O.E.C.D. Report No.: 1154

Bundesanstalt für Landtechnik

A-3250 Wieselburg, Austria

Dieseltractor STEYR 337.55

Trade name:

STEYR 8065 a (4 WD)



Date of approval: 8.9.1988

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
Location of tractor assembly:	Steyr
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:	65 hours
Location of test:	Wieselburg, Austria

SPECIFICATIONS OF TRACTOR

TRACTOR:

Make:	STEYR-DAIMLER-PUCH AG.
Trade name:	STEYR 8065 a
Model:	Dieseltractor STEYR 337.55
Type:	Wheel-tractor, unit construction
Number of driving wheels:	4
Serial no.:	337.55 - 2414*0536
1st serial no.:	337.55 - 2414*0536

ENGINE:

Make:	Own make
Model:	WD 311.85
Type:	4 stroke diesel engine with direct injection and exhaust turbo supercharger
Serial no.:	311.85 - 900

Cylinder:

Number/disposition:	3, vertical in line
Bore/stroke:	100/110 mm
Capacity:	2592 cm^3
Compression ratio:	16,2 : 1
Arrangement of valves:	Overhead valves
Cylinder liners:	Wet liners

Supercharging:

Make:	KÜHNLE, KOPP & KAUSCH
Model:	KKK 311.85.11.0014
Type:	Exhaust turbo supercharger
Pressure:	Up to 140 mbar

Fuel system:

Fuel feed system:	Fuel feed by gravity
Make, model and type of fuel filter:	PUROLATOR PFC-233 Filter with water trap and changeable element, filter cartridge (PER 247-F)
Capacity of fuel tank:	60 l
Make, model and type of injection pump:	BOSCH distributor injection pump VER 263-1 552 435
Serial no.:	0 460 413 007
Manufacturer's production setting of injection pump, flow rate and timing:	54^{+2}_{0} mm³/stroke at 1200 rev/min and full load $12^{+0°}_{-2°}$ before TDC at 1 mm pump stroke
Make, model and type of injectors:	BOSCH or FRIEDMANN & MAIER or OMAP BOSCH DLLA 150 S 1066 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
Governed range of engine speed:	From 600 to 2580^{+30}_{-0} rev/min engine speed
Rated engine speed:	2400 rev/min

Air cleaner:

Location of air intake:	Inside the bonnet, above the radiator
Pre-cleaner:	Incorporated in main-cleaner
Main-cleaner:	
Make:	MANN & HUMMEL or PUROLATOR
Model:	MANN & HUMMEL 45.114.92.754 PUROLATOR LVPO 045 S/10

Type:	Dry type with integrated cyclonic precleaner, with dust-drain valve and changeable paper filter insert and additional safety cartridge
Location:	Above the motor, inside the bonnet
Service intervals:	
Cyclonic pre-cleaner:	Cleaning interval: visual control, 250 hours
Main-cleaner paper insert:	Cleaning interval: when control lamp indication Changing interval: 1 year
Safety element:	Changing interval: after 5 main-cleaner paper insert cleanings or 2 years
Maintenance indication:	Electric lamp indication, -65 mbar for indication PUROLATOR IPES 65

Lubrication system:

Type of feed pump:	EATON pump forced lubrication
Type of filter:	One paper filter cartridge in full flow MANN W 940 or PUROLATOR PC 31 or KNECHT F 0371/12

Cooling system:

Type of coolant:	Water cooling; longtime frost protection down to -20° in a cooling system with a tubular radiator
Type of pump:	Centrifugal pump with double circuit water cooling
Specification of fan:	Puller, 2 driving belts
Number of fan blades:	4
Fan diameter:	420 mm
Coolant capacity:	appr. 8,5 l
Type of temperature control:	Thermostat control with electrical cooling water thermometer
Superpressure system:	max. 50 kPa (0,5 bar)

Starting system:

Make:	BOSCH
Model:	0 001 362 072
Type:	Solenoid engaged screw push starter motor
Starter motor power rating:	2,5 kW, 12 V
Cold starting aid:	Electrically, glow plug in intake pipe BERU type 184 G (0 102 024 402 11 V) BOSCH type A 250 00 1088
Safety device:	Optional

Electrical system:

Voltage:	12 V, negative earth
Generator:	Make: BOSCH 0120 488 114 Type: three phase type K 1 - 14 V 23/55 A Power: 14 V, 55 A, 770 W
Battery:	1 with 12 V, lead acid type Rating: 88 Ah at 20 hours rating

Exhaust system:

Make:	EBERSPÄCHER
Model:	16.47.286.01.000 STEYR replacement no. 337 0054 0088
Type:	Absorption-reflexion type
Location:	370 mm left of engine, 2435 mm height above ground with flap open

TRANSMISSION TO WHEELS:

Clutch:

Main clutch and p.t.o. clutch:	For travel and p.t.o.
Make:	FICHTEL & SACHS AG.
Model:	DUT 280-280
Type:	Dry double clutch with 2 plates included in the same clutch housing but independent operated, the one acting for the power take-off and the other for the gear box
Number of plates:	2
Diameter of plates:	280 mm
Method of operation:	Main clutch operated by pedal, p.t.o. clutch operated by hand lever
Front wheel drive clutch:	
Make:	STEYR
Type:	Wet multiplate clutch
Number/diameter of plates:	21 (10 outside, 11 inside)/135 mm
Method of operation:	Mechanically acting, hand lever operated

Gearbox:

Make:	Own make
Model:	TW 337
Type:	Mechanically acting gear box
Basis model:	(Optional) Reversing gear (FORWARD - REVERS) combined with 4 speed change gear and reduction gear (ROAD - FIELD) Total: 8 forward and 8 reverse speeds
Normal model:	(as tested) 2 forward and 1 reverse group (FORWARD FAST, FORWARD NORMAL, REVERSE) combined with 4 speed change gear and reduction gear (ROAD - FIELD) Total: 16 forward and 8 reverse speeds
Model with super crawler group:	(optional) Basis model with gear reduction Reduction ratio: 4,745 Total: 16 forward and 16 reverse speeds
Arrangement:	1 lever for group gear 1 lever for super crawler group 1 lever for the 4 speed gear (1 - 4) 1 handle for the reduction gear (ROAD, FIELD, O)
Available options:	Synchronised 4 speed change gear top speed 25 km/h or 30 km/h (as tested). 25 km/h model gear no. 4 not switchable in position ROAD

Rear axle and final drives:

Make:	Own make
Model:	TW 337
Type:	Central axle; pinion and bevel gear, lockable bevel gear differential, acting by planetary gears on rear wheels
Differential lock:	Type: mechanically acting from half axle to differential housing Method of engagement: foot lever operated, lockable and preselectable Method of disengagement: selfdisengaging

Front axle and final drives:

Make:	ZF-PASSAU or SIGE-MAILAND
Model:	ZF-APL 315 as tested or SIGE 001

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: mechanically engaged, hand lever operated

Optional: Automatically locking differential
ZF-PASSAU: multi-plate-clutch-type
SIGE-MAILAND: no-spin-type

Total ratios and speeds: 30 km/h model, normal model

Gear no.	Group	Number of engine revolutions for one revolution of driving wheels		Nominal travelling speed at rated engine speed to 2400 rev/min *) km/h	
-	-	field L	road S	field L	road S
1	forward normal VN	400,68	119,90	1,61	5,10
2		208,58	62,41	3,10	10,36
3		140,31	41,98	4,61	15,41
4		84,99	25,43	7,61	25,44
1	forward fast VS	341,08	102,06	1,90	6,34
2		177,55	53,13	3,64	12,18
3		119,44	35,74	5,42	18,10
4		72,35	21,65	8,94	29,88
1	reverse R	345,57	103,41	1,87	6,26
2		179,89	53,83	3,60	12,02
3		121,01	36,21	5,35	17,87
4		73,30	21,93	8,83	29,49

*) Calculated with rear tyre dynamic radius index 715 mm and test tyre equipment: rear 13,6/12 - 36 AS
front 11,2/10 - 24 AS

Number of revolutions of front wheels for one revolution of rear wheels: 1,397

POWER TAKE-OFF:

Main power take-off:

Type:	Independent and (optional) proportional to ground speed p.t.o.
Method of engagement:	Hand lever operated, mechanically engaged dry disc clutch
Number of shafts:	1
Method of changing power take-off shaft speeds:	Speed selection by hand lever and spur gear, no changing of shaft ends

Power take-off proportional to engine speed:

540 and 1000 rev/min

Location:	At rear of tractor
Diameter of power take-off shaft end:	34,9 mm
Number of splines:	6, in conformity with ISO R 500 - 1979, type I
Height above ground:	604 mm with tyre dynamic radius index of 715 mm
Distance from the median plane of the tractor:	0
Distance behind rear wheel axis:	295 mm
P.t.o. speed at rated engine speed:	634 rev/min resp. 1127 rev/min
Engine speed at standard power take-off speeds:	2044 rev/min resp. 2130 rev/min
Ratio of rotation speeds (engine speed/ p.t.o. speed):	3,79 resp. 2,13
Power restriction and max. torque:	None
Direction of rotation (viewed from behind tractor):	Clockwise

Optional power-take-off: Not on tested tractor

Power take-off proportional to engine speed with additional speeds:

Location:	Same p.t.o. shaft
P.t.o. speeds at rated engine speed:	810 rev/min resp. 1440 rev/min
Ratio of rotation speeds (engine speed/ p.t.o. speed):	2,96 resp. 1,67

Power take-off proportional to ground speed:

Same p.t.o. shaft as proportional to engine speed p.t.o.
540 and 1000 rev/min p.t.o. disengaged
Only engageable when reduction gear is in 0 (NEUTRAL = stationary) or L (FIELD) position
Driven by main clutch (dry plate type), group gear, 4 speed change gear, reduction gear (only in position 0 or L), dog clutch, p.t.o. shaft

Driving mode (reduction gear in L position):

Travelling distance for one revolution of p.t.o. shaft:	0,140 m with 715 mm tyre dynamic radius index
Number of p.t.o. shaft revolutions for one revolution of rear wheels:	32,17
Direction of rotation with forward gear engaged (viewed from behind tractor):	Clockwise

Stationary mode (reduction gear in 0 position, tractor not driving):

Speeds at 2400 rev/min rated engine speed

Normal model, 30 km/h:

Group gear	VN	VS	R
Gear no.: 1	193	226	223
2	370	435	429
3	550	646	638
4	908	1067	1053
Direction of rotation	clockwise	clockwise	anticlockwise
	viewed from behind tractor		

Power take-off proportional to engine speed:

Middle p.t.o.:	Optional, not on tested tractor
Location:	On the left side of the gear box 625 mm above ground, 651 mm before rear axle, 186,5 mm left of median plane of tractor
Dimension of p.t.o. shaft end:	ISO R 500 - 1979, type I (35 mm, 6 splines)
P.t.o. speed at rated engine speed:	1183 rev/min
Engine speed at standard p.t.o. speed:	2029 rev/min
Power restriction and max. torque:	None
Direction of rotation (viewed from behind tractor):	Clockwise
Front p.t.o.:	Optional, not on tested tractor
	Version I:
Location:	In front of tractor, direction frontwards 742 mm above ground, 407 mm before front axle, 310 mm left of median plane of tractor Driven by middle p.t.o. and propeller shaft with intermediate bearing
Dimension of p.t.o. shaft end:	ISO R 500 - 1979, type I (35 mm, 6 splines)
P.t.o. speed at rated engine speed:	1183 rev/min
Ratio of rotation speed:	2,03
Power restriction and max. torque:	None
Direction of rotation (viewed from front of tractor):	Anticlockwise
	Version II:
Location:	In front of tractor, direction frontwards 657 mm above ground, 650 mm before front axle, in median plane Driven directly from the engine by a propeller-shaft, hydraulically activated wet multiplate clutch (dia 132 mm) and spur gear transmission. A separate hydraulic circuit with 18^{+2}_{-0} bar is switching the clutch

Dimension of p.t.o. shaft end:	ISO R 500 - 1979, type I (35 mm, 6 splines)
P.t.o. speed at rated engine speed:	1158 rev/min
Ratio of rotation speed:	2,07
Power restriction and max. torque:	None
Direction of rotation (viewed from front of tractor):	Anticlockwise

Belt pulley: Optional, not on tested tractor

Location:	At rear of tractor, angle transmission on rear p.t.o., all speeds of rear p.t.o. engageable
Dimensions of belt pulley:	250 mm diameter, 160 mm width
Number of pulley revolutions for one revolution of p.t.o.:	2,23

POWER LIFT:

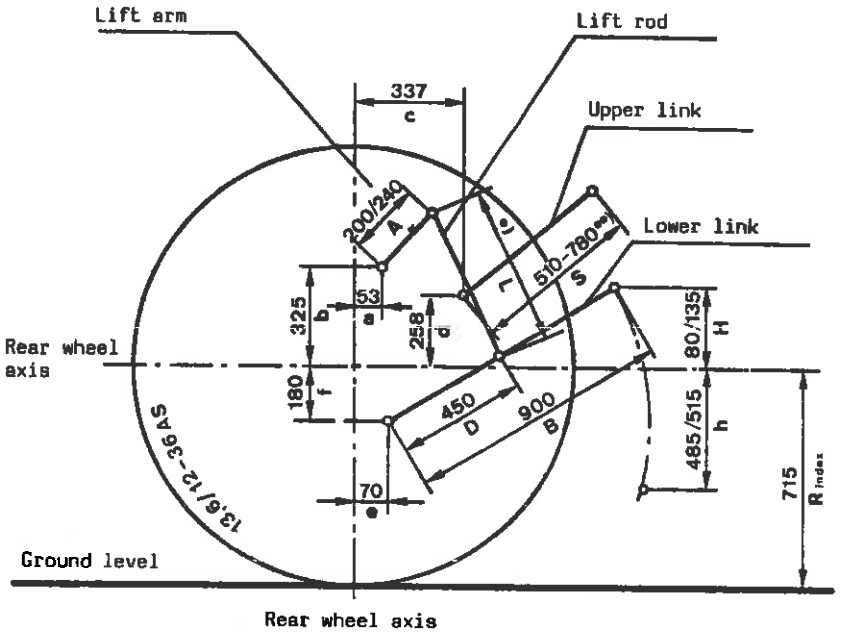
In the rear:	
Make:	Own make
Type:	Draught control with two-stage pull adjustment and upper link sensing, position control, floating position
Type of hydraulic system:	Open center type
Type and number of cylinder:	One single acting type 152 mm stroke, 85 mm diameter
Type of linkage lock for transport:	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 by gear transmission
Type and number of filter:	One filter cartridge in suction pipe (common filter with gear box)
Site of oil reservoir:	Gear box

Type, number and location of tapping points:	Up to 6 tapping points (3 independent oil circuits for double acting cylinders) 400 mm behind rear axle, 240 - 420 mm above rear axle, 150 mm right of median plane In accordance to ISO/DIS 5675 - 1979
Maximum volume of oil available to external cylinders:	17 l in stationary mode 10 l in driving mode
In the front:	Not on tested tractor
Make:	Own make
Type:	Separate frame, open system
Type of hydraulic system:	Open center type Common oil supply from gear box with separate control unit
Type and number of cylinder:	One single acting cylinder Bore/stroke: 60/250 mm
Type of linkage lock for transport:	Hydraulically by throttle valve

Three-point-linkage:

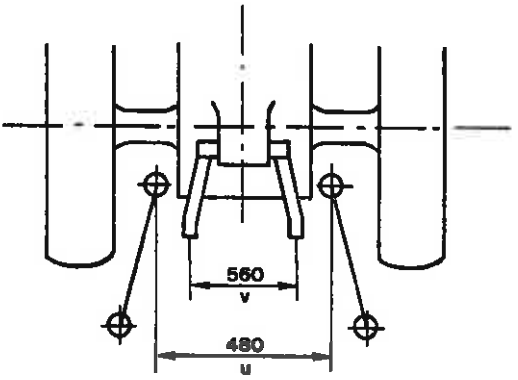
In the rear:	Category I/II, in conformity with ISO 730/1 - 1977 STEYR SIMPLEMATIK standard linkage, double hole lift arms
In the front:	Not on tested tractor Category II

Figures of power lift:



*) Left lift rod adjustable from 535 mm to 630 mm length by a thread, right lift rod adjustable from 505 mm to 630 mm by gear and thread

**) Upper link length adjustable from 510 mm to 780 mm



Dimensions of linkage geometry:

			Dimension of range mm	Settings used in test mm
Length of lift arms:		(A)	200/240	200/240
Length of lower links:		(B)	900	900
Distance of lift arm pivot points from rear wheel axis:	horizontally	(a)	53	53
	vertically	(b)	325	325
Horizontal distance between the 2 lower link points:		(u)	480	480
Horizontal distance between the 2 lift arm end points:		(v)	560	560
Length of upper link:		(S)	510 - 780	625 Cat. I 650 Cat. II
Distance of upper link pivot point from rear wheel axis:	horizontally	(c)	337	337
	vertically	(d)	258	258
Distance of lower link pivot point from rear wheel axis:	horizontally	(e)	70	70
	vertically	(f)	180	180

Height of lower link hitch points relative to the rear wheel axis (715 mm above ground)*):

		Min. lift rod length		During test		Max. lift rod length	
Length of lift arms	(A) mm	200	240	200	240	200	240
Linkage distance of lift rod	(D) mm	450					
Length of lift rods	(L) mm	535		630	605	630	
Lowest position	(h) mm	240	350	485	515	485	590
Highest position	(H) mm	260	255	80	135	80	75

Height above ground of lower hitch points when locked in transport position*): Any height within lift range

*) With dynamic radius index 715 mm

TRAILER HITCH:

Type:	Fork type
Hole diameter:	31 mm
Height above ground:	[772/800/832/860 mm], (433/461 mm)
Distance of hitch point from rear wheel axis, horizontally:	[447 mm], (367 mm)
Distance of hitch point from power take-off shaft end,	
vertically:	below (173/145 mm); above [167/195/227/255 mm]
horizontally:	rearwards [152 mm], (72 mm)
Maximum vertical permissible load:	15 kN

or

ROCKINGER, model 248 U 14 OBW

Type:	Fork type
Hole diameter:	30 mm
Height above ground:	773/785 mm
Distance of hitch point from rear wheel axis, horizontally:	469 mm
Distance of hitch point from power take-off shaft end,	
vertically:	above 168/180 mm
horizontally:	rearwards 174 mm
Maximum vertical permissible load:	15 kN

or

Own make (italian equipment)

Type:	Fork type
Hole diameter:	28 mm
Height above ground:	408/428/769/789 mm
Distance of hitch point from rear wheel axis, horizontally:	407 mm
Distance of hitch point from power take-off shaft end,	
vertically:	below 197/177 mm; above 164/184 mm
horizontally:	rearwards 112 mm
Maximum vertical permissible load:	15 kN

or

	ROCKINGER, model 273 J
Type:	Fork type
Hole diameter:	31 mm
Height above ground:	773/785 mm
Distance of hitch point from rear wheel axis, horizontally:	469 mm
Distance of hitch point from power take-off shaft end, vertically:	above 168/180 mm
horizontally:	rearwards 174 mm
Maximum vertical permissible load:	15 kN

or

	ROCKINGER, model 248 JB
Type:	Fork type
Hole diameter:	30 mm
Height above ground:	652/703/735/786 mm
Distance of hitch point from rear wheel axis, horizontally:	462 mm
Distance of hitch point from power take-off shaft end, vertically:	above 47/98/130/181 mm
horizontally:	rearwards 167 mm
Maximum vertical permissible load:	15 kN

Towing hitch:

Type:	Fork type
Hole diameter:	31 mm
Height above ground:	700 mm
Distance from front axle axis:	frontwards from 420 to 560 mm (dependent from number of front ballast)

HOLED DRAWBAR:	Category I	Category II
Length:	683 mm	825 mm
Number of holes (with central hole):	5	7
Distance between holes:	130 mm	115 mm
Hole diameter:	33 mm	33 mm
Thickness/width of the drawbar:	30/80 mm	30/80 mm
Height above ground min.: (240 mm lift arm length, 630 mm lift rod length)	125 mm	125 mm
max.: (200 mm lift arm length, 535 mm lift rod length)	975 mm	975 mm
Horizontal distance to power take-off shaft end (rear):	675 mm	675 mm

STEERING:

Make:	DANFOSS or ZF-SCHWÄBISCH GMÜND
Model:	DANFOSS OSPC 125 OR or ZF 8492 DANFOSS OSPC 80 OR or ZF 8491
Type:	Hydrostatic steering
Method of operation:	Steering wheel acting on front wheels
Pump:	Gear pump, directly driven by engine
Rams:	Integrated in block of front axle 60 mm diameter, 32 mm diameter of rod, 206 mm stroke
Working pressure:	10,0 MPa (100 bar)

BRAKES:

Service brake:

Make:	Own make
Type:	Simplex drum brakes 230 mm diameter, 60 mm width
Method of operation:	Pedal operated, mechanically transmission
Trailer braking take-off:	Optional, not on tested tractor In conformity with national regulations, hydraulic or air brake system 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:

Type:	Mechanically acting on the same drum brakes as service brake
Optional:	Separate mechanically transmission
Method of operation:	Hand lever with ratched

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:	2025 mm

Track width adjustment:

	Minimum mm	Maximum mm	Adjustment method
Front	1532	1450	wheels turned around
Rear	1350	1506	

PROTECTIVE STRUCTURE:

Make:	Own make
Model:	STEYR 100.03
Manufacturer's name and address:	STEYR-DAIMLER-PUCH AG., Steyr, Austria
Protective device:	Frame, completable to full closed cab, not tilting
OECD-approval no.:	CSD 01059/1

DRIVER'S SEAT:

Make:	KLEPP
Type:	Elastomat 1050 S; tested on tractor according to national regulation (Prot.Nr. 066/86)
Type of suspension:	2 parallel levers with a column-guiding and 2 tension springs, adjustable to driver's weight
Type of damping:	Hydraulically damping

Range of adjustment,
longitudinal: 120 mm
vertical: Combined with the longitudinal adjustment (12° inclination of the mounting plate)

MISCELLANEOUS:

Additional seat

Location: -

Number of places: -

LIGHTING:

	*) Height above ground of centre mm	Size mm	**) Distance from outside edge to median plane of tractor mm
Head lights	1125	140 x 75	225
Side lights	1475	90 x 40	658
Rear lights	1485	90 x 40	827
Brake lights			
Direction indicators front	1435	90 x 40	658
Direction indicators rear	1545	90 x 40	827
Reflectors	1340 800	100 x 60 70 dia	830 427

*) Measured with tyre dyn. radius index at rear 715 mm and 515 mm at front

**) With overall width of 1855 mm (measured on the outside edge of the rear wheels)

TEST CONDITIONS

Overall dimensions:

	Length	Width *)	Height at top of	
			exhaust silencer	protective structure
	mm	mm	mm	
Ballasted	3645	1855	2355/2435**	2305
Unballasted	3505	1855	2355/2435**	2305

*) Measured on the outside edges of the rear wheels
**) Without flap/with flap open

Ground clearance:
(unballasted tractor)

Clearance limiting part:
400 mm under the gear box
400 mm under the front axle
390 mm under the trailer hitch mounting console

Tractor mass: With tanks full

		Without driver	With driver
		kg	kg
Unballasted	Front	1085	1095
	Rear	1590	1655
	Total	2675	2750
Ballasted	Front	1265	1280
	Rear	2235	2295
	Total	3500	3575

Ballast:

	Number of weights	Mass total kg	Water kg
Front	5	148	-
Rear	4 + 2	317	2 x 180
Optional	-	-	-

Tyres and track width specifications:

Tyres:

	Front	Rear
Dimensions	11,2/10 - 24 AS rim: W 9 x 24	13,6/12 - 36 AS rim: W 12 x 36
Ply rating	6	6
Type	diagonal carcass	diagonal carcass
Max. load (tyre manufacturer's)	10,25 kN resp. 14,35 kN with 6 km/h speed limit	15,85 kN resp. 22,18 kN with 8 km/h speed limit
Max. load (tractor manufacturer's)	21,58 kN (2200 kg)	29,43 kN (3000 kg)
Inflation pressure (tyre manufacturer's)	1,8 bar resp. 2,25 bar with overload	1,6 bar resp. 2,0 bar with overload
Dynamic radius index	515 mm	715 mm
Chosen track width	1450 mm	1506 mm

Oil and lubrication:

Capacity and change interval:

	Capacity (dm^3)	Oil change (h)	Filter change (h)
Engine	7,0	250	250
Gear box and rear axle	27,5	1000 or 2 years	1000
Front axle differential	4,5	1000	-
Final drive front	2 x 0,8	1000	-
Final drive rear	2 x 2,8	1000 or 2 years	-
Hydraulic system	common with gear box	-	-
Steering	2,6	check 250	1000

Specifications:

	Recommended:	Used during test:
Engine oil:		
Type:	One range viscosity oil	
Viscosity:	SAE 30 summer SAE 20 W-20 winter	
Classification:	API CD, MIL-L-2104 C	SHELL RIMULA X 10 W
Transmission oils:		
Type:	Transmission oil	
Viscosity:	SAE 80 W	
Classification:	API GL 4, MIL-L-2105	SHELL SPIRAX
Hydraulic fluid:	Common oil circuits with transmission	
Steering oil:		
Type:	Hydraulic oil or automatic transmission oil	
Classification:	ATF Dexron II D	SHELL
Transmission oil of front axle:		
Type:	Transmission oil	
Viscosity:	SAE 90, 85 W-90	
Classification:	Differential: API GL 5, MIL-L-2105 B with limited slip additives	SHELL SPIRAX
	Final drives: API GL 5, MIL-L-2105 B/C	SHELL SPIRAX
Rear axle final drives:		
Type:	Transmission oil	
Viscosity:	SAE 80 W	
Classification:	MIL-L-2105, API GL 4	
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:	18

Fuel:

Type:	ELAN diesel fuel In conformity with national standard according to DIN 51601
Density at 15°C:	0,841 g/cm^3

TEST RESULTS

COMPULSORY TEST:

Main power take-off performance

Date and location of tests: 20.10.1987, Wieselburg, Austria
Type of dynamometer: SCHENCK eddy-current brake W 780

Main test on: ISO R 500 - 1979, type 1 (DIN 9611) - 540 rev/min

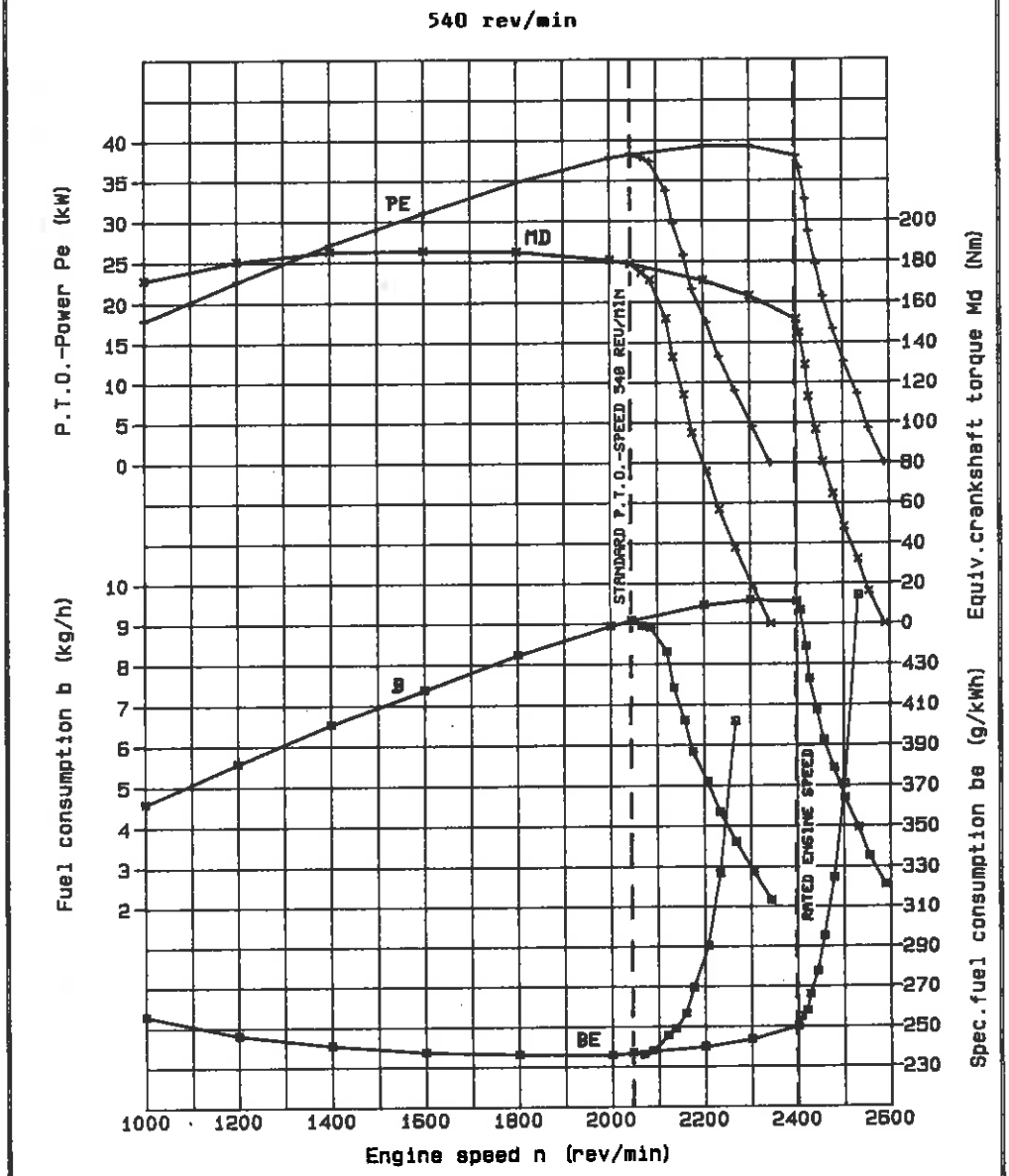
Power	Speed		Fuel consumption		Specific energy
	engine	p.t.o.	hourly	specific	
kW	rev/min	rev/min	kg/h l/h	g/kWh	kWh/l
MAXIMUM POWER					
Maximum power - 2 hours test					
38,70	2400	634	9,56 11,37	247,0	3,40
39,39	2200	581	9,46 11,25	240,0	3,50
Power at rated engine speed					
38,70	2400	634	9,56 11,37	247,0	3,40
Standard power take-off speed					
38,30	2045	540	9,10 10,82	240,5	3,55
PART LOADS					
(i) the torque corresponding to maximum power at rated engine speed					
38,70	2400	634	9,56 11.37	247,0	3,40
(ii) 85 % of torque obtained in (i)					
32,70	2420	639	8,44 10,04	258,0	3,26
(iii) 75 % of torque defined in (ii)					
24,75	2443	645	6,88 8,18	278,0	3,03
(iv) 50 % of torque defined in (ii)					
16,75	2480	655	5,44 6,47	325,0	2,59
(v) 25 % of torque defined in (ii)					
8,56	2533	669	3,97 4,72	464,5	1,81
(vi) unloaded					
0	2590	684	2,56 3,04	-	-

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					
38,30	2045	540	9,10 10,82	240,5	3,55
(ii) 85 % of torque obtained at maximum power					
33,80	2121	560	8,31 9,88	246,0	3,42
(iii) 75 % of torque defined in (ii)					
25,80	2159	570	6,63 7,88	257,0	3,27
(iv) 50 % of torque defined in (ii)					
17,59	2208	583	5,12 6,09	291,0	2,89
(v) 25 % of torque defined in (ii)					
9,03	2268	599	3,63 4,33	402,0	2,09
(vi) unloaded					
0	2344	619	2,16 2,57	-	-

No load maximum engine speed: 2590 rev/min
Equivalent crankshaft torque
at maximum power: 154 Nm and rated engine speed
Maximum equivalent crankshaft torque: 185,5 Nm at 1400 - 1600 rev/min of engine

Mean atmospheric conditions	temperature:	19°C
	pressure:	992 mbar
	rel. humidity:	85 %
Maximum temperatures.	coolant:	95°C
	engine oil:	120°C
	fuel:	18°C
	engine air intake:	27°C

BUNDESANSTALT FÖR LANDTECHNIK Wieselburg/Erlauf, Austria Prot.Nr.: 097/87	P.T.O.-test	STEYR-DIESELTRACTOR TYP 337.55 (8065A) MOT.TYP STEYR WD311.85

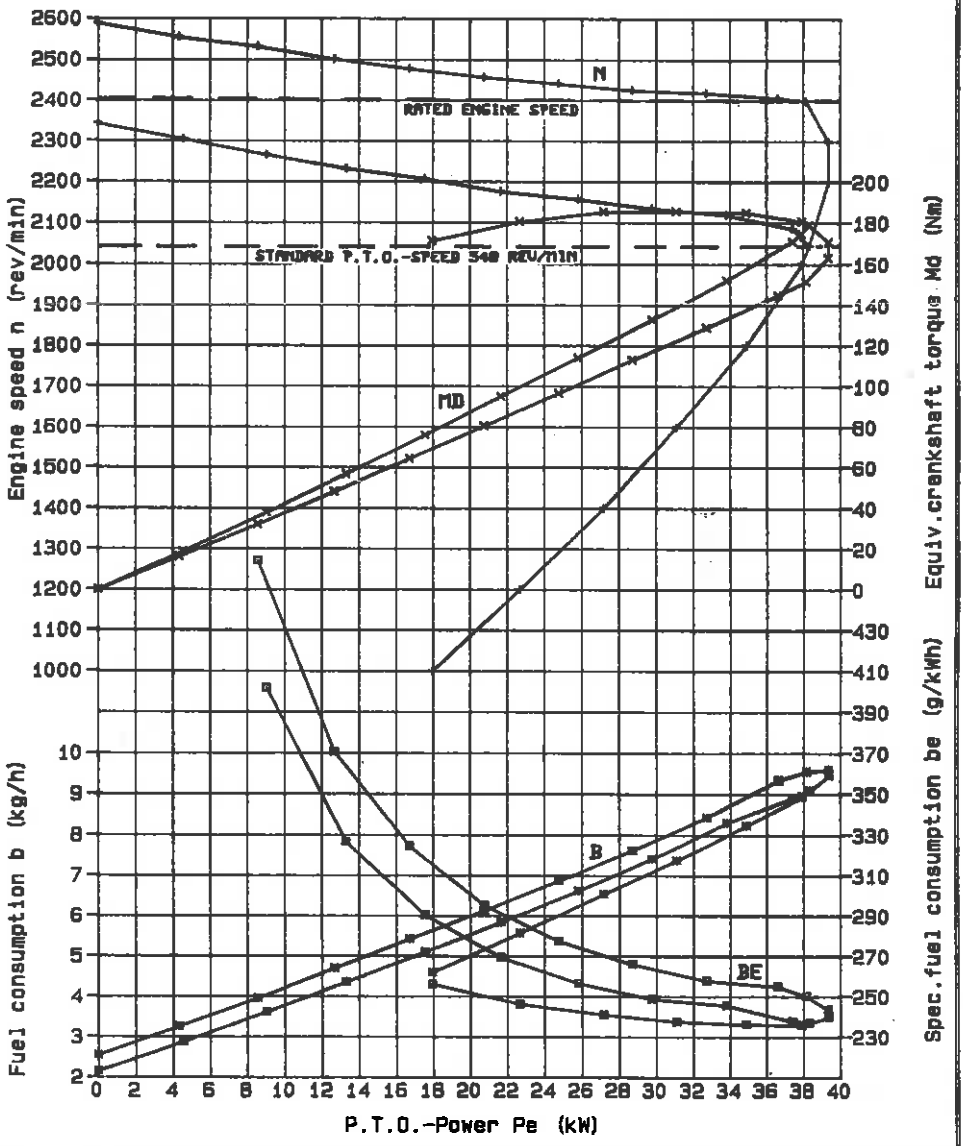


engine ser.nr. : 900	atm. pressure: 992 MBAR	fuel temp. : 16 C	signature
tractor ser.nr.: 337.55-24141	air temper. : 19 C	d.of tests : 1987-10-20	
fuel : 0.841/15 C	coolant temp.: 95 C	test no. : 780-382-87	
engine oil : RIMULA X 10W	oil temp. : 120 C	curves no. : 1	LUGER

06-NOV-87 EDV-RK05: MKL - DATEI: MKU190 Z540

BUNDESANSTALT FÜR LANDTECHNIK Wieselburg/Erlauf, Austria Prot.Nr.: 097/87	P.T.O.-test	STEYR-DIESELTRACTOR TYP 337.55 (8065A) MOT.TYP STEYR WD311.85

540 rev/min



engine ser.nr. : 900	atm. pressure: 992 MBAR	fuel temp. : 18 C	signature
tractor ser.nr.: 337.55-24141	air temper. : 19 C	d.of tests : 1987-10-20	
fuel : 0.841/15 C	coolant temp.: 95 C	test no. : 780-382-87	
engine oil : RIMULA X 10W	oil temp. : 120 C	curves no. : 2	LUGER

HYDRAULIC POWER AND LIFTING FORCE:

Date of tests: 20.1.1988

Hydraulic power test:

Sustained pressure with relief valve open: 18,0 MPa (180 bar) pump stalled not

Pump delivery rate at minimum pressure (at rated engine speed): 42 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	41	16,74	11,44
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	40	17,50	11,66

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: 18,0 MPa (180 bar)

Power lift test:

	at the hitch point	on the frame	
		460 mm mast height	610 mm mast height
Height of lower hitch points above ground in down position *)	230 /200 mm	230 /200 mm	230 /200 mm
Vertical movement *)	565/650 mm	565/650 mm	565/650 mm
Maximum corrected force exerted through full range*)	17,4 /15,6 kN	16,5 /13,6 kN	14,2 /11,0 kN
Corresponding pressure of hydraulic fluid	167 bar	167 bar	167 bar
Moment about rear wheel axis *)	16,88 /15,13 kNm	26,07 / 21,49 kNm	22,44 / 17,38 kNm
Maximum tilt angle of mast from vertical (+)	-	from +2° to 0° and to +4°	from -6° to 0° and to +9°

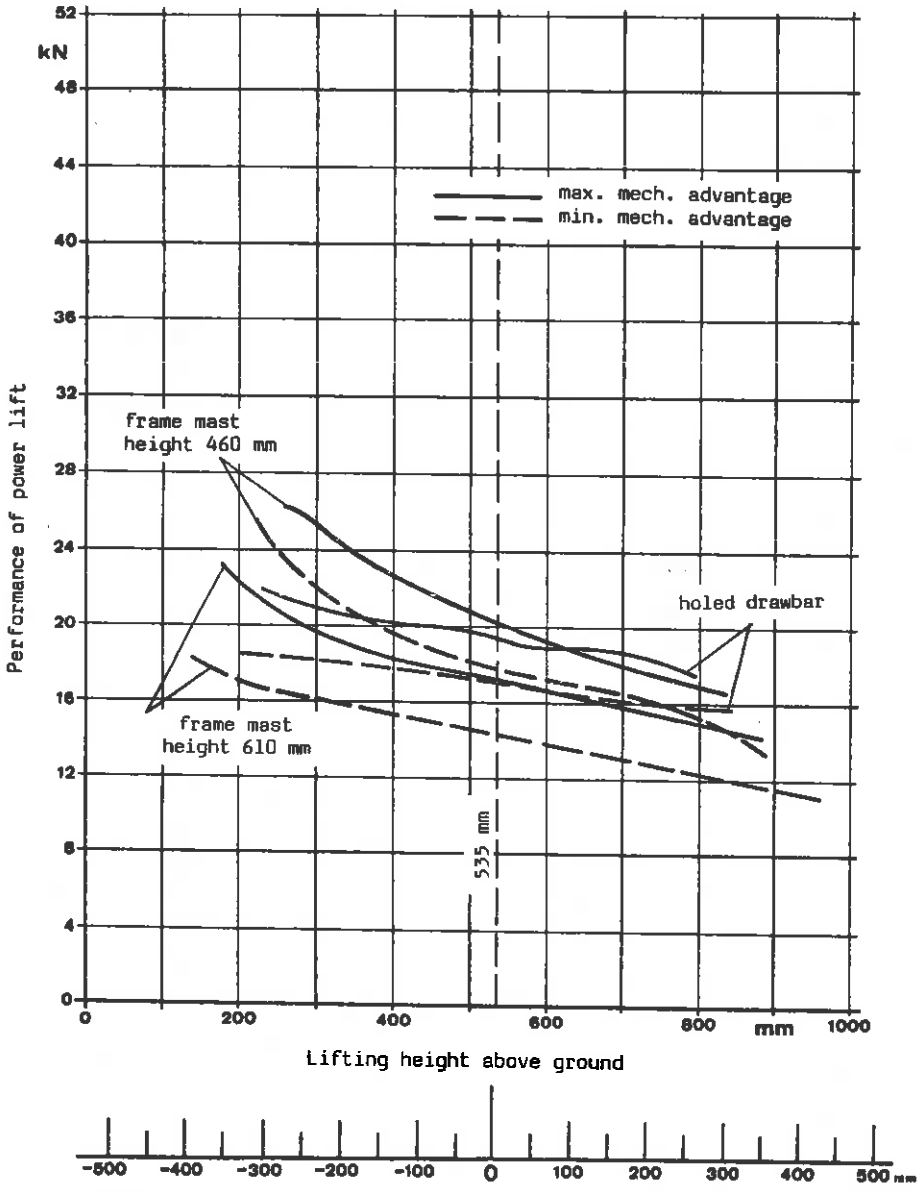
*) Max./min.mech. advantage
Lift rod length max.mech. advantage: 630 mm
Lift rod length min.mech. advantage: 605 mm

Linkage settings for test: See table and figure in specifications

Lifting heights relative to the horizontal plane including the lower link pivot points

mm		-390	-355	-330	-300	-270	-200	-100	0	+100	+200	+255	+285	+340	+420
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), 90 % of the actual relief valve pressure setting															
at the hitch point kN	max.mech. advantage				21,6	21,0	20,4	19,9	19,2	18,6	18,2	17,4			
	min.mech. advantage			18,2	18,2	18,0	17,8	17,4	16,8	16,0	15,8	15,7	15,6		
at the frame kN (460 mm mast height)	max.mech. advantage					25,8	23,8	21,6	19,9	18,5	17,3	16,8	16,5		
	min.mech. advantage				24,4	23,0	20,8	18,8	17,6	16,8	16,0	15,2	14,8	13,6	
at the frame kN (610 mm mast height)	max.mech. advantage		22,6	21,6	20,7	20,0	18,8	17,8	17,0	16,3	15,4	14,9	14,6	14,2	
	min.mech. advantage	17,8	17,1	16,7	16,5	16,3	15,7	15,0	14,2	13,5	12,7	12,3	12,0	11,6	11,0

Performance of power lift:



Height relative to the horizontal plane including the lower link pivot points (dyn. radius index 715 mm)

Drawbar performance:

Date of tests: 11.4.1988

Type of track: Concrete

Height of drawbar above ground: unballasted 390 mm, ballasted 390 mm

Tyre inflation pressure: front: unballasted 100 kPa, ballasted 100 kPa
rear: unballasted 110 kPa, ballasted 110 kPa

Tyre sizes: front: 10 - 24 AS, PR 6; rear: 12 - 36 AS, PR 6

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)													
LVN 2	19,50	26,454	2,653	2437	15,0	-	-	23	85	108	19	60	99,9
LVS 2	22,93	26,450	3,121	2427	15,0	-	-	23	84	108	19	60	99,9
LVN 3	28,58	26,453	3,889	2412	15,0	333,0	2,525	22	85	109	16	62	99,9
SVN 1	32,01	24,047	4,792	2400	10,4	300,0	2,803	22	86	107	17	61	99,9
LVS 3	31,32	23,122	4,874	2400	9,3	306,5	2,742	23	87	107	17	60	99,9
SVS 1	32,42	20,051	5,821	2400	6,9	296,0	2,839	21	85	104	15	62	99,9
LVN 4	32,16	16,267	7,116	2400	5,8	298,5	2,816	19	84	103	18	62	99,9
LVS 4	32,28	13,790	8,427	2400	5,1	297,5	2,827	19	84	100	17	60	99,9
SVN 2	32,68	11,971	9,828	2400	4,5	294,0	2,862	16	85	99	16	62	99,9
SVS 2	31,95	9,911	11,606	2400	4,0	300,5	2,798	19	85	98	16	62	99,9
SVN 3	30,81	7,502	14,788	2400	3,4	311,5	2,698	18	83	97	16	62	99,9

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)													
LVN 1	13,48	35,375	1,372	2477	15,0	-	-	17	85	102	7	53	99,0
LVS 1	16,02	35,373	1,631	2457	15,0	-	-	17	85	103	7	53	99,0
LVN 2	25,57	35,372	2,603	2420	15,0	372,5	2,239	17	85	104	8	52	99,0
LVS 2	29,82	35,373	3,035	2400	15,0	322,0	2,611	17	87	105	8	52	99,0
LVN 3	32,32	27,687	4,201	2400	7,0	297,0	2,830	15	85	102	7	53	99,0
SVN 1	33,03	24,025	4,950	2400	6,2	290,5	2,892	12	84	102	6	53	99,0
LVS 3	32,15	23,134	5,003	2400	5,8	298,5	2,815	12	84	102	6	53	99,0
SVS 1	33,07	20,190	5,897	2400	5,1	290,5	2,986	14	86	104	8	52	99,0
LVN 4	32,34	16,257	7,160	2400	4,0	297,0	2,832	12	85	98	8	51	99,0
LVS 4	31,68	13,477	8,464	2400	3,4	303,0	2,774	12	85	97	7	52	99,0
SVN 2	32,22	11,786	9,842	2400	3,1	298,0	2,821	12	85	98	8	50	99,0
SVS 2	31,05	9,620	11,621	2400	2,6	309,0	2,719	11	85	97	6	51	99,0
(iii) Five-hour-test at 75 % of pull at maximum power													
SVS 1	25,36	15,165	6,021	2418	3,9	375,5	2,240	42	88	114	23	55	99,3
(iv) Five-hour-test at pull corresponding to 15 % wheelslip in test (ii)													
LVS 2	29,97	35,370	3,050	2402	15,0	320,5	2,624	56	90	118	22	50	99,2

Oil consumption during 10 hours duration of tests (iii) and (iv): 39 g/h

TURNING AREA AND TURNING CIRCLE:

Wheel equipment: front: 11,2 - 24 AS, 6 PR
rear: 13,6 - 36 AS, 6 PR

Track of wheel: front: 1450 mm
rear: 1506 mm

Results *)	With brakes		Without brakes	
	right-hand	left-hand	right-hand	left-hand
	m	m	m	m
Radius of turning area	4,18/4,13	4,31/4,84	5,16/4,72	5,23/4,92
Radius of turning circle	3,92/3,87	4,05/4,58	4,90/4,59	4,97/4,66

*) Four wheel drive switched: ON/OFF

LOCATION OF CENTRE OF GRAVITY:

	mm
Height above ground	842,0
Distance forward from the vertical plane containing the axis of the rear wheels	812,0
Distance from the median plane of the tractor, left-side	13,7

BRAKING:

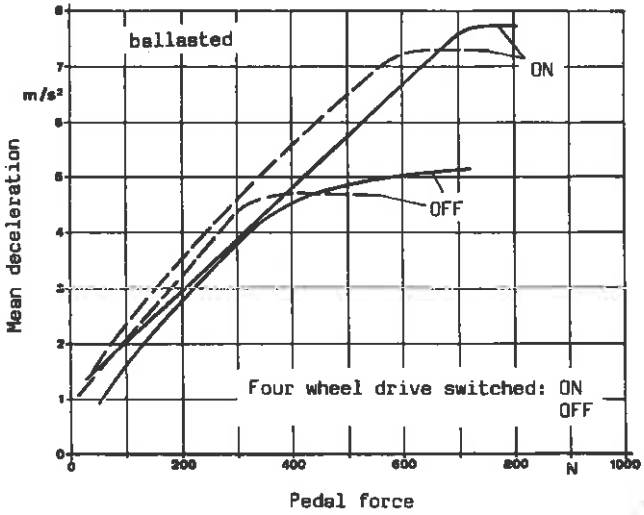
Date of tests: 20.4.1988
Type of track: Concrete
Type of decelerometer: Moto-Meter Nr. 03382 (Kombi-Schreiber)

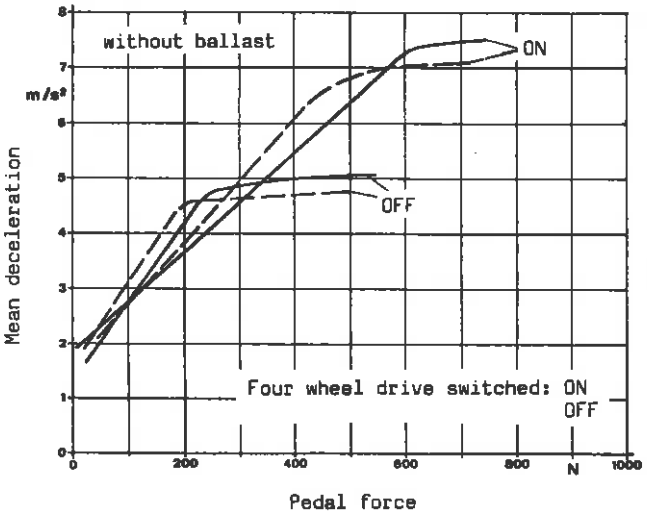
Tractor mass during brake tests (with driver):

	Front kg	Rear kg	Total kg
Ballasted	1280	2295	3575
Unballasted	1095	1655	2750

Service brake:

Four-wheel-drive switched ON and OFF
Type-0-test (cold brakes) ————————, Type-I-(fade test) — — — —





Speed before application of brakes: 30,13 km/h
The tractor brakes were heated by towing of the tractor for 1 km.

Maximum deviation of tractor from its original course:	None
Abnormale vibration:	None

Parking brake device test:

	Ballasted tractor on 18 % slop	
	up	down
Braking device control force	170 N	120 N

MEASUREMENT OF EXTERNAL NOISE LEVEL:

Date of tests:	11.4.1988
Type of sound level meter:	BRÜEL & KJAER 2209 and 2308
Type of track:	Concrete
Gear number:	VS 4
Travelling speed before acceleration:	22,6 km/h
Sound level:	82 dB(A)

OPTIONAL TESTS

Main power take-off performance

Date and location of tests: 21.10.1987, 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

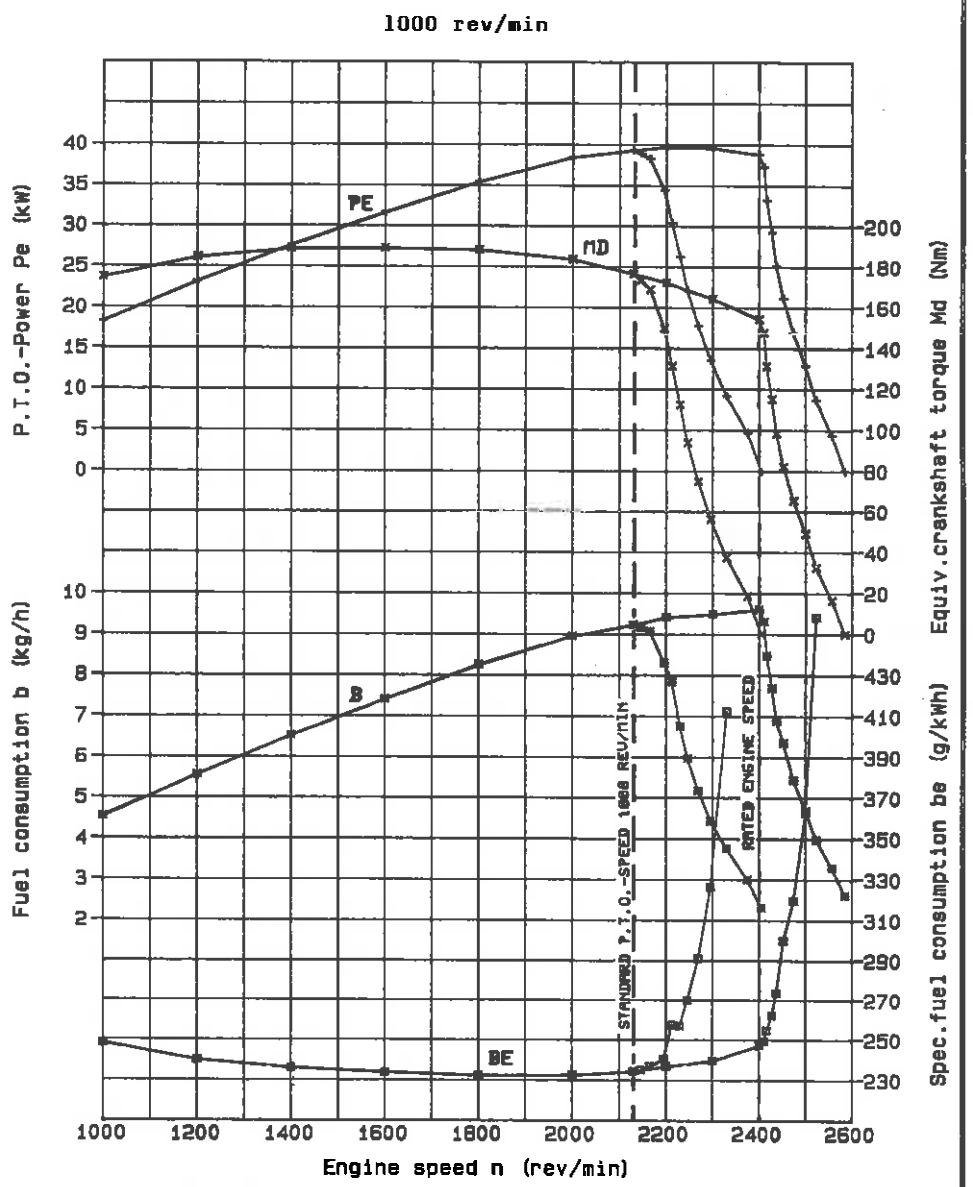
Power	Speed		Fuel consumption		Specific energy
	engine	p.t.o.	hourly	specific	
kW	rev/min	rev/min	kg/h l/h	g/kWh	kWh/l
MAXIMUM POWER					
Maximum power - 2 hours test					
38,88	2400	1127	9,26 11,44	247,5	3,40
39,77	2200	1033	9,42 11,20	237,0	3,55
Power at rated engine speed					
38,88	2400	1127	9,62 11,44	247,5	3,40
Standard power take-off speed					
39,40	2130	1000	9,24 10,99	234,5	3,59
PART LOADS					
(i) the torque corresponding to maximum power at rated engine speed					
38,88	2400	1127	9,62 11,44	247,5	3,40
(ii) 85 % of torque obtained in (i)					
33,28	2417	1135	8,48 10,08	255,0	3,30
(iii) 75 % of torque defined in (ii)					
25,19	2439	1145	6,90 8,21	274,0	3,07
(iv) 50 % of torque defined in (ii)					
17,03	2475	1162	5,45 6,48	320,0	2,63
(v) 25 % of torque defined in (ii)					
8,69	2524	1185	3,98 4,73	458,0	1,84
(vi) unloaded					
0	2586	1214	2,62 3,12	-	-

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
PART LOADS AT STANDARD POWER TAKE-OFF SPEED					
(i) The torque corresponding to maximum power available					
39,40	2130	1000	9,24 10,99	234,5	3,40
(ii) 85 % of torque obtained at maximum power					
34,53	2196	1031	8,30 9,87	240,5	3,89
(iii) 75 % of torque defined in (ii)					
26,30	2230	1047	6,77 8,05	257,5	3,27
(iv) 50 % of torque defined in (ii)					
17,84	2270	1066	5,20 6,18	291,0	2,89
(v) 25 % of torque defined in (ii)					
9,16	2330	1094	3,77 4,48	412,5	2,04
(vi) unloaded					
0	2405	1129	2,32 2,76	-	-

No load maximum engine speed: 2586 rev/min
Equivalent crankshaft torque
at maximum power: 154,7 Nm and rated engine speed
Maximum equivalent crankshaft torque: 189,3 Nm at 1400 - 1600 rev/min of engine

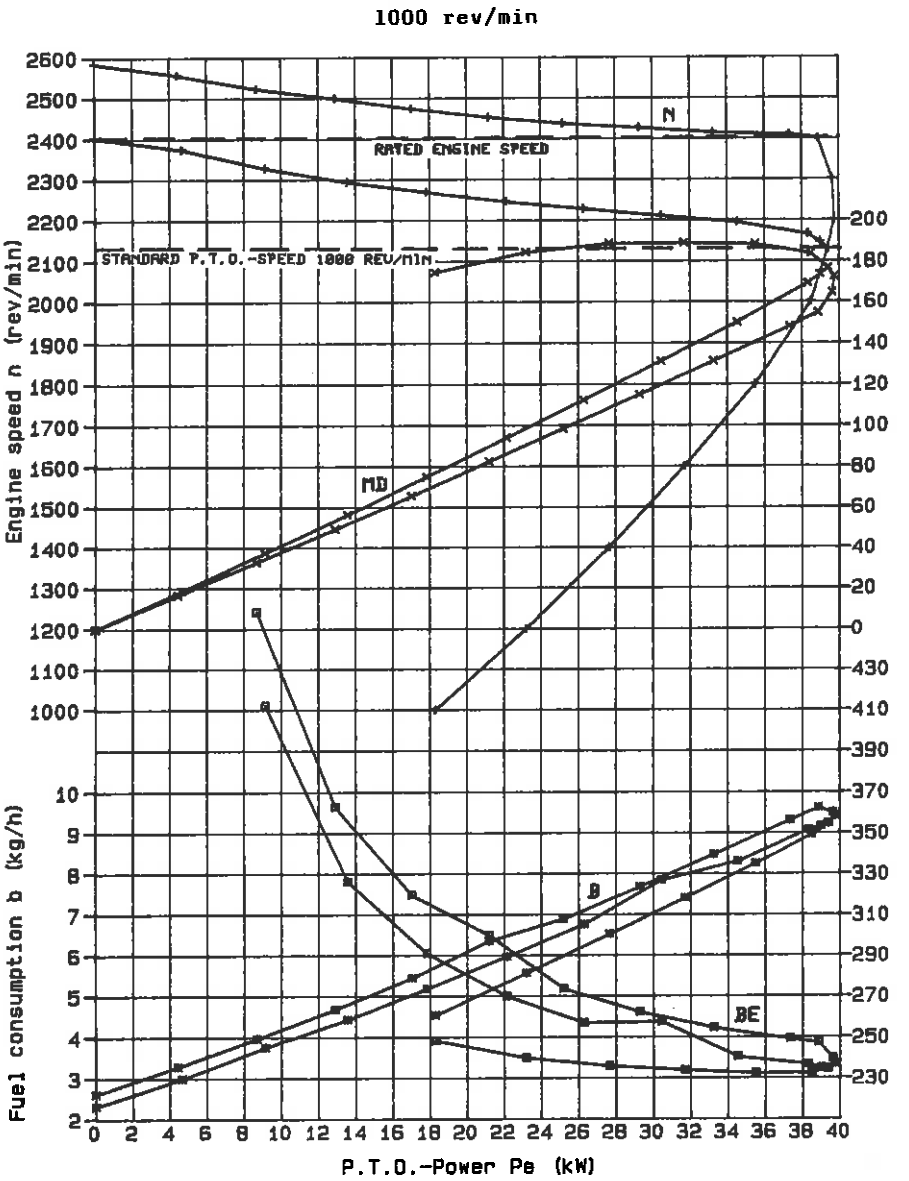
Mean atmospheric conditions	temperature:	16°C
	pressure:	989 mbar
	rel. humidity:	75 %
Maximum temperatures	coolant:	97°C
	engine oil:	121°C
	fuel:	18°C
	engine air intake:	27°C

BUNDESANSTALT FÖR LANDTECHNIK Wieselburg/Erlauf, Austria Prot.Nr.: 097/87	P.T.O.-test	STEYR-DIESELTRACTOR TYP 337.55 (8065A) MOT.TYP STEYR WD311.85



engine ser.nr. : 900	atm. pressure: 989 MBAR	fuel temp. : 18 C	signature
tractor ser.nr.: 337.55-24141	air temper. : 16 C	d.of tests : 1987-10-21	
fuel : 0.841/15 C	coolant temp.: 97 C	test no. : 780-382-87	
engine oil : RIMULA X 10W	oil temp. : 121 C	curves no. : 3	LUBER

BUNDESANSTALT FÜR LANDTECHNIK Wieselburg/Erlauf, Austria Prot.Nr.: 097/87	P.T.O.-test	STEYR-DIESELTRACTOR TYP 337.55 (8065A) MOT.TYP STEYR WD311.85



engine ser.nr. : 900	atm. pressure: 989 MBAR	fuel temp. : 18 C	signature
tractor ser.nr.: 337.55-24141	air temper. : 16 C	d.of tests : 1987-10-21	
fuel : 0.841/15 C	coolant temp.: 97 C	test no. : 760-362-87	
engine oil : RIMULA X 10W	oil temp. : 121 C	curves no. : 4	LUGER

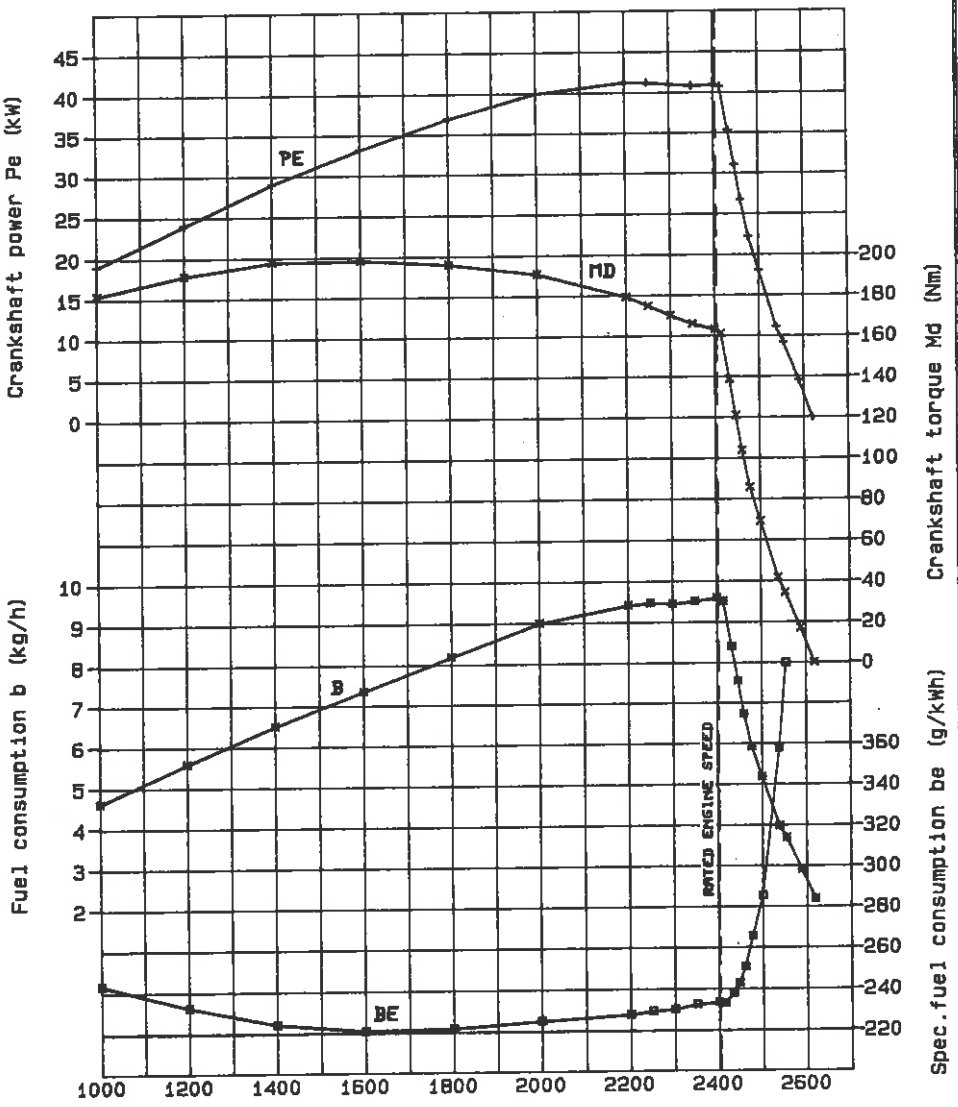
Engine performance

Date and location of test: 14.10.1987, Wieselburg, Austria
Type of dynamometer: SCHENCK eddy current brake W 150

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				
41,04	2400	9,60 11,42	234,0	3,65
41,36	2200	9,43 11,21	228,0	3,69
Power at rated engine speed				
41,04	2400	9,60 11,42	234,0	3,65
Standard power take-off speed				
38,30	2045	9,10 10,82	237,5	3,54
39,40	2130	9,24 10,99	234,5	3,61
Part loads				
(i) the torque corresponding to maximum power at rated engine speed				
41,04	2400	9,60 11,42	234,0	3,65
(ii) 85 % of torque obtained in (i)				
35,37	2434	8,42 10,01	238,0	3,53
(iii) 75 % of torque defined in (ii)				
26,81	2460	6,73 8,00	251,0	3,35
(iv) 50 % of torque defined in (ii)				
18,15	2500	5,18 6,16	285,5	2,95
(v) 25 % of torque defined in (ii)				
9,27	2555	3,71 4,41	400,0	2,10
(vi) unloaded				
0	2620	2,20 2,62	-	-

Optimum fuel consumption: 221,5 g/kWh at 33,28 kW and 1600 rev/min
No load maximum engine speed: 2620 rev/min
Torque at maximum power: 163,3 Nm and rated engine speed
Maximum torque: 198,7 Nm at 1400 - 1600 rev/min of engine
Mean atmospheric conditions: temperature: 18°C
pressure: 988 mbar
relative humidity: 55 %
Maximum temperatures: coolant: 92°C
engine oil: 113°C
fuel: 19°C
engine air intake: 23°C

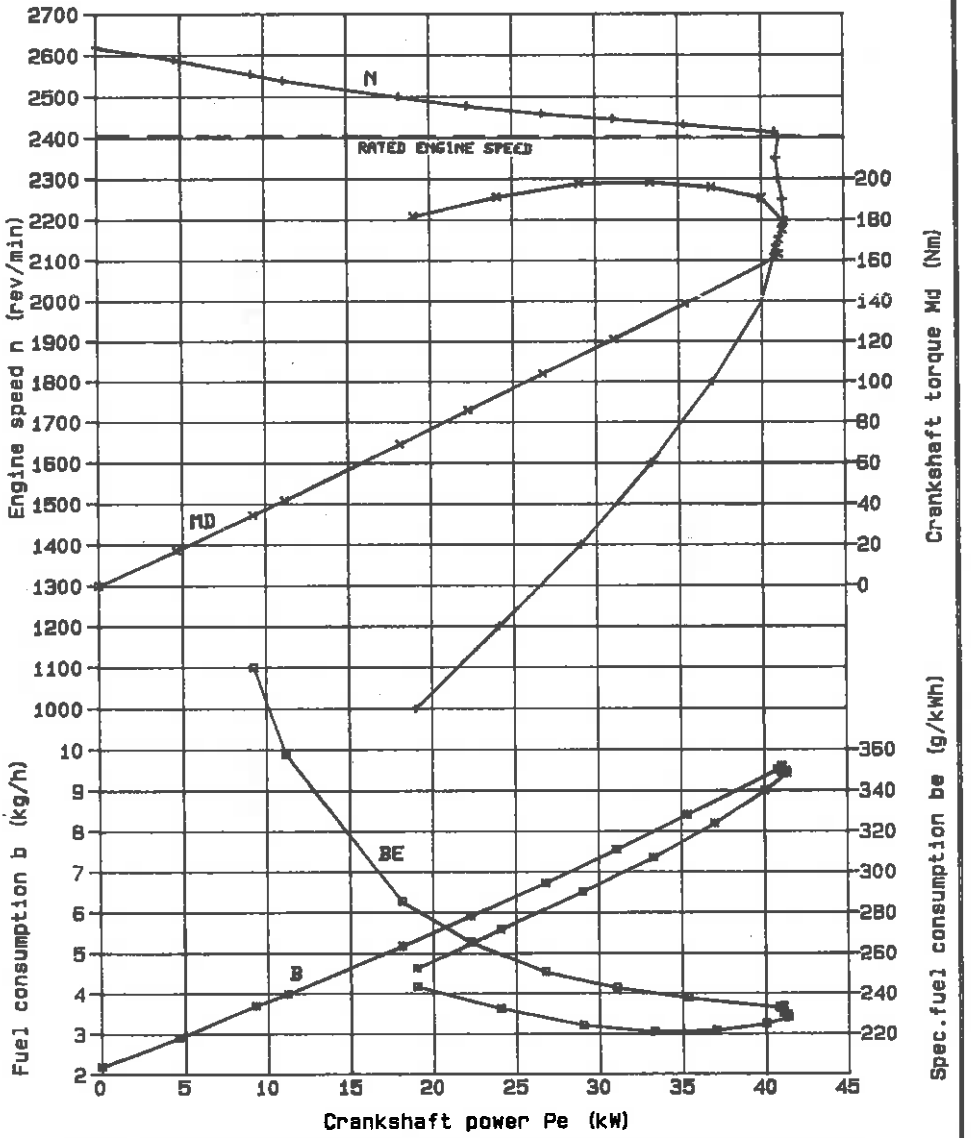
BUNDESANSTALT FÜR LANDTECHNIK Wieselburg/Erlauf, Austria Prot.Nr.: 097/87	Engine-test	STEYR-DIESELTRACTOR TYP 337.55 (8065A) MOT.TYP STEYR WD311.85



engine ser.nr. : 900	atm. pressure: 988 MBAR	fuel temp. : 19 C		signature
tractor ser.nr.: 337.55-24141	air temper. : 18 C	d.of tests : 1987-10-14		
fuel : 0.841/15 C	coolant temp.: 92 C	test no. : 150-154-87		
engine oil : RIMULA X 10W	oil temp. : 113 C	curves no. : 5		LUGER

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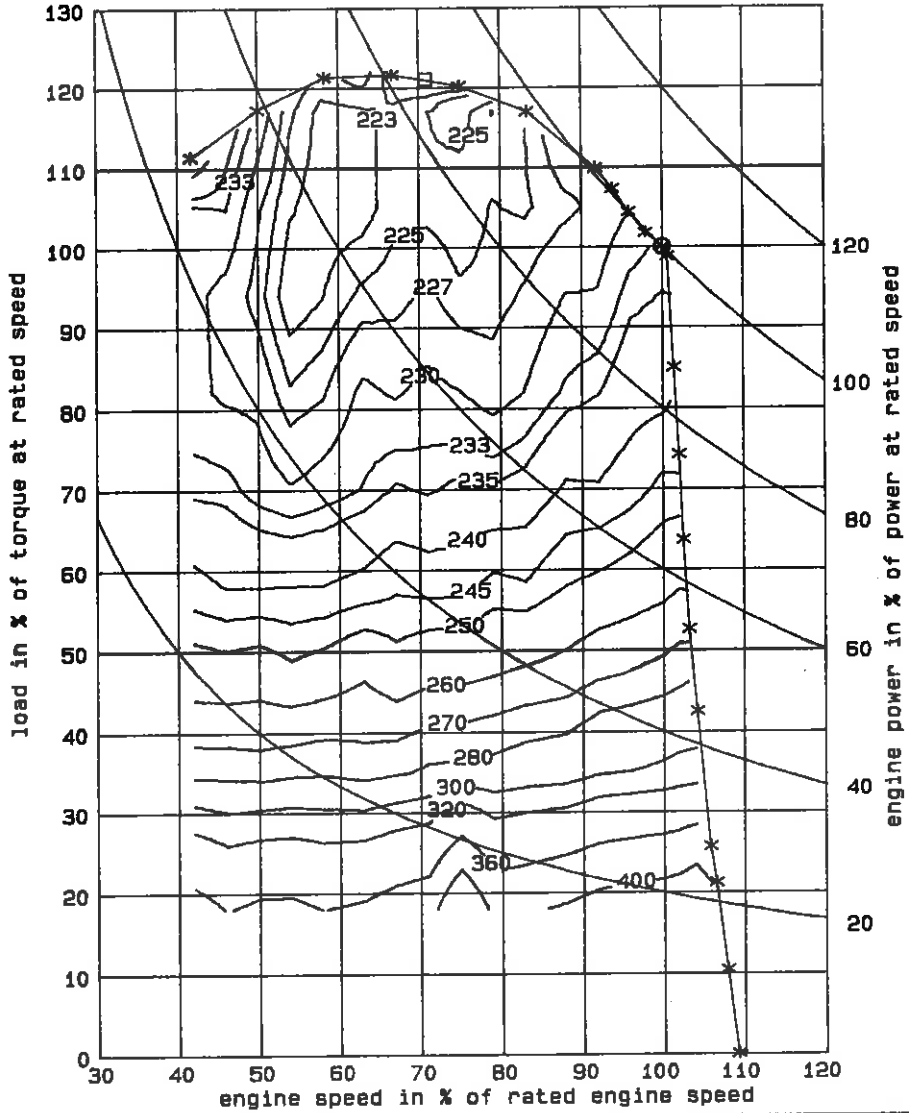
BUNDESANSTALT FÜR LANDTECHNIK Wieselburg/Erlauf, Austria Prot.Nr.: 097/87	Engine-test	STEYR-DIESELTRACTOR TYP 337.55 (8065A) MOT.TYP STEYR WD311.85



engine ser.nr. : 900	stm. pressure: 988 MBAR	fuel temp. : 19 C	signature	
tractor ser.nr.: 337.55-24141	air temper. : 18 C	d.of tests : 1987-10-14		
fuel : 0.841/15 C	coolant temp.: 92 C	test no. : 150-154-87		
engine oil : RIMULA X 10W	oil temp. : 113 C	curves no. : 6	LUGER	

BUNDESANSTALT FÜR LANDTECHNIK Wieselburg/Erlauf, Austria Prot.Nr.: 097/87	ENGINE PERFORMANCE CHARACTERISTIC	STEYR-DIESELTRACTOR TYP 337.55 (8065A) MOT.TYP STEYR WD311.85

□ ....min. fuel 220.87 g/kWh at n = 1700. rev/min
Md = 197.67 Nm, P = 35.2 kW
⊛ ....N = 2400. rev/min, Md = 163.3 Nm, P = 41.0 kWh



engine ser.nr. : 900	atm. pressure: 988 MBAR	fuel temp. : 19 C	signature
tractor ser.nr.: 337.55-24141	air temper. : 18 C	d.of teste : 1987-10-14	
fuel : 0.841/15 C	coolent temp.: 92 C	test no. : 150-154-87	
engine oil : RIMULA X 10W	oil temp. : 113 C	curves no. : 7	LUBER

EDV-MKG8MKL-MKL11-MKU186

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, Austria
Submitted for test by:	Manufacturer
Selected for test by:	Manufacturer in agreement with BLT-Wieselburg
Make/type of protective structure:	STEYR, frame STEYR 100.03
Make/type of tractor to which it is fitted:	STEYR 337.55 Trade name: STEYR 8065 a
Location and date of test:	Wieselburg, 4.9.1986
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.

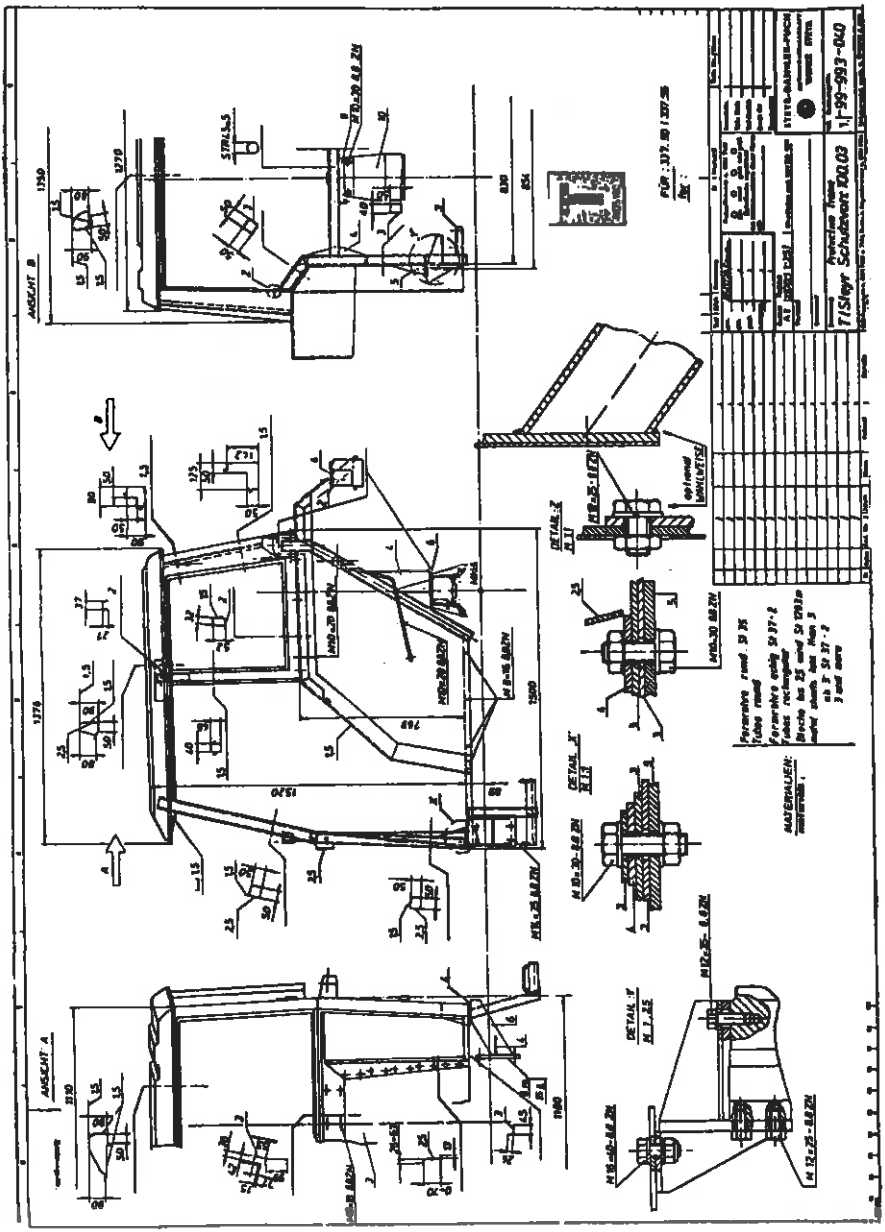
Approval number:	OECD: CSD 01059/1
Date of approval:	24.2.1987
Location and country of test of the protective structure:	Bundesanstalt für Landtechnik, Wieselburg, Austria
Mass used for calculating load energies and crushing forces:	2700 kg

SPECIFICATION OF TEST TRACTOR

Serial number	337.55 - 2414*0536
First serial number:	337.55 - 2414*0536
Mass of unballasted tractor, with protective structure fitted,without driver	
- front:	1085 kg
- rear:	1590 kg
- total:	2675 kg
Tyre sizes	
- front:	11.2/10 - 24 AS
- rear:	13.6/12 - 36 AS
Make/model/type of seat:	Klepp Elastomat 1050 S
Position of exhaust pipe:	Mouth upwards, 2355 mm above ground
Brief description of transmission including number of gears:	2 forward and 1 reverse group (FORWARD FAST, FORWARD NORMAL, REVERSE) Combined with 4 speed change gear and reduction gear (ROAD - FIELD) Total: 16 forward and 8 reverse speeds

	Reference:	Checked:
Engine setting:	2400 rev/min	2400 rev/min
Maximum p.t.o. power:	39,39 kW	39,39 kW
Corresponding engine speed:	2200 rev/min	2200 rev/min
No load engine speed:	2590 rev/min	2590 rev/min

SPECIFICATION OF PROTECTIVE STRUCTURE



Brief description:

The main frame is made of profile steel tubes and pressed sheet metal. The separate parts are welded and screwed. The fastening of the frame on the tractor is made with screws on the mudguards resp. on the rear axle and in the front left and right on the clutch housing. The sheet metal roof is integrated in the frame. The manholes are left and right on the tractor.

Details of materials used for sound proofing the protective structures

Interior padding:	
Roof:	30 mm foam plastic
Mudguards:	20 mm foam plastic, coated with imitation leather
Floor:	rubber floor 5 mm with 15 mm damping material
Gearbox:	5 mm hard plastic with 20 mm damping material
Instrument panel and steering column:	
Glass:	Front glass: SECURITY glass (6 mm) PROTEXIT 43 R - 001120 Side glass: 5 mm Rear: transparent plastic foil

TEST RESULTS

Frame, completed to full closed cab, all openings closed

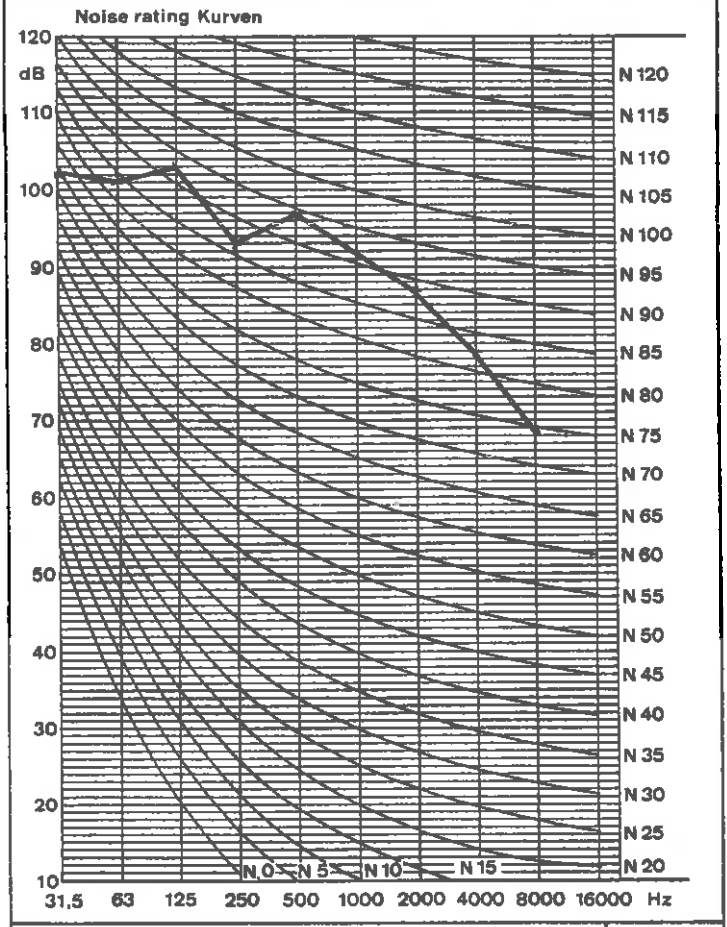
Gear	Drawbar pull at which the tractor develops the maximum sound level kN	Measured travelling speed km/h	Sound level dB(A)
Unloaded test in the gear giving the speed nearest to 7,5 km/h			
LVN 4	1,79	7,81	94,0
Unloaded test in the gear giving the maximum speed			
SVS 4	-	28,80	96,5
Tests with the drawbar 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)			
LVN 1	1,91	1,69	97,0
LVS 1	1,76	1,98	97,0
LVN 3	19,01	3,06	96,0
LVN 2	1,99	3,23	96,5
LVS 2	2,22	3,79	96,0
LVS 3	22,46	5,00	96,0
SVN 1	15,80	5,24	94,5
SVS 1	20,00	5,83	96,0
LVN 4	11,48	7,31	96,0
LVS 4	8,51	8,68	95,5
SVN 2	6,09	10,18	97,0
SVS 2	7,02	11,82	95,5
SVN 3	3,17	15,26	95,0
SVS 3	4,03	17,70	96,0

Gear	Drawbar pull at which the tractor develops the maximum sound level kN	Measured travelling speed km/h	Sound level dB(A)
SVN 4	2,35	24,97	96,5
SVS 4	-	28,80	96,5

REPAIRS: -

REMARKS: -

Bundesanstalt für Landtechnik Wieselburg/Austria	Octave analysis of noise at the drivers ear level	STEYR 8065 a (STEYR 337.55)



Gear: LVN 4
Travelling speed: 7,3 km/h