	2200	4,6	260,0	3,23	23	80	98	12	64	98,9
M 2 N	93,83	53,59	6,30	2200	4,3	255,0	3,29	22	82	98	13	66	98,9
M 3 T	93,22	48,33	6,94	2200	4,0	256,5	3,27	22	82	98	13	66	98,9
L 4 N	93,07	45,78	7,32	2200	3,7	257,0	3,27	14	81	96	10	68	98,9
M 3 N	94,30	38,14	8,90	2200	3,1	254,0	3,33	14	81	96	10	68	98,9
*M 4 T	89,85	33,01	9,80	2200	2,8	266,5	3,15	20	78	94	9	66	98,9
(iii) Five-hour-test at 75 % of pull at maximum power													
M 3 N	71,90	28,62	9,05	2240	2,8	287,5	2,95	41	84	102	20	59	99,2
(iv) Five-hour-test at pull corresponding to 15 % wheelslip in test (ii)													
L 3 T	82,31	78,85	3,76	2213	15,0	270,5	3,11	46	82	102	14	71	99,5

Oil consumption during 10 hours duration of tests (iii) and (iv): 60,9 g/h
*) In these gear it was not possible to get 15 % wheel-slip

TURNING AREA AND TURNING CIRCLE:

Wheel equipment: front: 14,9 R 28, 6 PR, rim: W 12 x 28
rear: 20,8 R 38, 8 PR, rim: DW 18 x 38

Track of wheel: front: 1894 mm
rear: 1900 mm

Results	With brakes		Without brakes	
	right-hand	left-hand	right-hand	left-hand
	m	m	m	m
Radius of turning area	4,85/4,82	4,86/5,18	6,49/5,99	6,61/6,07
Radius of turning circle	4,61/4,58	4,62/4,94	6,25/5,75	6,37/5,83

*) Four wheel drive switched: ON/OFF

LOCATION OF CENTRE OF GRAVITY:

	mm
Height above ground	1028
Distance forward from the vertical plane containing the axis of the rear wheels	1010
Distance from the median plane of the tractor, left-side	9,4

BRAKING:

Date of tests: 13.10.1988, 16.11.1988
Type of track: Concrete
Type of decelerometer: Moto-Meter Nr. 03382 (Kombi-Schreiber)

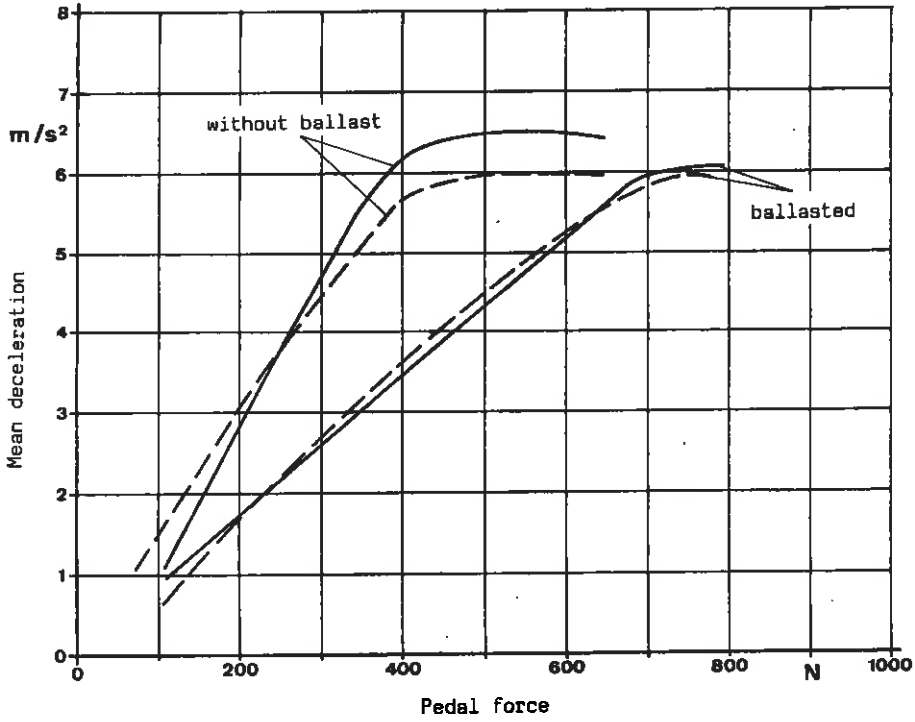
Tractor mass during brake tests (with driver):

	Front kg	Rear kg	Total kg
Ballasted	2905	4966	7871
Unballasted	2085	3565	5650

Service brake:

Tractor equipped with Optistop four-wheel-drive automatically switched-on when service brake is activated.

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



Speed before application of brake: 39,2 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 % slop	
Braking device control force	up	down
	180 N	200 N

MEASUREMENT OF EXTERNAL NOISE LEVEL:

Date of tests:	15.11.1988
Type of sound level meter:	BRÜEL & KJAER 2209 and 2308
Type of track:	Concrete
Gear number:	S 4 normal
Travelling speed before acceleration:	30,0 km/h
Sound level:	85,0 dB(A)

OPTIONAL TEST RESULTS

Engine performance:

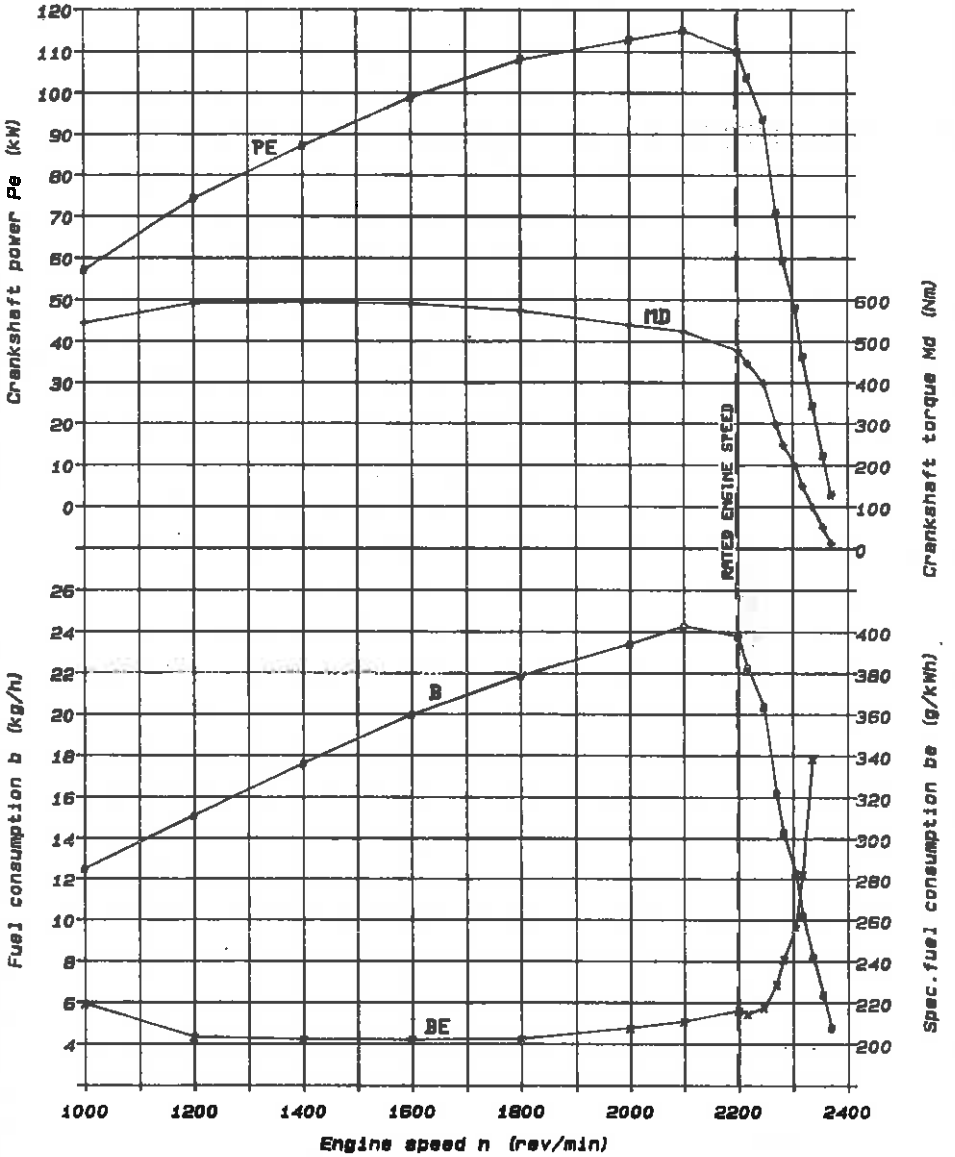
Date and location of test: 12.7.1988, Austria, Wieselburg
Type of dynamometer: SCHENCK eddy-current brake W 780

Power	Engine speed	Fuel consumption		Specific energy
		hourly	specific	
kW	rev/min	kg/h l/h	g/kWh	kWh/l
Maximum power - 2 hours test				
110,0	2200	23,79 28,15	216,0	3,91
115,1	2100	24,28 28,73	211,0	4,01
Power at rated engine speed				
110,0	2200	23,79 28,15	216,0	3,91
Standard power take-off speed				
104,0	1917	22,69 26,85	218,0	3,87
Part loads				
(i) the torque corresponding to maximum power at rated engine speed				
110,0	2200	23,79 28,15	216,0	3,91
(ii) 85 % of torque obtained in (i)				
93,60	2247	20,39 24,13	218,0	3,88
(iii) 75 % of torque defined in (ii)				
70,92	2270	16,24 19,22	229,0	3,69
(iv) 50 % of torque defined in (ii)				
48,0	2305	12,30 14,56	256,0	3,30
(v) 25 % of torque defined in (ii)				
24,32	2336	8,24 9,75	339,0	2,49
(vi) unloaded				
0	2370	4,81 5,69	-	-

Optimum fuel consumption: 202,0 g/kWh at 87,10 kW and 1400 rev/min;
and at 98,88 kW and 1600 rev/min
No load maximum engine speed: 2370 rev/min
Torque at macimum power: 477,5 Nm at rated engine speed
Maximum torque: 594,0 Nm at 1400 rev/min of engine

Mean atmospheric conditions:	temperature:	18°C
	pressure:	98,9 kPa
	relative humidity:	70 %
Maximum temperatures:	coolant:	89°C
	engine oil:	105°C
	fuel:	23°C
	engine air intake:	42°C

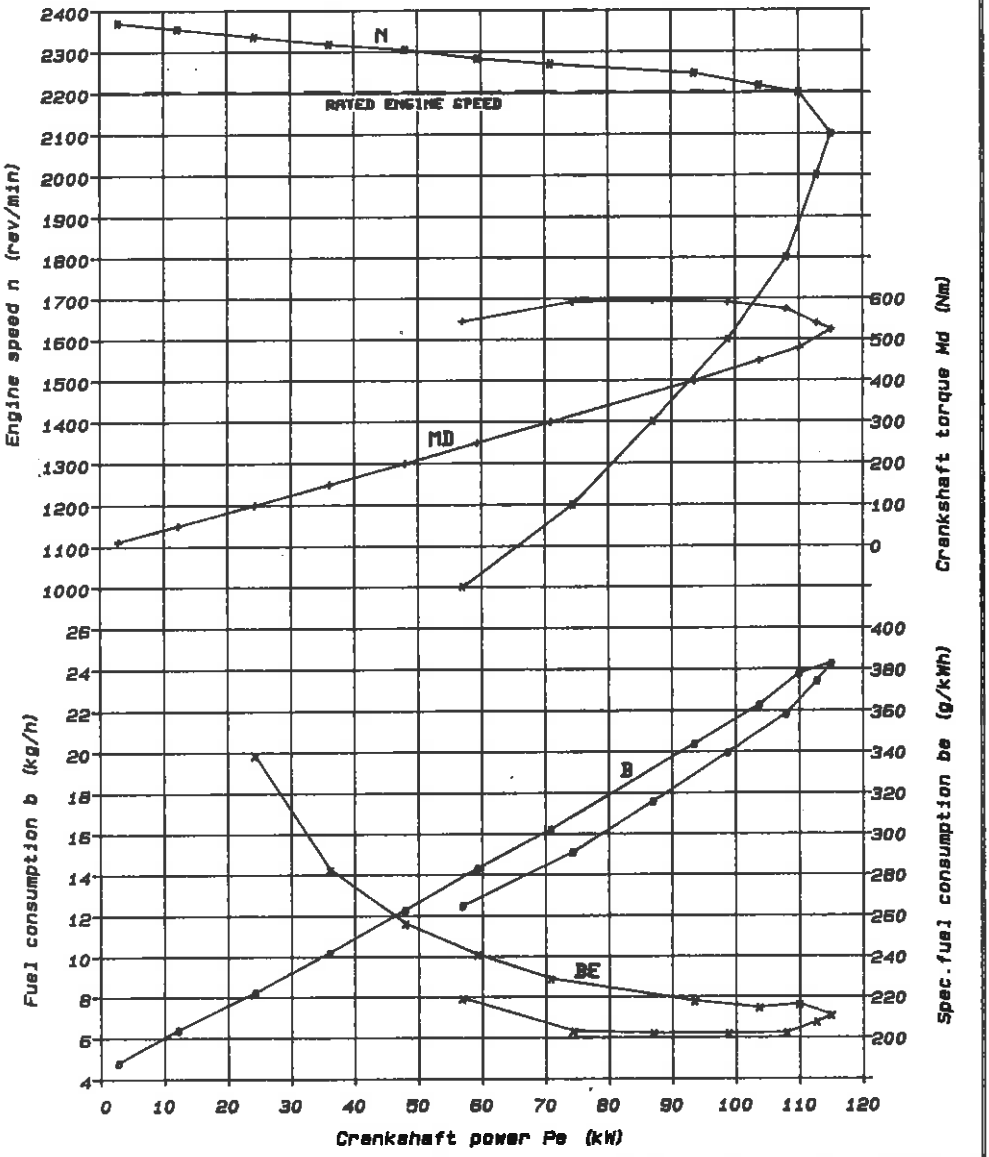
Bundesanstalt für Landtechnik Wieselburg/Erlauf, Austria Prot.Nr.: 013/89	Engine-test	STEYR-DIESELTRACTOR TYP 397.26 (8165A) MOT.TYP STEYR WD612.86



engine ser.nr. : 701	atm. pressure: 989 MBAR	fuel temp. : 23 C	signature	
tractor ser.nr.: 397.26-04717	air temper. : 18 C	d.of tests : 1988-07-12		
fuel : 0.845/15 C	coolant temp.: 89 C	test no. :		
engine oil : RINOLA X 15W40	oil temp. : 109 C	curves no. : 3	LUBER/SCHAUFLER	

31-JAN-1989 08:42 mku240

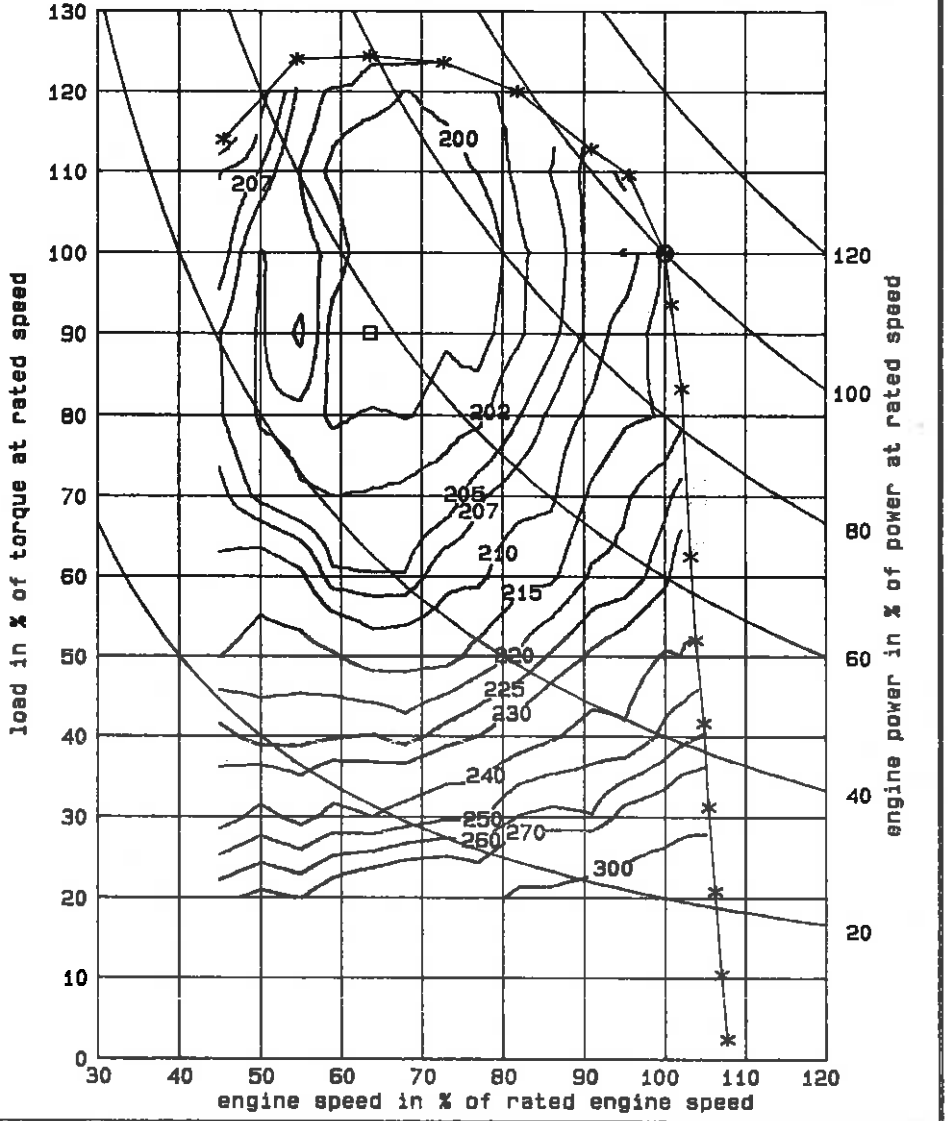
Bundesanstalt für Landtechnik Wieselburg/Erlauf, Austria Prot.Nr.: 013/89	Engine-test	STEYR-DIESELTRACTOR TYP 397.26 (8165A) MOT.TYP STEYR WD612.86



engine ser.nr. : 701	atm. pressure: 989 MBAR	fuel temp. : 23 C	signature
tractor ser.nr.: 397.26-04717	air temper. : 18 C	d.of tests : 1988-07-12	
fuel : 0.845/15 C	coolant temp.: 89 C	test no. :	
engine oil : RIMULA X 15W40	oil temp. : 109 C	curves no. : 4	LUGER/SCHAUFLER

BUNDESANSTALT FÖR LANDTECHNIK Wieselburg/Erlauf, Austria Prot.Nr.: 013/89	ENGINE PERFORMANCE CHARACTERISTIC	STEYR-DIESELTRACTOR TYP 397.26 (8165A) MOT.TYP STEYR WD612.86

□ ....min. fuel 197.44 g/kWh at n = 1400. rev/min
Md = 429.72 Nm, P = 63.0 kW
⊛ ....N = 2200. rev/min, Md = 477.5 Nm, P = 110.0 kWh



engine ser.nr. : 701	atm. pressure: 989 MBAR	fuel temp. : 23 C	signature	
tractor ser.nr.: 397.26-04717	air temper. : 18 C	d.of tests : 1988-07-12		
fuel : 0.840/15 C	coolant temp.: 88 C	test no. :		
engine oil : RIMULA X 15W40	oil temp. : 109 C	curves no. : 5	LUSER/SCHAUFLER	

EDV-PROGRAMM: MOL11-C.DAT>MOUR40.DAT

ANNEX

OECD NOISE TEST

The noise test on the driver's ear was made in conformity to the OECD-standard code.

Name and address of manufacturer of protective structure:	STEYR-DAIMLER-PUCH AG. A-4400 Steyr
Submitted for test by:	Manufacturer
Selected of test by:	Manufacturer in agreement with BLT-Wieselburg
Make/type of protective structure:	STEYR, cabine STEYR 120.11
Make/type of tractor to which it is fitted:	STEYR 397.26 Trade name: STEYR 8165 a (4 WD)
Location and date of test:	Wieselburg, 7.11.1988
Make/model/type of sound level meter:	BRÜEL & KJAER type 2203 Writer: type 2308
Type of track:	Concrete

STRENGTH TEST REPORT REFERENCE

The protective structure has been approved in accordance with the OECD-Standard codes.

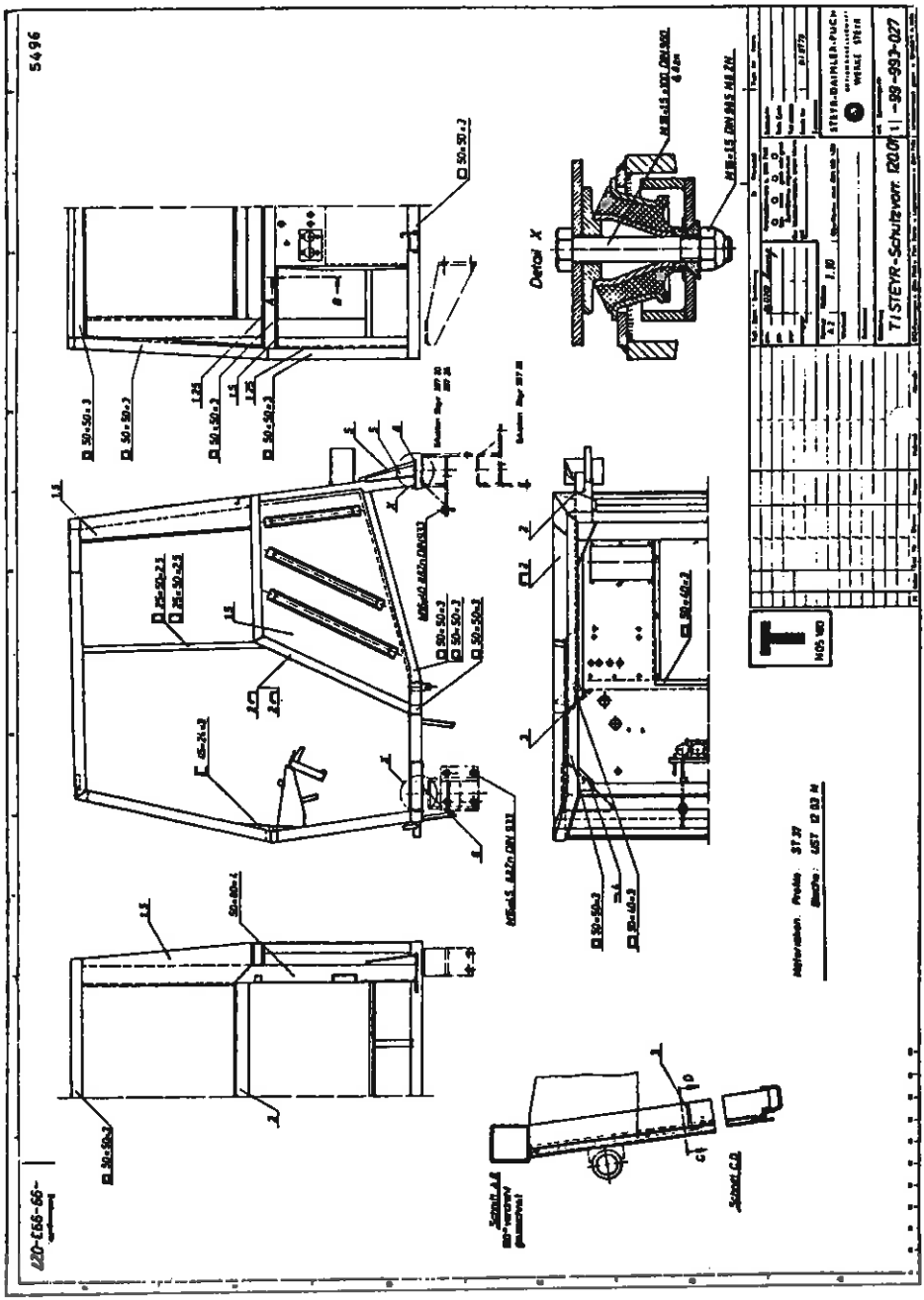
Approval number:	OECD: CSS 015/5
Date of approval:	25.10.1984 - original approbation 18.12.1987 - extension of approbation
Location and country of test of the protective structure:	CEMAGREF, Antony, France
Mass used for calculating load energies and crushing forces:	5910 kg

SPECIFICATION OF TEST TRACTOR

Serial number:	397.26 - 04717/0052
First number:	397.26 - 04568/0001
Mass of unballasted tractor, with protective structure fitted, without driver	
- front:	2066 kg
- rear:	3509 kg
- total:	5575 kg
Tyre sizes:	
Front:	14,9 R 28
Rear:	20,8 R 38
Make/model/type of seat:	Grammer DS 85 H/90 A
Position of exhaust pipe:	Mouth upwards, 2845 mm above ground
Brief description of transmission including number of gears:	

	Reference:	Checked:
Engine setting:	2200 1/min	2200 1/min
Maximum p.t.o. power:	107,31 kW	107,31 kW
Corresponding engine speed:	2100 1/min	2100 1/min
No load engine speed:	2375 1/min	2375 1/min

SPECIFICATION OF PROTECTIVE STRUCTURE



Brief description:

The safety frame model 120.01 and the safety cab model 120.11 are made of steel tubes which are welded with steel sheets to a unit. The safety frame model is fitted with front window and roof. The safety cab is additionally cladding with steel sheets and security glass and the inside is padded with acoustic damping material. In the roof is a escape hatch (650 mm x 500 mm) and the rear window is also provided for escape opening. On the left side of the cab is a doorway. Both, cab and frame are mounted on the tractor by means of 4 rubber elements.

Details of material used forsound proofing the protective structure:

Interior padding	acoustic damping and isolating material
Roof:	35 mm
Mudguards:	(side cladding) 26 mm
Floor:	rubber mat (5 mm)
Rear panel:	11 mm
Front panel:	-
Gearbox:	-
Instrument panel and steering column:	-
Glass:	SECURITY glass (5,00 mm) SECURITY glass (6,50 mm)
Draught proofing:	-
Windscreen wipers:	SWF 400 - 499, 12 V
Direction indicators:	-
Heaters and ventilators:	HORNKOHL & WOLF

TEST RESULTS

Gear	Drawbar pull at which the tractor develops the maximum sound level kN	Measured travelling speed km/h	Sound level dB(A)
Unloaded test in the gear giving the speed nearest to 7,5 km/h			
L 4 N	-	8,10	81,5
Unloaded test in the gear giving the maximum speed			
S 4 N	-	38,51	86,0
Tests with the drawbar pull for which the tractor gives the maximum sound level (combination of gear giving the nearest nominal speed to 7,5 km/h and also in any gear with a sound level increase of at least 1 dB(A)			
L 1 N	43,7	2,82	82,5
L 2 N	19,4	4,11	83,0
L 3 N	53,5	5,11	82,0
L 4 N	43,8	7,30	82,0
L 1 T	48,8	2,22	82,5
L 2 T	46,8	3,12	83,0
L 3 T	43,4	4,30	82,0
L 4 T	50,8	5,73	83,0
M 1 N	48,9	4,57	82,5
M 2 N	50,1	6,23	83,0
M 3 N	33,2	8,93	82,5
M 4 N	25,0	12,39	83,0
M 1 T	31,8	3,81	82,0
M 2 T	54,3	4,80	82,5

Gear	Drawbar pull at which the tractor develops the maximum sound level kN	Measured travelling speed km/h	Sound level dB(A)
M 3 T	44,4	6,93	83,5
M 4 T	31,6	9,79	83,0
S 1 N	19,5	14,00	83,5
S 2 N	14,9	19,41	86,0
S 3 N	7,9	27,17	85,5
S 4 N	2,2	38,51	86,0
S 1 T	25,2	11,09	83,0
S 2 T	18,4	15,52	84,5
S 3 T	12,9	21,29	83,0
S 4 T	7,5	29,83	85,0