O.E.C.D. Report No.: 1337

Bundesanstalt für Landtechnik

A-3250 Wieselburg. Austria

RASANT ALL-TRAK 9055 (4 WD)

This model is built to be used without additional ballast.
(Drawbar test was conducted in unballasted conditions.)



Date of approval: 6.12.1991

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:	Johann Nußmüller KG. Aichegg 20, A-8541 Schwanberg
Location of tractor assembly:	Aichegg 20, A-8541 Schwanberg
Submitted for test by:	Manufacturer
Selected for test by:	Manufacturer by agreement with BLT-Wieselburg
Place of running-in:	Aichegg 20, A-8541 Schwanberg
Duration of running-in:	50 hours
Location of test:	Wieselburg, Austria

SPECIFICATIONS OF TRACTOR

TRACTOR:

Make:	Johann Nußmüller KG.
Trade name:	RASANT ALL-TRAK 9055
Type:	ALL-TRAK 9055
Number of driving wheels:	4
Serial no.:	1400 121 90
1st serial no.:	1400 001 90

ENGINE:

Make:	KUBOTA
Model:	V2203 IDI
Type:	4 stroke diesel engine direct injection with water cooling system
Serial no.:	V2203 2761

Cylinder:

Number/disposition:	4, vertical in line
Bore/stroke:	87/92,4 mm
Capacity:	2197 cm^3
Compression ratio:	22 : 1
Arrangement of valves:	Overhead valves
Cylinder liners:	Dry liners

Supercharging: None, naturally aspirated

Fuel system:

Fuel feed system:	Fuel pump
Make, model and type of fuel filter:	Paper element with transparent bowl KUBOTA 19271-42011
Capacity of fuel tank:	35 l
Make, model and type of injection pump:	ND-PFR 4 M 55/2 ND 561 NIPPON DENSO LTD
Manufacturer's production setting of injection pump, flow rate and timing:	31,3 mm^3 /stroke at pump speed of 1400 rev/min and full load 17° - 19° before TDC
Make, model and type of injectors:	NIPPON DENSO LTD NP-DN 0 PD 80
Injection pressure:	13,73 $^{+0,98}_{-0}$ MPa

Governor:

Make:	KUBOTA LTD
Model:	233251-74012
Type:	Mechanical acting
Governed range of engine speed:	From 800 rev/min to 2800 rev/min rated speed
Rated engine speed:	2800 rev/min

Air cleaner:

Location of air intake:	Inside the bonnet, above the radiator
Pre-cleaner:	Incorporated in main-cleaner
Make:	KUBOTA LTD
Model:	19675-110-1
Main-cleaner:	
Make:	KUBOTA LTD
Model:	KUBOTA 19675-1101-1
Type:	Dry cyclon type
Location:	Inside the bonnet, above the radiator
Service intervals:	Cleaning interval: every day Changing interval: 1000 hours or 1 year

Lubrication system:

Type of feed pump:	MIKUNI trochoid pump
Type of filter:	KUBOTA P/N 17321-32430

Cooling system:

Type of coolant:	Water cooling; water or water with freeze solution
Specification of fan:	1 driving belt
Number of fan blades:	5
Fan diameter:	390 mm
Type of temperature control:	Thermostat control with electrical cooling thermometer

Starting system:

Make:	BOSCH
Model:	15461-6301-0
Type:	Electric starting with cell-starter
Starter motor power rating:	1,4 kW 12 V
Cold starting aid:	-
Safety device:	Operates only when the clutchlever is pressed down

Electrical system:

Voltage:	12 V
Generator:	Make: NIPPON DENSO Model: 021000 8620 Type: three phase type Power: 12 V, 45 A, 540 W
Battery:	1 with 12 V, lead acid type 100 Ah at 20 hours rating

Exhaust system:

Make:	KUBOTA
Model:	15126-12113
Type:	Silencer
Location:	External vertical silencer, 110 mm left of the engine, height above ground 280 mm

TRANSMISSION TO WHEELS:

Clutch:

Make:	PIVI
Model:	215 D
Type:	Dry double clutch with 2 plates
Number of plates:	2
Diameter of plate:	215 mm
Method of operating:	Mechanically acting by pedal 1st step p.t.o. clutch operated with hand lever (mechanical, 2nd step)

Gear box:

Make:	RASANT-VALPADANA
Model:	8211
Type:	Mechanically acting gear box
Model:	3 forward groups, combined with 4 speed change gear and one reverse for each group
Arrangement:	1 lever for group gear 1 lever for the 4 speed gear and reverse gear Total: 12 forward and 3 reverse gears

Rear axle and final drives:

Make:	RASANT-VALPADANA
Model:	9055
Type:	Pinion and bevel gear, lockable bevel gear differential, acting by porter gears on rear wheels
Differential lock:	Make: RASANT-VALPADANA Model: 9055 Type: Mechanically acting, engaging or disengaging with hand lever

Front axle and final drives:

Make:	RASANT-VALPADANA
Model:	9055
Type:	Steering and driving axle, centra type Driving shaft, pinio and bevel gear, bevel gear differential, universal joints
Differential lock:	Make: RASANT-VALPADANA Model: 9055 Type: Mechanically acting, engaging or disengaging with hand lever

Front wheel drive: Mechanically engaged, hand lever operated

Total ratios and travelling speeds:

Gear no.	Group	Number of engine revolutions for one revolution of driving wheels	Nominal travelling speed at rated engine speed of 2800 rev/min *) km/h
I 1		427,11	1,04
2	SLOW	252,38	1,76
3		166,99	2,66
R		370,16	1,20
II 1		147,03	3,02
2	NORMAL	86,93	5,11
3		57,46	7,73
R		126,91	3,50
III 1		53,58	8,29
2	FAST	31,62	14,05
3		20,88	21,27
R		46,22	9,61

*) Calculated with rear tyre dynamic radius index of 421 mm (ISO 4251/1-1984)
test tyre equipment: rear 7.50 - 18 AS
front 7.50 - 18 AS

Number of revolutions of front wheels for one revolution of rear wheels: 1,433

POWER TAKE-OFF:

Main power take-off:

Type: Independent, at rear of tractor, in median plane of tractor

Method of engagement: Engaged or disengaged by hand lever, driven by dual clutch independent of travel clutch

Number of shafts: 2

Method of changing power take-off shaft speeds: Speed selection by hand lever, no changing of shaft ends

Power take-off proportional to engine speed:

540 and 750 rev/min

Location:	At rear of tractor
Diameter of power take-off shaft end:	35 mm
Number of splines:	6, in conformity with ISO R 500 - 1979, type 1
Height above ground:	360 mm
Distance from the median plane of the tractor:	0 mm
Distance behind rear wheel axis:	100 mm
P.t.o. speed at rated engine speed:	616 rev/min resp. 875 rev/min
Engine speed at standard power take-off speeds:	2454 rev/min resp. 2400 rev/min
Ratio of rotation speeds (engine speed/ p.t.o. speed):	4,545 resp. 3,20
Power restriction and max. torque:	32,8 kW
Direction of rotation (viewed from behind tractor):	Clockwise

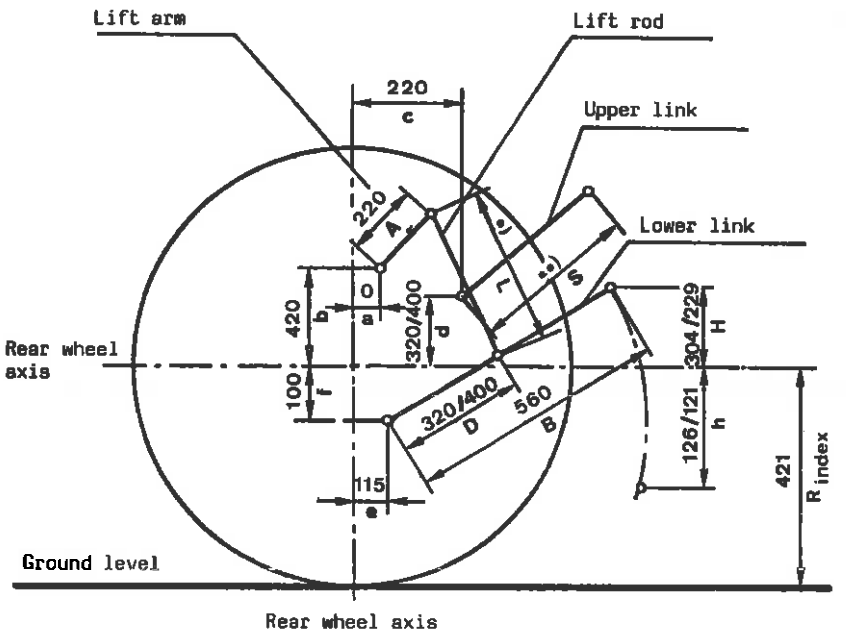
Power take-off proportional to ground speed:

Speed of shaft:	540 rev/min
Travelling distance for one revolution of p.t.o. shaft:	0,121 m with 421 mm tyre dynamic radius index
Number of p.t.o. shaft revolutions for one revolution of rear wheels:	19,66
Distance of rotation with forward gear engaged (viewed from behind tractor):	Clockwise

POWER LIFT:

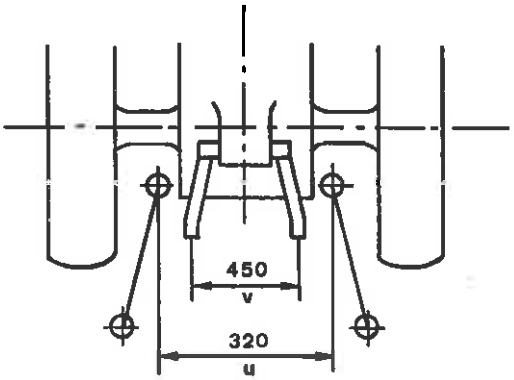
In the rear:	
Make:	RASANT
Model:	9055
Type:	Hydraulic top link sensing with draft
Type of hydraulic system:	Common oil supply from gear box with separate control unit
Type and number of cylinder:	One internal single acting hydraulic cylinder
Type of linkage lock for transport:	Hydraulically by throttle valve
Relief valve pressure setting:	17,5 MPa - 18,0 MPa (175 - 180 bar)
Opening pressure of cylinder safety valve:	17,5 MPa (175 bar)
Lift pump type:	Gear pump
Transmission between pump and engine:	Driven by engine shaft
Type and number of filter:	F.B.O FLS 50 M
Site of oil reservoir:	Gear box
Type, number and location of tapping points:	3 tapping points in accordance to ISO DIS 5675 - 1979, 140 mm behind rear axle, 640 - 760 mm above rear axle, 310 mm right of median plane
Maximum volume of oil available to external cylinders:	16 l
Three-point-linkage:	Category I in conformity with ISO 730/1 - 1977
Category adapter:	None

Figures of power lift:



*) Left lift rod adjustable from 495 mm to 660 mm by a thread, right lift rod adjustbale from 495 mm to 660 mm by a thread

**) Upper link length adjustable from 420 mm to 630 mm



Dimensions of linkage geometry:

			Dimension of range mm	Settings used in test mm
Length of lift arms:		(A)	220	220
Length of lower links:		(B)	560	560
Distance of lift arm pivot points from rear wheel axis:	horizontally	(a)	0	0
	vertically	(b)	420	420
Horizontal distance between the 2 lower link points:		(u)	320	320
Horizontal distance between the 2 lift arm end points:		(v)	450	450
Length of upper link:		(S)	420 - 630	440
Distance of upper link pivot point from fear wheel axis:	horizontally	(c)	220	220
	vertically	(d)	320/400	320/400
Distance of lower link pivot point from rear wheel axis:	horizontally	(e)	115	115
	vertically	(f)	100	100

Height of lower link hitch points relative to the rear wheel axis (421 mm above ground)*):

	Min. lift rod length	During test	Max. lift rod length
Length of lift arms (A) mm	220		
Linkage distance of lift rod (D) mm	320 / 400 **)		
Length of lift rods (L) mm	500	500/540**)	600
Lowest position (h) mm	226/141**)	226/221**)	480/370**)
Highest position (H) mm	204/184**)	204/129**)	0/0

*) With dynamic radius index 421 mm (ISO 4251/1-1084)
**) min.mech/max.mech advantage

TRAILER HITCH:

Type:	Fork type
Hole diameter:	30 mm
Height above ground:	225/290/325/365 mm
Distance of hitch point from rear wheel axis, horizontally:	360 mm
Distance of hitch point from power take-off shaft end, vertically:	below 135/70/35 mm; above 5 mm
horizontally:	175 mm
Maximum vertical permissible load:	15 kN

HOLED DRAWBAR:

Length:	800 mm
Number of holes:	5 holes with one middle hole
Distance between holes:	130 mm
Hole diameter:	22 mm/28 mm of middle hole
Thickness/width of the drawbar:	25/60 mm
Height above ground min.:	150 mm
max.:	625 mm
Horizontal distance to power take-off shaft end (rear):	465 mm

STEERING:

Make:	DANFOSS
Model:	OSPC 100
Type:	Hydrostatic steering
Method of operation:	Steering wheel acting on front axle
Pump:	Gear pump
Rams:	One double acting, fitted on front axle
Working pressure:	17,5 MPa (175 bar)

BRAKES:

Service brake:

Make:	RASANT-VAPADANA
Model:	9055
Type:	Dry drum brakes on the rear wheel
Front disc diameter:	-
Rear disc diameter:	205 mm diameter, 35 mm width
Method of operation:	Mechanically by pedal, independent on combined pedal, mechanically transmission
Trailer-braking take-off:	None

Parking brake:

Type:	Mechanically acting on the same drum brakes as service brake (cable connection to service brake)
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:	1330 mm

Track width adjustment:

	Minimum mm	Maximum mm	Adjustment method
Front	1130	1150	wheels turned around
Rear	1130	1150	

ROLL-BAR:

Make:	RASANT
Model:	27261N
Type:	Metal tube
Manufacturer's name and address:	Johann Nußmüller KG., Aichegg 20, A-8541 Schwanberg

DRIVER'S SEAT:

Make:	BOSTROM
Model:	Mini Baltic XL
Type:	Unholstered seat with back rest
Type of suspension:	Springs tension claimed
Type of damping:	Shock absorber
Range of adjustment, longitudinal:	150 mm
vertical:	60 mm

MISCELLANEOUS:

Additional seat:	None
Location:	-
Number of places:	-

LIGHTING:

	*) Height above ground of centre mm	Size mm	Distance from outside edge of lights to median plane of tractor mm
Head lights	550	145 x 80	210
Side lights	1035	90 x 40	465
Rear lights	945	95 x 65	510
Brake lights			
Direction indicators front	1070	60 x 40	465
Direction indicators rear	945	95 x 65	575
Reflectors	860	dia 80	550

*) Measured with tyre dyn. radius index at rear 421 mm and 421 mm at front (ISO 4251/1-1984)

TEST CONDITIONS

Overall dimensions:

	Length	Width *)	Height at top of roll-bar
	mm	mm	mm
With ballast	-	-	-
Without ballast	3180	1425	1960

*) Measured on the outside edges of the rear wheels

Ground clearance:
(unballasted tractor)

Clearance limiting part: engine 260 mm
front axle 250 mm

Tractor mass: With tanks full

		Without driver	With driver
		kg	kg
Unballasted	Front	1047	1064
	Rear	647	705
	Total	1694	1769
Ballasted	Front	-	-
	Rear	-	-
	Total	-	-

Ballast: No ballast equipment for this version

	Number of weights	Mass total kg	Water kg
Front	-	-	-
Rear	-	-	-
Additional	-	-	-

Tyres and track width specifications:

Tyres:

	Front	Rear
Dimensions	7,50 - 18 AS rim: 5,5 F x 18	7,50 - 18 AS rim: 5,5 F x 18
Ply rating	6	6
Type	diagonal carcass	diagonal carcass
Max. load (tyre manufacturer's)	1420 kg	1420 kg
Max. load (tractor manufacturer's)	1420 kg	1420 kg
Inflation pressure (tyre manufacturer's)	2,1 bar	2,1 bar
Dynamic radius index	421 mm	421 mm
Chosen track width	1135 mm	1135 mm

Oil and lubrication:

Capacity and change interval:

	Capacity (dm^3)	Oil change (h)	Filter change (h)
Engine	7,5	100	
Gear box	16	500	
Front axle	16	1000	of each oil changing
Rear axle	2 x 1	500	
Final drive front	Common with front axle		
Final drive rear	Common with rear axle		
Hydraulic system	Common with transmission		
Steering	5	500	

Specifications:

	Recommended:	Used during test:
Engine oil:		
Type:	SHELL RIMULA 15 W 40	As recommended
Viscosity:	40°C 105 cst; 100°C 14,5 cst	
Classification:	MIL-L-2104 D	
Transmission oils:		
Type:	SHELL AGROMA OIL 15 W 30	As recommended
Viscosity:	40°C 70 cst; 100°C 11 cst	
Classification:	MIL-L-46152 (MIL-L-2104 B)	
Hydraulic fluid:	Common oil circuits with transmission	
Steering oil:		
Type:	ATF DEXRON 2 D 21666	As recommended
Viscosity:	40°C 38 cst; 100°C 7,1 cst	
Classification:	-	
Grease:		
Type:	SHELL ALVANIA EP Fett 2	As recommended
Viscosity:	50°C 110 cst	
Classification:	SEB 181 253 für K-P2k	
Number of lubrication points:	23	
Fuel:		
Type:	In conformity with national standard accorting to DIN 51601	
Density at 15°C:	0,842 g/cm^3	

TEST RESULTS

COMPULSORY TEST:

Main power take-off performance

Date and location of tests: 30.4.1991, 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

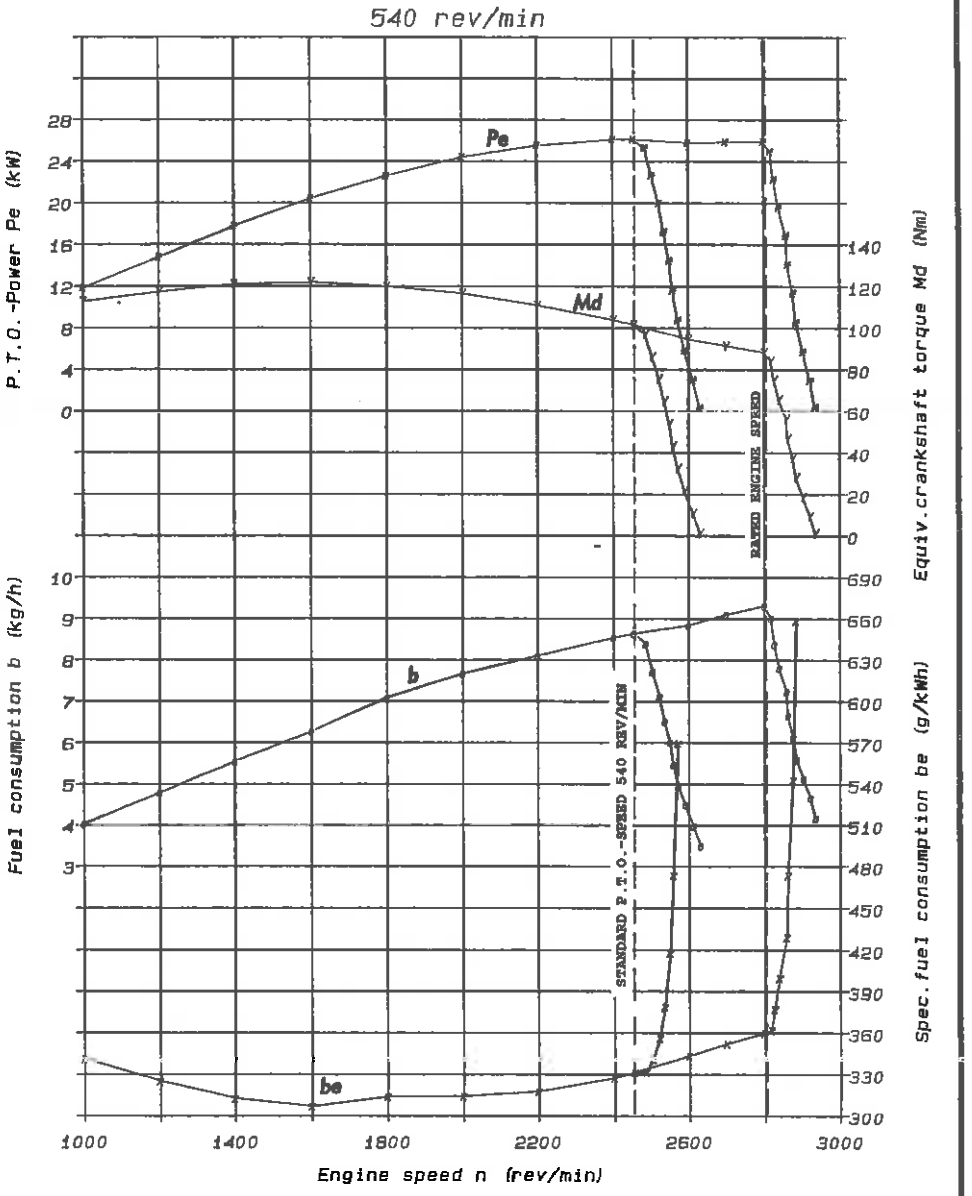
Power	Speed		Fuel consumption		Specific energy
	engine	p.t.o.	hourly	apecific	
kW	rev/min	rev/min	kg/h l/h	g/kWh	kWh/l
MAXIMUM POWER					
Maximum power - 2 hours test					
25,87	2800	616	9,31 11,06	360,0	2,34
Power at rated engine speed					
25,87	2800	616	9,31 11,06	360,0	2,34
Standard power take-off speed					
26,08	2454	540	8,64 10,26	331,5	2,54
PART LOADS					
(i) the torque corresponding to maximum power at rated engine speed					
25,87	2800	616	9,31 11,06	360,0	2,34
(ii) 85 % of torque obtained in (i)					
22,2	2827	622	8,37 9,94	377,0	2,23
(iii) 75 % of torque defined in (ii)					
16,84	2859	629	7,22 8,58	429,0	1,91
(iv) 50 % of torque defined in (ii)					
11,30	2877	633	6,13 7,28	542,5	1,55
(v) 25 % of torque defined in (ii)					
5,7	2904	639	5,13 6,09	901,0	0,94
(vi) unloaded					
-	2936	646	4,17 4,95	-	-

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					
26,08	2454	540	8,64 10,26	331,5	2,54
(ii) 85 % of torque obtained at maximum power					
22,62	2504	551	7,70 9,15	340,5	2,47
(iii) 75 % of torque defined in (ii)					
17,18	2536	558	6,50 7,72	378,5	2,23
(iv) 50 % of torque defined in (ii)					
11,55	2559	563	5,47 6,50	473,5	1,78
(v) 25 % of torque defined in (ii)					
5,85	2590	570	4,50 5,34	769,0	1,10
(vi) unloaded					
-	2631	579	3,48 4,13	-	-

No load maximum engine speed: 2936 rev/min
Equivalent crankshaft torque
at maximum power: 88,2 Nm and rated engine speed
Maximum equivalent crankshaft torque: 121,8 Nm at 1600 rev/min of engine

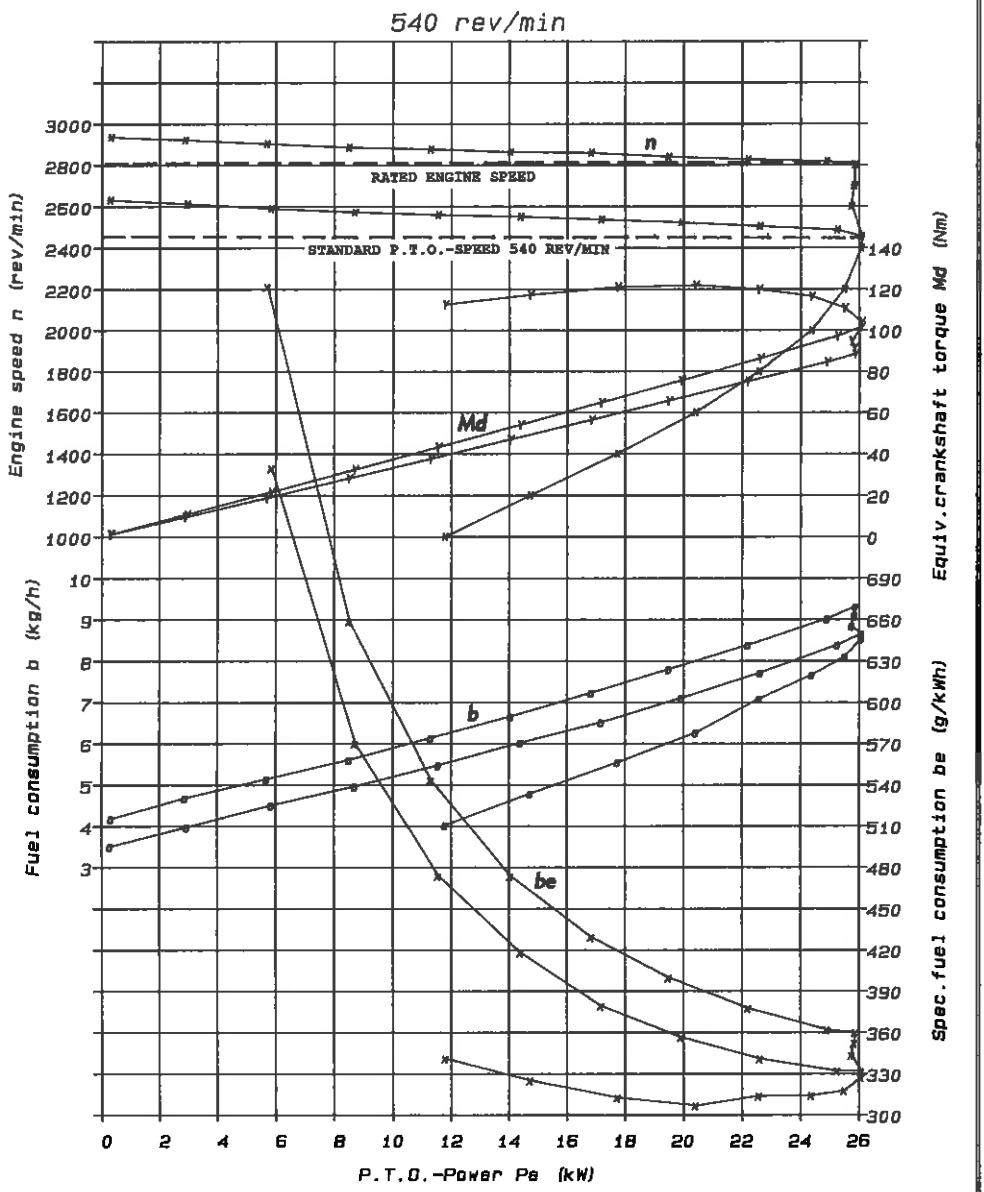
Mean atmospheric conditions	temperature:	16°C
	pressure:	993 mbar
	rel. humidity:	65 %
Maximum temperatures.	coolant:	88°C
	engine oil:	104°C
	fuel:	26°C
	engine air intake:	43°C

Bundesanstalt fOr Landtechnik eselburg/Erlauf, Austria Prot.Nr.:	P.T.O.-test	RASANT ALL-TRAK Typ 9055 Mot.Typ KUBOTA V2203



gine ser.nr. V2203 2761	atm. pressure. 993 MBAR	fuel temp. 26 C	signature
actor ser.nr. 1400 121 90	air temper. 16 C	d.of tests . 1991-04-30	
el . 0.842/15 C	coolant temp.. 88 C	test no. 780-571-91	
gine oil : 15 W40	oil temp. . 104 C	curves no. 1	LUGER

Bundesanstalt für Landtechnik Wieselburg/Erlauf, Austria Prot.Nr.:	P.T.O.-test	RASANT ALL-TRAK Typ 9055 Mot.Typ KUBOTA V2203



engine ser.nr. : V2203 2751	atm. pressure: 993 MBAR	fuel temp. : 26 C	signature
tractor ser.nr.: 1400 121 90	air temper. : 16 C	d.of tests : 1991-04-30	
fuel : 0.842/15 C	coolant temp.: 88 C	test no. : 780-571-91	
engine oil : 15 W40	oil temp. : 104 C	curves no. : 2	LUGER

HYDRAULIC POWER AND LIFTING FORCE:

Date of tests: 31.7.1991

Hydraulic power test:

Sustained pressure with relief valve open: 14,0 MPa (140 bar)

Pump delivery rate at minimum pressure (at rated engine speed): 30,0 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	22,20	12,5 (125 bar)	4,6
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	28,10	11,5 (115 bar)	5,4

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: -

Closing pressure of the unloading valve: -

Power lift test:

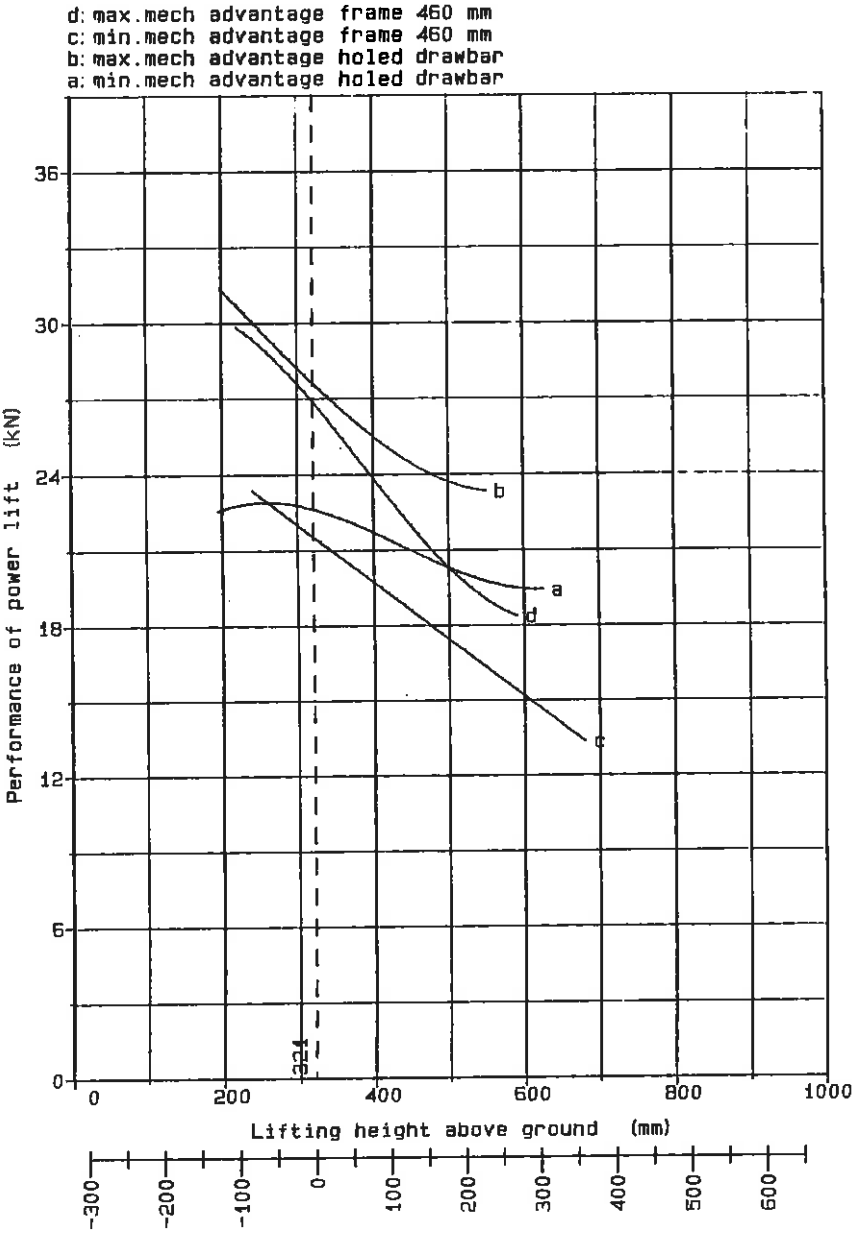
	at the hitch point	on the frame
Height of lower hitch points above ground in down position *)	195/200 mm	195/200 mm
Vertical movement *)	430/350 mm	430/350 mm
Maximum corrected force exerted through full range *)	19,5/23,2 kN	13,2/18,3 kN
Corresponding pressure of hydraulic fluid	12,5 MPa (125 bar)	12,5 MPa (125 bar)
Moment about rear wheel axis *)	13,16/15,66 kNm	16,96/23,52 kNm
Maximum tilt angle of mast from vertical	-	from +3° to 0° and to +12°

*) Min.mech/max.mech. advantage

Linkage settings for test: See table and figure in specifications

Lifting heights relative to the horizontal plane including the lower link pivot points															
	mm	-120	-95	-70	-35	0	50	100	150	200	230	280	305	340	375
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: 12,5 MPa (125 bar)															
at the hitch point kN	max.mech. advantage	31,0	30,3	29,6	28,7	27,7	26,6	25,4	24,5	23,6	23,2				
	min.mech. advantage	22,8	22,8	22,8	22,7	22,6	22,2	21,6	20,8	20,0	19,7	19,5	19,5		
at the frame kN (460 mm mast height)	max.mech. advantage		29,5	28,9	28,1	27,0	25,3	23,2	21,2	19,9	19,2	18,3			
	min.mech. advantage			23,4	22,4	21,5	20,2	19,0	17,8	16,6	16,0	15,0	14,5	13,8	13,2

Performance of power lift:



Height relative to the horizontal plane including the lower link pivot points (dyn. radius index 421 mm)

Drawbar performance:

Date of tests: 22.5.1991
23.5.1991
3.6.1991

Height of drawbar above ground: unballasted 235 mm, ballasted - mm

Tyre inflation pressure: front: unballasted 130 kPa, ballasted - kPa
rear: unballasted 130 kPa, ballasted - kPa

Type of track: Concrete

Tyre sizes: front 7,50 - 18 AS; rear 7,50 - 18 AS

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)													
I 1	3,26	13,59	0,86	2917	15,0	-	-	27	68	97	20	64	98,7
I 2	5,46	13,61	1,44	2896	15,0	-	-	26	68	97	18	64	98,7
I 3	8,18	13,58	2,16	2878	15,0	1138,0	0,89	26	70	98	19	64	98,7
II 1	9,26	13,61	2,45	2875	15,0	662,0	1,27	27	70	98	19	65	98,7
II 2	15,48	13,58	4,10	2838	15,0	503,0	1,67	25	73	100	20	66	98,7
II 3	19,91	11,23	6,37	2800	11,6	467,5	1,80	25	77	101	21	66	98,7
III 1	20,30	10,57	6,91	2800	10,7	458,5	1,84	27	75	102	21	66	98,7
III 2	20,18	5,90	12,31	2800	6,2	461,5	1,83	27	75	102	21	66	98,7
(iii) Five-hour-test at 75 % of pull at maximum power													
III 1	16,7	7,93	7,58	2833	7,9	484,0	1,74	27	78	108	20	65	99,8
(iv) Five-hour-test at pull corresponding to 15 % wheelslip in test (ii)													
II 2	15,48	13,60	4,10	2840	15,0	503,0	1,67	30	81	110	25	60	100,5

Oil consumption during 10 hours duration of tests (iii) and (iv): 55 g/h

TURNING AREA AND TURNING CIRCLE:

Wheel equipment: front: 7,50 - 18 AS; PR 6
rear: 7,50 - 18 AS, PR 6

Track of wheel: front: 1140 mm
rear: 1140 mm

Results	With brakes		Without brakes	
	right-hand	left-hand	right-hand	left-hand
	m	m	m	m
Radius of turning area	2,54	2,54	3,48	3,42
Radius of turning circle	2,40	2,40	3,34	3,28

LOCATION OF CENTRE OF GRAVITY:

	mm
Height above ground	510
Distance forward from the vertical plane containing the axis of the rear wheels	800
Distance from the median plane of the tractor, right-side	3,0

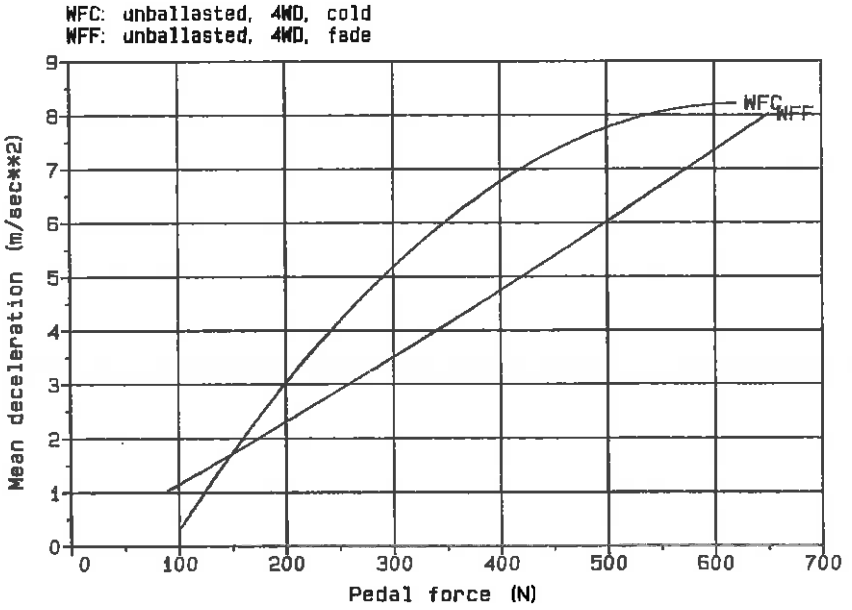
BRAKING:

Date of tests: 8.5.1991
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	-	-	-
Unballasted	1064	705	1769

Service brake:



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Speed before application of brakes: 24,40 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	
Braking device control force	up	down
	310 N	280 N

MEASUREMENT OF EXTERNAL NOISE LEVEL:

Date of tests:	3.6.1991
Type of sound level meter:	BRÜEL & KJAER 2209 and 2308
Type of track:	Concrete
Gear number:	III 3
Travelling speed before acceleration:	16,0 km/h
Sound level:	83,5 dB(A)

REPAIRS:

REMARKS: This tractor is built without ballast equipment

The director of testing station:

(Dipl.Ing.Dr. J. Schrottmaier)
Oberrat

Bundesanstalt für Landtechnik, Wieselburg a. d. Erlauf

Test and report carried out by:

(Ing. H. Schaufler)