O.E.C.D. REPORT N° 671

TEST BULLETIN
TRACTOR

ZETOR 10045

MANUFACTURED BY : ZETOR - BRNO - CZECHOSLOVAKIA



DATE OF TESTS : OCTOBER 1978 - JULY 1979
DATE OF APPROVAL : 17TH JUNE 1980

MINISTÈRE DE L'AGRICULTURE
STATION DE GÉNIE RURAL
146, CHAUSSÉE DE NAMUR
GEMBLOUX - BELGIQUE

STATION DE GENIE RURAL - GEMBLOUX	Tractor ZETOR 10045	O.E.C.D. Report N° 671

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Tractor manufacturer : ZETOR - BRNO - CZECHOSLOVAKIA
Submitted for test by : Manufacturer
Selected by : Manufacturer with the agreement of the testing station
Place of running-in : Manufacturer
Duration of running-in : appr. 20 hours

SPECIFICATION OF TRACTOR

Tractor :

Make : ZETOR
Model : Four wheel, all wheel driven, unit construction with cab
Type : 10045
Serial n° : 1002

Engine :

Make : ZETOR
Model : 4 stroke Diesel engine, direct injection, turbo charged
Type : Z 8002 Turbo
Serial n° : 1002

Cylinders : Number : 4 - Vertical in line - Bore, stroke : 110-120 mm
Capacity : 4561 cm^3 - Compression ratio : 17/1
Overhead valves : Wet cylinders liners

Fuel system :
Injection pump : MOTORPAL PP 4 M 85 Kld - 2480 in-line
Injection pump + fuel feed pump
Fuel filter : FD 10 RP 2,4 - dual filter with cartridges in paper - recommended change period : 600 hours
Injector nozzles : DOP 150 S 535 - 4360 - Multihole Injection nozzles
Injector pressure : 160 bar ± 3 bar
Injection timing : 24° + 2° before T.D.C.
Manufacturer's production setting : 75 mm^3/stroke at rated engine speed and full load
Fuel tank capacity : 125 litres

Governor : Make : PAL RV1M 225/1100-2501
Type : Mechanically operating variable speed type governor incorporated in injection pump
Governed range of engine speed : 550/2420 rev/min
Rated engine speed : 2200 rev/min

Turbo-charger :
HOLSET - 3LD - 12/1,41
Exhaust driven

Air cleaner :
Make : IFE MANN 500 - Oil bath - Oil capacity : 2,1 litres
Centrifugal precleaner PC 500

Exhaust silencer :
Own make
Chambre expansion type silencer
On the left side of the bonnet, month upwards
100 x 160 mm oval, 560 mm long
Month 2365 mm above ground

Lubrication system :
Type : forced feed from gear type pump - Heat exchanger before the centrifugal filter
Type of oil filter : RDP 3 A centrifugal
Recommended cleaning period : 200 hours
Oil capacity : 10 litres
Recommended oil change period : 200 hours
Recommended oil : in summer : SAE 30 20W/30
in winter : SAE 10W/30
the whole year : 10W/40
Quality : MIL-L-45199 B
A.P.I. : CD

Cooling system :
Water cooling, pressurized - belt driven fan with 4 blades
Ø 460 mm
Pump : centrifugal
Temperature control : thermostat and thermometer on the instrument panel
Cooling water capacity : 21 litres (23 litres with heating)
Pression : 0,4 ± 0,1 bar

Starting system :
Electrical - Type : 12 V - 2,9 kW
Solenoïd engaged type

Electrical equipment :
Voltage : 12 V
Alternator : PAL Magneton : 14 V - 35 A
Battery : 2 batteries 6 N 100 of 12 V and 90 Ah at 20 hours rating

Transmission

Clutch :
Make : ZETOR
Type : dry disc single type clutch for travel drive
External diameter : 325 mm
Foot-pedal operated

Gear box :
Make : ZETOR
Type : 4 gear box, group gear with 2 forward and 1 reverse group, torque amplifier, all handlever operated
Number of speeds : 16 forward and 8 reverse speeds

Rear axle and final drive :
Make : ZETOR
Type : crown wheel and pinion, bevel gear and differential, planetary reduction final drive
Differential lock, foot-pedal operated, self-disengaging

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Driven front axle and final drive :
Make : ZETOR
Type : crown wheel and pinion, bevel gear and differential without locking
Driven by the gearbox by an universal joint shaft
Engaging and disengaging with sliding handle operated hydraulic clutch
Planetary final drives in the front wheels

Oil capacity :
Gearbox, rear axle and power lift : 50 litres
Oil changing period : 1200 hours
Recommended oil : SAE 80 - Quality : A.P.I. : GL 4
Driven front axle : 3,5 litres (SAE 90) - Quality : A.P.I. GL4
Front planetary final drives : 2,5 litres (SAE 90)
Quality : A.P.I. : GL 4

Total ratios and speeds

Gear n°	Number of engine revolutions for one revolution of the driving wheel	Nominal travelling speed at rated engine speed and with 18,4/15-34 tyres °) km/h
Forward		
1B-A °°)	348,85	1,81
1B	260,40	2,42
2B-A	221,05	2,85
2B	165,22	3,82
3B-A	139,10	4,53
1H-A	119,42	5,28
3B	103,98	6,06
4B-A	97,72	6,45
1H	89,26	7,06
2H-A	75,76	8,32
4B	73,03	8,63
2H	56,63	11,13
3H-A	47,57	13,25
3H	35,65	17,68
4H-A	33,50	18,82
4H	25,04	25,17
Reverse		
1-A	254,75	2,47
1	190,43	3,31
2-A	161,64	3,90
2	120,83	5,22
3-A	101,72	6,20
3	76,04	8,29
4-A	71,45	8,82
4	53,40	11,80

°) Calculated with tyre rolling radius of 770 mm
°°) A = Torque amplifier in power position

Power take-off :

Independent p.t.o. :
At rear of tractor in median plane
Driven through a hand lever hydraulically operated multi-plate clutch
624 mm above ground (with 18,4/15-34 tyres)
Distance of p.t.o.-end to rear axle center : 510 mm

Power take-off - 1000 rev/min :
Replaceable p.t.o.-end
34,9 x 31,8 x 2,5 mm, 21 splines (ISO R 500)
1012 rev/min at rated engine speed (2200 rev/min)
Standard p.t.o. speed 1000 rev/min at 2174 rev/min engine speed
Direction of rotation : clockwise viewed from tractor rear

Power take-off - 540 rev/min :
Replaceable p.t.o.-end
29 x 34,9 x 8,7 mm = 1 3/8", 6 splines (ISO R 500)
629 rev/min at rated engine speed (2200 rev/min)
Standard p.t.o. speed 540 rev/min at 1890 rev/min engine speed
Direction of rotation : clockwise viewed from tractor rear
Maximum permissible torque at 540 rev/min : 680 Nm
Maximum permissible power at : 540 rev/min : 38 kW
629 rev/min : 44,3 kW

Proportional ground speed power take-off :
Travelling distance for one revolution of the p.t.o. shaft : 0,174 m
27,4 revolutions of the p.t.o. shaft for one revolution of the driving wheel
Direction of rotation : clockwise viewed from tractor rear when travelling forward

Power lift :

Make : ZETORMATIC
Type : single acting ram
Position control, draft control by lower links and mixing control
Gear type pump driven by transmission in the clutch housing in amount of p.t.o. clutch - disconnecting drive
Auxiliary acting ram : bore : 50 mm - stroke : 287 mm
Auxiliary power lift pump : driven by an eccentric on the p.t.o. shaft
Recommended oil : SAE 80 - Quality : A.P.I. : GL 4
Type of filter : strainer and paper element filter - Recommended change period : 600 hours
Recommended oil change period : 1200 hours
Oil capacity : 50 litres (transmission oil), 15 l may be taken off through oil tappings
External tappings : 2

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Implement linkage :

Three point implement linkage, ISO R 730, category 2, operated by power lift
Lifting rods length adjustable from 525 to 630 mm
Lifting range above ground with :
lifting rods short : from 257 to 1007 mm
lifting rods long : from 67 to 817 mm

Holed drawbar :

Type : double bar with 7 holes of 32 mm diameter, 80 mm distance each
Thickness of the bar : 20 mm - width : 90 mm
Length between the joint balls : 870 mm
Height above ground adjustable by power lift from 103 to 1043 mm, measured at the surface of the drawbar
With lower links in horizontal position :
horizontal distance of centre hole to rear axle centre : 1040 mm
horizontal distance of centre hole to p.t.o. shaft end : 530 mm

Pull attachment :

1) Trailer hitch :
At rear of tractor
Height above ground adjustable in four positions : 726 and 833 mm
Diameter of coupling pin : 38 mm
Horizontal distance of hole from rear axle centre : 722 and 727 mm
Distance of hole from p.t.o. shaft end : 212/215 mm behind
98/103 mm above
Maximum static downward load : not specified

2) Towing hitch :
At front of tractor
Height above ground : 825 mm
Diameter of coupling pin : 30 mm

Hook :

At rear of tractor
Height above ground : 415 mm
Operated by power lift
Distance from centre to rear axle : 640 mm
Position relative to p.t.o. : 120 mm behind
209 mm below
Pivot position relative to rear wheel centre : 310 mm behind

Steering :

Make : PILMET WROCLAW - Recirculating ball type
Steering wheel operated
Type : with universal joint shaft
Hydraulically power assisted - Number of cylinders : 1
Pump delivery : 10 l/min at 1200 rev/min of the engine - Max. pressure : 82,8 + 8 bar

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Brakes :

a) Foot brake :
Make : ZETOR
Type : dry discs brakes on differential shafts
Diameter of discs : 227 mm
Hydraulically acting
Operated by the single parts of the divided pedal of foot brake; for normal use both parts are connected together

b) Parking brake :
Type : mechanically acting on discs of service brakes
Operated by a handlever with locking ratch

Wheels :

Steering wheels : Number : 2 - Location : at front
Type of tyres : 12,4/11-24; 6 ply, diagonal carcass
Maximum permissible load on each tyre : 1160 kg at 1,6 bar inflation pressure and 30 km/h velocity
Track width : 1630 mm
Rims : W 9 x 24

Driving wheels : Number : 4 - Location : at front and in the rear
At front : see steering wheels
In the rear : type of tyres : 18,4/15-34; 8 ply, radial carcass
Maximum permissible load on each tyre : 2565 kg at 1,4 bar inflation pressure and 30 km/h velocity
Track width : 1500 and 1725 mm
Changed by turning wheels
Rims : W 15 x 34

Wheel base : 2385 mm

Lighting :

Unrestricted beam angle of headlights in plan view : 20 mm/m

	Height above ground of centre	Size	Distance from outside edge of tractor to centre at 1500 mm track
	mm	mm	mm
Headlights	1135	Ø 140	485
Side lights	1735	43x55	58
Rear lights	1403	106x72	255
Reflectors	1206	Ø 75	140

Number of grease points :

Whole tractor : 15

CONDITIONS DURING TEST

Masses :

Tractor without driver but with tanks full and cab

	Front	Rear	Total
	kg	kg	kg
Without ballast	1760	2472	4232
With ballast	2140	3383	5523

Ballast :

	Number of weights	Total mass	Water
		kg	kg
Front end	12	337	-
Rear wheels	6	254	700

Track setting during tests :

Front : 1500 mm
Rear : 1500 mm

Overall dimensions :

Length : 4140 mm, with or without ballast (lower links - front of bonnet)

Width : 1950 mm, with or without ballast and at 1500 mm track (tires at rear)

Height : 2365 mm, to top of exhaust pipe
2470 mm, to top of cab

Ground clearance : 315 mm (pivot of hook)

Seat :

Make : ZETOR
Type : upholstered seat with back rest
Type of suspension : parallelogram linkage
Type of shock absorber : hydraulic and pneumatic shock absorber
Adjustment : in length direction : 250 mm
in height : none

FUEL AND LUBRICANTS USED IN TESTS

Laboratory tests :

Fuel : type : SHELL diesel-fuel - Density : 0,840 kg/l at 15°C
Engine oil : type : SHELL Rimula CT - Viscosity : SAE 30 20W/30
Transmission oil : OA-PP 80 - Viscosity : SAE 80

Drawbar tests :
Fuel : type : SHELL diesel-fuel - Density : 0,840 kg/l at 15°C
Engine oil : type : SHELL Rimula CT - Viscosity : SAE 30 20W/30
Transmission oil : OA-PP 80 - Viscosity : SAE 80

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COMPULSORY TESTS

I. MAIN POWER TAKE-OFF PERFORMANCE

Date and location of tests : 24.10.1978 - GEMBLOUX
Type of dynamometer : electrical SCHENCK W 780

Power	Speed		Fuel consumption		
	Engine	P.t.o.	Total	Specific	Specific energy
kW	rev/min	rev/min	l/h	g/kW h	kW h/l
At maximum power - 2 hours test					
66,7	2200	1012	20,619	260	3,23
At standard p.t.o. speed (1000 rev/min)					
66,6	2174	1000	20,512	259	3,25
At the speed recommended by the manufacturer for drawbar work					
66,7	2200	1012	20,619	260	3,23
Fuel consumption at part loads					
I) 85% of torque at maximum power					
58,0	2259	1039	18,557	269	3,13
II) Unloaded					
-	2426	1116	5,992	-	-
III) 50% of the load defined in (I)					
30,2	2344	1078	12,064	336	2,50
IV) Maximum power					
66,7	2200	1012	20,619	260	3,23
V) 25% of the load defined in (I)					
15,4	2391	1100	8,931	487	1,72
VI) 75% of the load defined in (I)					
44,5	2307	1061	15,287	288	2,91

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No load maximum engine speed : 2426 rev/min

Torque °) at maximum power : 290 Nm

Maximum torque °) : 322 Nm at 1598 rev/min of the engine

Mean atmospheric conditions :
- temperature : 20°C
- atmospheric pressure : 1005 m bar
- relative humidity : 92%

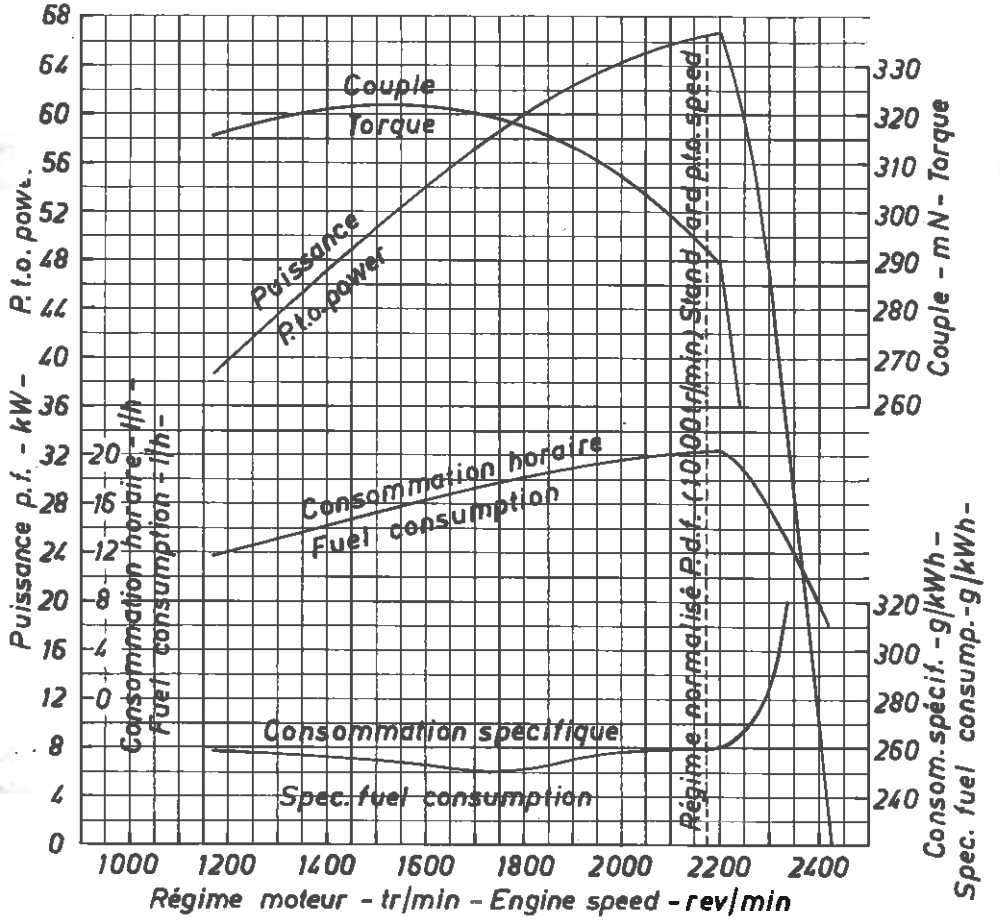
Maximum temperatures :
- coolant : 80°C
- engine oil : 93°C
- fuel : 29°C

°) The torque is the equivalent crankshaft torque

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Essais au banc à la prise de force

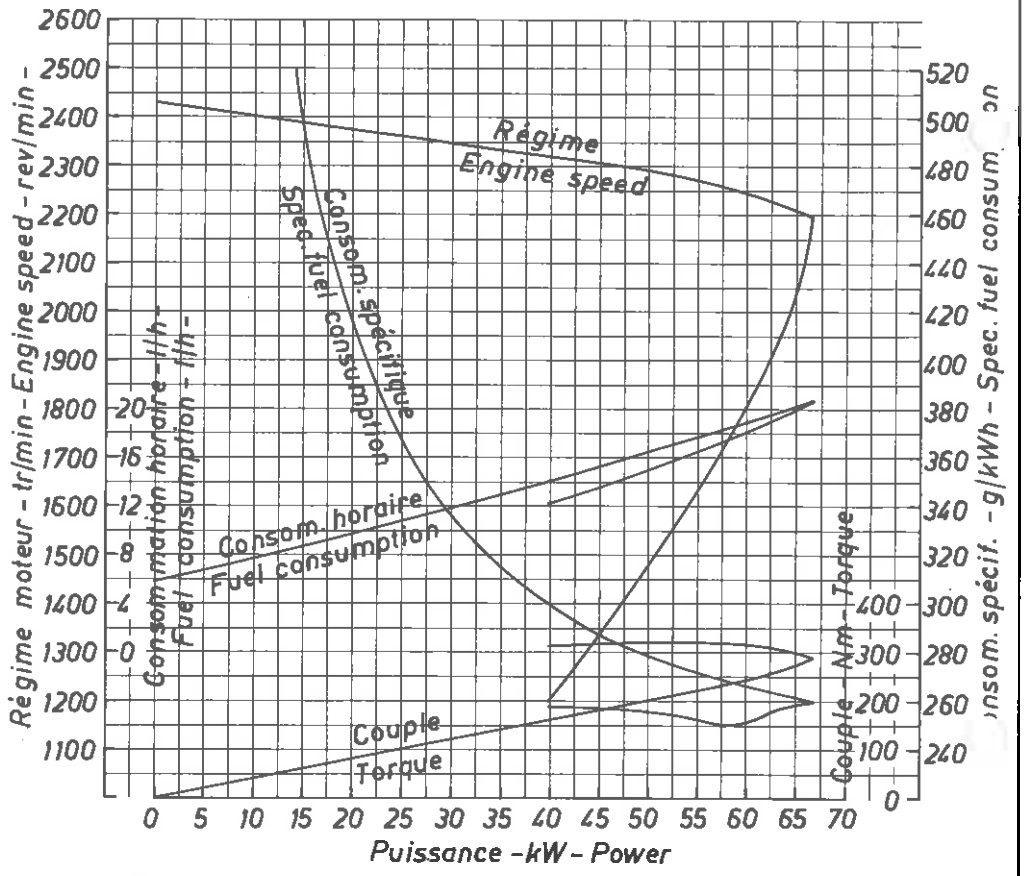
Power take - off test



Tracteur : ZETOR 10045	Accouplement : prise de force	Date épreuve : 24 - 10 - 1978
Moteur: n° 010	T° de l'air : 20°C	STATION DE GENIE RURAL C.E.M.A.G. - Gembloux
Combustible : dens.: 0,840 à 15°C	Pression barom. : 1005 mbar	

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Essais au banc à la prise de force
Power take - off test



Tracteur : *ZETOR 10045*	*Accouplement :* *prise de force*	*Date épreuve :* *24 - 10 - 1978*
Moteur: n° 010	*T° de l'air : 20°C*	*STATION DE GENIE RURAL C.E.M.A.G. - Gembloux*
Combustible : *dens.: 0,840 à 15° C*	*Pression barom. :* *1005 mbar*	

II. DRAWBAR PERFORMANCE ON A CONCRETE TRACK

Date of tests : June and July 1979
Type of track : concrete
Height of drawbar above ground : tractor with ballast : 770 mm
tractor without ballast : 801 mm
Tyres size : front : 12,4/11-24, 6 ply - inflation pressure : 1,2 bar
rear : 18,4/15-34, 8 ply - inflation pressure : 1,2 bar for all tests

Gear n° and group	Speed	Power	Drawbar pull	Engine speed	Slip of wheels	Consumption		Temperatures			Atmospheric conditions		
						Specific energy	Specific fuel consumption	Fuel	Coolant	Engine oil	Temperature	Relative humidity	Atmospheric pressure
	km/h	kW	N	rev/min	%	kW h/l	g/kW h	°C	°C	°C	°C	%	m bar
I) MAXIMUM POWER (tractor with ballast)													
1B-A	1,65	21,9	47770	2380	15,0	-	-	14	80	84	11	83	1006
1B	2,23	29,6	47770	2372	15,0	-	-	20	82	86	17	61	1016
2B-A	2,53	33,6	47770	2359	15,0	2,21	379	15	80	84	11	83	1006
2B	3,48	46,1	47770	2285	15,0	2,59	324	20	82	86	17	61	1016
3B-A	3,91	51,9	47770	2236	15,0	2,50	336	15	80	84	11	83	1016
1H-A	4,61	56,1	43850	2210	10,6	2,66	317	16	80	84	11	83	1006
3B	5,47	60,8	40020	2202	8,4	2,98	282	21	82	86	17	61	1016
4B-A	5,87	62,4	38260	2201	7,8	3,00	280	16	80	84	11	83	1006
1H	6,52	63,0	34830	2200	6,7	3,00	280	21	82	87	17	61	1016
2H-A	7,85	63,5	29150	2200	5,7	3,09	272	21	82	87	17	61	1016
4B	7,92	63,8	29040	2197	4,8	3,11	269	21	82	87	17	61	1016
2H	10,80	64,2	21410	2198	2,9	3,10	271	21	82	87	17	61	1016
3H-A	12,98	63,9	17760	2198	2,2	3,15	267	21	82	87	17	61	1016
II) FIVE HOURS TEST at 75% of pull at maximum power													
4B-A	6,23	49,7	28740	2277	4,6	2,68	313	23	87	94	19	80	988

Gear n° and group	Speed	Power	Drawbar pull	Engine speed	Slip of wheels	Consumption		Temperatures			Atmospheric conditions		
						Specific energy	Specific fuel consumption	Fuel	Coolant	Engine oil	Temperature	Relative humidity	Atmospheric pressure
	km/h	kW	N	rev/min	%	kW h/l	g/kW h	°C	°C	°C	°C	%	m bar
III) FIVE HOURS TEST at pull corresponding to 15% wheelslip in test (I)													
3B-A	-	-	47770	2232	-	-	-	24	87	93	21	79	990
IV) MAXIMUM POWER (tractor without ballast)													
1B-A	1,70	18,6	39530	2384	15,0	-	-	23	80	90	19	64	1006
1B	2,20	24,1	39530	2356	15,0	-	-	23	80	90	19	64	1005
2B-A	2,63	28,8	39530	2317	15,0	-	-	23	80	90	19	64	1006
2B	3,38	37,1	39530	2217	15,0	-	-	23	80	90	19	64	1005
3B-A	4,01	44,0	39530	2254	15,0	-	-	23	81	91	19	64	1006
1H-A	4,65	51,0	39530	2233	15,0	-	-	24	81	91	19	64	1005
3B	5,22	54,3	37470	2208	11,1	-	-	24	81	91	20	64	1005
4B-A	5,76	56,6	35410	2200	9,4	-	-	24	81	91	20	64	1005
1H	6,48	57,9	32180	2200	7,8	-	-	24	82	92	20	64	1006
2H-A	7,74	58,6	27270	2200	6,2	-	-	24	82	92	20	64	1006
4B	8,17	59,0	26000	2198	5,8	-	-	24	82	92	20	64	1006
2H	10,51	59,6	20410	2204	4,5	-	-	24	82	92	20	64	1006
3H-A	12,74	59,1	17140	2196	3,7	-	-	24	82	92	20	64	1006

Total oil consumption during ten hours duration of tests (II) and (III) : 27 g/h

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III. TURNING SPACE AND TURNING CIRCLE

Wheel equipment : front : 12,4/11-24, 6 ply
rear : 18,4/15-34, 8 ply

Track of wheels : front : 1500 mm
rear : 1500 mm

	With brakes		Without brakes	
	Right hand	Left hand	Right hand	Left hand
	m		m	
With all-wheel drive				
Radius of turning space	4,35	4,33	6,13	6,07
Radius of turning circle	4,18	4,12	5,92	5,86
With rear-wheel drive				
Radius of turning space	4,63	5,62	6,47	6,41
Radius of turning circle	4,42	5,41	6,26	6,20

IV. LOCATION OF CENTRE OF GRAVITY

Height above ground	817 mm
Distance forward from the vertical plane containing the axis of the rear wheels	933 mm
Distance of the medium plane of the tractor	3 mm to the left

V. BRAKE TESTS

Date of tests : 19.4.79 and 24.7.79
Type of track : concrete
Type of decelerometer : MOTO-METER, recording type
Weight of ballasted tractor : 5523 kg without driver

COLD BRAKES

	With ballast	Without ballast
Travelling speed - km/h	25	25
Deceleration - m/s^2	4,2	5,9
Stopping distance - m	5,9	5,8
Force on pedal - N	520	383
Force on pedal to achieve a deceleration of 2,5 m/s^2 - N	373	231

BRAKE FADE CHARACTERISTICS (hot tests)

	With ballast	Without ballast
Deceleration : hot/cold x 100 - %	107	104
Stopping distance : cold/hot x 100 - %	94	91
Force on pedal : cold/hot x 100 - %	96	93

PARKING BRAKE

Tractor facing up slope (16%) :
Pull on hand brake : 206 N, tractor does not roll

Tractor facing down slope (16%) :
Pull on hand brake : 216 N, tractor does not roll

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VI. MEASUREMENT OF AMBIANT NOISE EMITTED BY THE TRACTOR

Date of test : 30.11.78
Type of track : concrete
Type of sound level meter : BRÜEL & KJAER, type 2203

Results of test :
Gear : 4H
Travelling speed before acceleration : 20,82 km/h
Sound level : 86,5 dB(A)

VII. NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of tests : 30.11.78
Type of track : concrete
Type of sound level meter : BRÜEL & KJAER, type 2203
Type of octave filter : BRÜEL & KJAER, type 1613
A cab was fitted on the tractor

Results of tests :

Gear n°	Travelling speed km/h	dB(A)	Sones
1B-A	1,94	85,5	51,1
1B	2,55	86,5	52,9
2B-A	2,98	85,5	50,0
2B	3,88	87	53,2
3B-A	4,63	86	50,0
1H-A	5,25	86	50,2
3B	6,05	87	54,8
4B-A	6,45	86	52,7
1H	7,07	86	52,2
2H-A °)	7,33	86	52,8
4B	8,49	86	51,5
2H	10,72	85,5	53,1
3H-A	13,60	86	52,8
3H	18,10	86	51,2
4H-A	19,20	86,5	53,3
4H °°)	27,10	86,5	51,1

°) The 2H-A gear corresponds to the travelling speed nearest to 7,5 km/h
°°) With light load

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VIII. POWER LIFT AND HYDRAULIC PUMP PERFORMANCE

Date and location of tests : 25 and 26.7.79 - GEMBLOUX
Hydraulic fluid : viscosity : SAE 80
Type of linkage lock for transport : hydraulically acting linkage lock

HYDRAULIC PUMP

A. Principal circuit of power lift :

1) Opening pressure of relief valve : 134 bar
Sustained pressure by open relief valve : 169 bar

2) Pump delivery rate at minimum pressure and maximum engine Speed : 35 l/min

3) Pump delivery rate : 34,0 l/min
Delivery pressure : 154 bar
Hydraulic power : 8,7 kW

B. Remote circuit :

Same characteristics as principal circuit

C. Auxiliary delivery pump :

1) At 1000 rev/min of p.t.o.

Pump delivery rate : 3,8 l/min
Delivery pressure : 176 bar
Hydraulic power : 1,1 kW

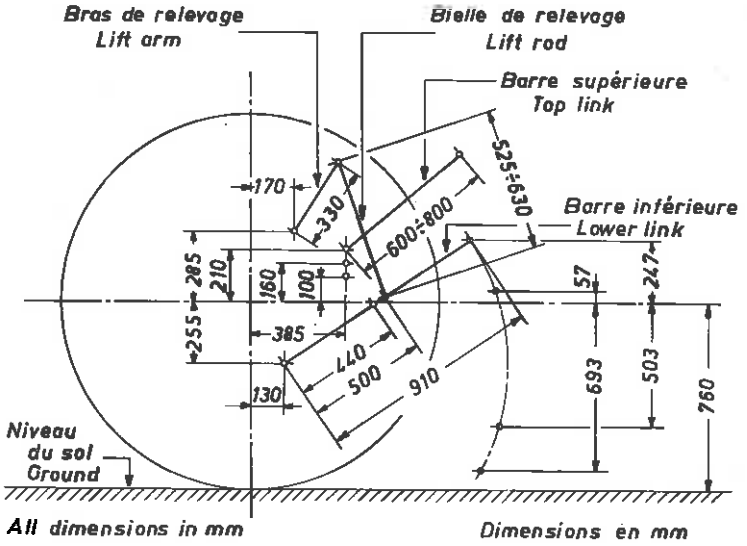
2) At 540 rev/min of p.t.o. :

Pump delivery rate : 2,1 l/min
Delivery pressure : 176 bar
Hydraulic power : 0,6 kW

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POWER LIFT

Dimensions of linkage geometry for the table on page 23.



LIFTING FORCES

Lifting heights relative to horizontal lower links

mm	-438	-400	-300	-248	-200	-100	0	+100	+200	+300	+312	+400	+502
At hitch points °)													
Maximum mechanical advantage													
N				40000	40080	40270	40560	41010	41740	42720		43605	44440
Minimum mechanical advantage													
N	35610	35630	35660		36100	36840	38810	38950	39340	39610	39650		

Max. force exerted throughout the whole range : 40000 N/35610 N
Force at which front of tractor is calculated to lift with maximum ammowable front ballast : - N °°)
Oil pressure : 169 bar

mm	-262	-200	-188	-100	0	+100	+200	+300	+329	+400	+500	+600	+612
At test frame °)													
Maximum mechanical advantage													
N	49050	46700		43650	41200	39140	37470	36300	36000				
Minimum mechanical advantage													
N			41590	39370	37770	36200	33060	32180		31290	30610	29920	29230

Max. force exerted throughout the whole range : 36000 N/29230 N
Force at which front of tractor is calculated to lift with maximum allowable front ballast : 32900 N
Oil pressure : 169 bar

°) All values of forces for pressure at max. hydraulic power calculated from measurements at maximum oil pressure.

°°) Force at which front of tractor is calculated to lift with maximum allowable front ballast is in excess of the measured values.

LINKAGE GEOMETRY WHEN CONNECTED TO THE STANDARD FRAME

	Maximum mechanical advantage	Minimum mechanical advantage
Projected length in side view :		
Lower links	910 mm	910 mm
Lift arms	330 mm	330 mm
Lift rods	630 mm	525 mm
Top link	630 mm	630 mm
Distance of lift rod connection point from pivot point of lower link	500 mm	440 mm
The following dimensions are given relative to rear axle centre line 760 mm above ground		
Lower link pivot point	130 mm behind, 255 mm below	130 mm behind, 255 mm below
Top link pivot point	385 mm behind, 210 mm above	385 mm behind, 210 mm above
Lift arm pivot point	170 mm behind, 285 mm above	170 mm behind, 285 mm above
Maximum and minimum height of lower link hitch points	57 mm above, 693 mm below	247 mm above, 503 mm below
Height of lower link hitch points when locked in transport position	No definite transport position	No definite transport position

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ADDITIONAL TEST

Out of the O.E.C.D. CODE under the responsability of the "Station de Gênie Rural de l'Etat".

NOISE AT THE DRIVER'S EAR LEVEL

Date of test : 30.11.78
Test track : concrete
Type of sound level meter : BRÜEL & KJAER, type 2203
Type of frequency analyser : BRÜEL & KJAER, type 1613

The tractor was fitted with a safety cab

Results of test :

Octave analysis in the 2H-A of which the travelling speed is nearest to 7,5 km/h reported in the diagram of the noise rating curvers.

Gear	Travelling speed	Sound level	
	km/h	dB(A)	Noise rating
2H-A	7,33	86	84,5

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Area limited by the maximum and minimum values of the octave analysis by all speeds.

