O.E.C.D. REPORT N° 987

TEST BULLETIN
TRACTOR

AGROZET TRAC MT-8-050

MANUFACTURED BY : AGROZET PROSTĚJOV - CZECHOSLOVAKIA



DATE OF TESTS : JANUARY 1985 - OCTOBER 1985

DATE OF APPROVAL : 14TH JANUARY 1986

MINISTÈRE DE L'AGRICULTURE
STATION DE GÉNIE RURAL

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STATION DE GENIE RURAL - GEMBLOUX	Tractor AGROZET TRAC MT-8-050	O.E.C.D. Report N° 987

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STATION DE GENIE RURAL - GEMBLOUX	Tractor AGROZET TRAC MT-8-050	O.E.C.D. Report N° 987

Tractor manufacturer : AGROZET Prostejov - Czechoslovakia
Submitted for test by : MOTOKOV - Prague - Czechoslovakia
Selected by : Manufacturer with the agreement of te testing station
Place of running in : Manufacturer
Duration of running-in : appr. 20 hours

SPECIFICATION OF TRACTOR

Tractor :

Make	: AGROZET
Type	: MT-8-050
Model	: Wheel tractor, unit construction, all wheel driven
Serial N°	: 010
1st Serial N°	: 010

Engine :

Make	: SLAVIA
Type	: 2S90A
Model	: 4 stroke Diesel-engine, direct injection, aircooled
Serial N°	: 224114
Cylinders	: Number : 2 - Vertical in line - Bore, stroke : 90-90 mm Displacement : 1145 cm³ - Compression ratio : 17,2/1 Replaceable ribbed cylinders - Overhead valves
Fuel system :	Fuel feed pump MOTORPAL CD 1 M Injection pump MOTORPAL PR 2 M 7 K 16 Oe 110, in line - Serial N° : 0037 Fuel filter AUTOBRZDY with cartridge in paper Fuel tank capacity : 16 l Manufacturer's production setting : 30 mm³/stroke at 2700 rev/min and full load Injection timing : 32-33° before T.D.C. Injector nozzles : MOTORPAL DOP 145 S 428, multihole Injection pressure : 190-208 bar
Governor :	Make : SLAVIA Type : centrifugal variable speed governor Governed range of engine speed : 700 to 2870 rev/min Rated engine speed : 2700 rev/min
Air cleaner :	Make : SANDRIK, licence IFE FILTERBAU At left side of engine, at rear Type : Oilbath - Oil capacity : 0,7 l Maintenance indicator : none Precleaner
Exhaust system:	Make : SLAVIA - Type : Double chamber expansion type silencer Vertical, on the left side of engine Length of expansion chamber : 240 mm - 150x120 mm (oval) Height of moutlet above ground : 1575 mm

Lubrication system :
Type : Forced feed from gear pump
Strainer in pump - Type : AXOMIORON 2688/110/SU, licence SAVARA
Oil and filter change period : 200 hours
Oil capacity : 4 l
Recommended oil : SAE 20W50
Specified oil quality : MIL-L-2104 B
API - CC

Cooling system: Air cooling
Belt driven axial blower with 12 blades - Ø 190 mm

Starting system :
Electrical - Make : ZEM, licence PAL MAGNETON
Solenoid pre-engaged-drive starting motor
Type : 12V - 1,3 kW
Cold starting aid : by engine decompression
Safety device : on clutch pedal

Electrical equipment :
Voltage : 12V
Generator : alternator PAL MAGNETON
Type : 14V - 35A
Battery : 1 - Rating : 90 Ah at 20 hours rating

Transmission :

Clutch : Make : SKODA
Type : Dry single disc type clutch for travel drive, by pedal hydraulically operated
Clutch disc diameter : 200 mm

Gear box : Make : AGROZET
Type : 4 gear box with 2 forward groups and reverser, all handlever operated
Number of speeds : 8 forward and 8 reverse speeds

Rear axle and final drive :
Make : AGROZET
Type : Crown wheel and pinion, bevel gear and differential
Spur gear final drives
Differential lock, foot-pedal operated, self-disengagi

Front axle and final drive :
Make : AGROZET
Bevel gear drive with bevel gear differential without lock
Driven by the gearbox by homocinetics shafts
Spur gear final drives
Handle operated

Total ratios and speeds (tyres 7.50-16)

Gear	Range	Total ratio engine to driving wheel	Nominal travelling speed *) at rated engine speed km/h	
			Forward	Reverse
1	I	293,09	1,35	1,35
2		184,20	2,14	2,14
3		117,93	3,35	3,35
4		74,25	5,32	5,32
1	II	63,96	6,18	6,18
2		40,20	9,82	9,82
3		25,73	15,35	15,35
4		16,20	24,38	24,38

*) Calculated with the radius index 388 mm

Transmission lubrication :

Gear box)
Rear axle) 10 l - SAE 90 - A.P.I. GL-4
Final drives)

Front axle + final drives : 5 l SAE 90 - A.P.I. GL-4
Homocinetics shafts : 2x0,5 l - SAE 90 - A.P.I. GL-4
Reverser : 0,3 l - SAE 90 - A.P.I. GL-4
Oil change : 2000 hours

Power take-off :

a) Main power take-off : independent of main clutch
- Type of connection at engine :
  . Engagement by hand lever operated multiplate clutch
  . Changing power take-off speeds by hand lever
  . Number of shafts : 1
- Location : At rear of tractor in median plane
  398 mm above ground (7.50-16 tyres)
  Distance behind rear axle : 220 mm

540 rev/min :
35 mm, 6 splines (ISO R 500)
630 rev/min at rated engine speed (2700 rev/min)
Standard p.t.o. speed 540 rev/min at 2314 rev/min engine speed
Engine to p.t.o. ratio : 4,286
Direction of rotation : clockwise viewed from tractor rear

1000 rev/min :
35 mm, 6 splines (ISO R 500)
1185 rev/min at rated engine speed (2700 rev/min)
Standard p.t.o. speed 1000 rev/min at 2279 rev/min engine speed
Engine to p.t.o. ratio : 2,279
Direction of rotation : clockwise viewed from tractor rear

b) Front power take-off :
- Type of connection at engine : same as main power take-off
- Location : At front of tractor in median plane
303 mm above ground (7.50-16 tyres)
Distance to front axle center : 350 mm

Power take-off speeds : same as main power take-off
Direction of rotation : clockwise viewed from tractor front

Power lift :

a) At rear : Make : AGROZET
Type : double acting ram - Bore : 60 mm - Stroke : 125 mm
Controls : Position control and floating position
Lift pump type : GIDRAVLIKA, gear, directly driven by engine
Relief valve pressure setting : 125 bar
Safety valve : none
Number and type of filters : 1 strainer - Recommended oil and filter change period : 450 - 500 hours
Oil capacity : 12 l in separate tank
Recommended oil : SAE 20 - DIN 51525 H-LP 37
External tappings : 2 at rear of tractor
maximum volume of oil available to external cylinders : 4 l

b) At front : Optionally available, fitted on tested tractor
Operated by additional control valve
Type : 2 double acting rams - Bore : 40 mm - Stroke : 100 mm, directly acting on lower links

Implement linkage :

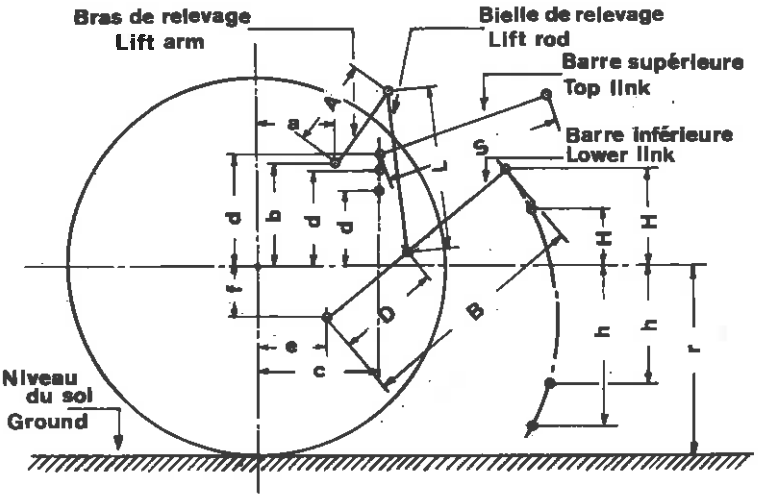
a) At rear : Three point linkage, according to ISO 730/II, category 1N
Lift rods adjustable from 312 to 358 mm
Lifting range above ground with :
. lifting rods short : from 145 to 595 mm
. lifting rods long : from 57 to 507 mm

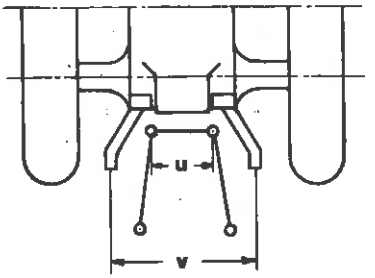
b) At front : Three-point linkage, according to ISO 730/II, category 1N
Lifting range above ground from 177 to 505 mm

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Power lift (at rear)

Dimensions of linkage geometry, mm





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Rear tyres (size 7.50-16) radius index		(r)	388 mm
Front tyres (size 7.50-16) radius index		(r')	388 mm
Length of lift arms		(A)	185 mm
Length of lower links		(B)	485 mm
Distance of lift arm pivot point from rear wheel centre line	horizontally	(a)	160 mm
	vertically	(b)	215 mm
Horizontal distance between the 2 lower link points		(u)	257 mm
Horizontal distance between the 2 lift arm end points		(v)	339 mm
Length of upper link		(S)	365 to 410 mm
Distance of upper link pivot point from rear wheel centre line	horizontally	(c)	248 mm
	vertically	(d)	160, 205 and 236 mm
Distance of lower link pivot point from rear wheel centre	horizontally	(e)	140 mm
	vertically	(f)	98 mm
Distance of lower link pivot points to lift rod pivot points on lower links		(D)	210 mm
Length of lift rods		(L)	312 to 358 mm
Height of lower link hitch points relative to rear axle centre line			
. Lowest position		(h)	-243 to -331 mm
. Highest position		(H)	+119 to +207 mm

Drawbar :

a) At rear : Short bar, fitted on clevis of rear lower links
Length between the joint balls : 400 mm - width : 60 mm - thickness : 44 mm
Only 1 hole in centre of bar, 33 mm dia, acting as trailer hitch
Height above ground adjustable by power lift in the range from : minimum : 79 and 167 mm
maximum : 529 and 617 mm, measured at the surface of the bar.
Distance of holes centre line with lower links in horizontal position :
from rear axle centre : 615 mm
from p.t.o. shaft end : 395 mm

b) At front : Same bar as at rear, fitted on clevis of front lower links
Height above ground adjustable by power lift in the range from : minimum : 199 mm
maximum : 527 mm, measured at the surface of the bar

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Pull attachment :

a) At rear : In common with the drawbar
Height above ground adjustable by power lift in the range from : minimum : 57 and 145 mm
maximum : 507 and 595 mm
Distance of hitch point from rear axle centre : 615 mm
Distance of hitch point from power take-off shaft end : 395 mm
Coupling pin 30 mm dia
Permissible vertical load : not specified

b) At front : In common with the drawbar
Height above ground adjustable by power lift in the range from : minimum : 177 mm
maximum : 505 mm
Coupling pin 30 mm dia

Steering :

Make : SKODA - Type : Worm gear box
Mechanical type working

Brakes :

a) Service brake :
Make : AGROZET
Type : Dry discs brakes on differential shafts
Diameter of discs : 120 mm
Hydraulically acting
Operated similtaneously on the 2 brakes by pedal
Steering brake : none
Trailer brake : none

b) Parking brake :
Make : AGROZET
Type : Dry discs brakes
Operated by handle and cable on the service brakes

Wheels :

a) Steering wheels :
Number : 2 - Location : At front
Type and size of tyres : 7.50-16, 6 ply, diagonal type tyre casing
Maximum permissible load on each tyre : 625 kg at 2,2 bar inflation pressure and 30 km/h
Track width : 900, 975, 1050 and 1125 mm, by turning wheels
Rims : 5.50 F - 16

b) Driving wheels :
Number : 4 - Location : At front and at rear
Type and size of tyres : 7.50-16, 6 ply, diagonal type casing
Maximum permissible load on each tyre : 625 kg at 2,2 bar inflation pressure at 30 km/h
Track width : 900, 975, 1050 and 1125 mm, by returning wheels

Rims : 5.50 F - 16

c) Wheelsbase : 1350 mm

Seat :

Make : AGROZET SVRATKA - Upholstered seat with backrest
Type of suspension : Spring suspension, with spring regulation according to driver's weight (50 to 120 kg)
Type of shock absorber : hydraulic
Adjustment : in length : 150 mm
in height : none

Number of grease points : 13

Overall dimensions :

(front : 7.50-16 rear : 7.50-16 tyres fitted)

Length : 2635 mm (rear lower links - front of bonnet)
2825 mm (rear lower links - front lower links)

Width : minimum : 1100 mm (with 900 mm track)
maximum : 1325 mm (with 1125 mm track)

Height : 1575 mm (top of exhaust pipe)
1258 mm (top of steering-wheel)

Ground clearance : 239 mm (rear axle)

Lighting equipment :

In accordance with national legislation

	Height above ground of centre **)	Height above Size	Distance from outside edge of tractor to centre
	mm	mm	mm *)
Head lights	895	Ø 110	430
Side lights	1240	40 x 55	220
Rear lights	850	106 x 72	175
Reflectors	743	Ø 80	57

*) At 900 mm track width

**) Tyres fitted : front : 7.50-16
rear : 7.50-16

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TEST CONDITIONS

Tractor mass :

(without driver, without cab but with tanks full)

	Front	Rear	Total
	kg	kg	kg
Without ballast *)	665	578	1243

*) No ballast was fitted on tractor by manufacturer, all test were carried out without ballast.

Track of wheels : At front : 900 mm
At rear : 900 mm

FUEL AND LUBRICANTS USED IN TESTS

Fuel : SHELL Diesel fuel
Specific gravity at 15°C : at p.t.o. test : 0,848
at drawbar test: 0,848

Engine oil :
M 8 AD
Viscosity : SAE 20W/50

Transmission oil :
PP 90
Viscosity : SAE 90

Hydraulic fluid :
OT-H 2
Viscosity : SAE 20

Grease : Bearings : PND 22-235-76 - LV 2 - 3 - High temperature
Bearings : CSN 656915 - V2 - Normal medium
Bearings : CSN 656945 - A00 - Low speed

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COMPULSORY TESTS

1. MAIN POWER TAKE-OFF PERFORMANCE

Date and location of tests : 23th January 1985 - Gembloux
Type of dynamometer : Electrical, SCHENCK W 780

Power	Speed		Fuel consumption		Specific energy
	Engine	P.t.o.	Hourly	Specific	
kW	rev/min		l/h	g/kW h	kW h/l
MAXIMUM POWER - 2 HOUR TEST - AT RATED ENGINE SPEED					
13,9	2700	630	4,82	294	2,88
POWER AT STANDARD POWER TAKE-OFF SPEED (540 ± 10 rev/min)					
12,4	2314	540	4,34	297	2,86
PART LOADS					
(1) 85 % of the torque obtained at maximum power					
12,1	2764	645	4,35	305	2,78
(2) 75 % of the torque defined in (1)					
9,2	2794	652	3,44	317	2,67
(3) 50 % of the torque defined in (1)					
6,2	2829	660	2,85	390	2,18
(4) 25 % of the torque defined in (1)					
3,2	2846	664	2,18	578	1,47
(5) Unloaded					
-	2871	670	1,58	-	-

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Part loads, the governor hand lever in the position corresponding to the standard p.t.o. speed at full load (540 rèv/min)

Power	Speed		Fuel consumption		Specific energy
	Engine	P.t.o.	Hourly	Specific	
kW	rev/min		l/h	g/kW h	kW h/l
Torque corresponding to maximum power					
12,4	2314	540	4,34	297	2,86
(1) 85 % of the torque obtained at maximum power					
10,7	2344	547	3,56	282	3,01
(2) 75 % of the torque defined in (1)					
8,1	2383	556	2,82	295	2,87
(3) 50 % of the torque defined in (1)					
5,5	2426	566	2,26	348	2,43
(4) 25 % of the torque defined in (1)					
2,8	2439	569	1,69	513	1,66
(5) Unloaded					
-	2465	575	1,50	-	-

Standard specific fuel consumption : 305/390/282/348 g/kW h

- No load maximum engine speed : 2871 rev/min
- Equivalent crankshaft torque at maximum power : 49 Nm
- Maximum equivalent crankshaft torque : 52 Nm at 2100 rev/min of the engine
- Mean atmopheric conditions :
  - . temperature : 16°C
  - . pressure : 993 mbar
  - . relative humidity : 70 %
- Maximum temperatures :
  - . engine oil : 124°C
  - . fuel : 40°C
  - . air intake : 21°C
  - . engine cooling : 72°C

2. DRAWBAR PERFORMANCE

Date of tests : 28th October till 30 October 1985
Type of track : Tarmac
Height of drawbar above ground : 500 mm
Tyre size : front : 7.50-16, 6 PR - Inflation pressure : 1,2 bar
rear : 7.50-16, 6 PR - Inflation pressure : 1,2 bar

Gear	Driving speed	Power	Drawbar pull	Engine speed	Slip of wheels	Consumption		Temperatures			Atmospheric conditions		
						Specific fuel consumpt.	Specific energy	Fuel	Coolant	Engine oil	Tempera-ture	Relative humidity	Pressure
	km/h	kW	daN	rev/min	%	g/kW h	kW h/l	°C	°C	°C	°C	%	mbar
1) MAXIMUM POWER (tractor without ballast)													
I-1	1,08	2,7	883	2790	15,0	983	1,16	15	-	95	3	90	1012
I-2	1,80	4,4	883	2786	15,0	642	1,32	15	-	95	3	90	1012
I-3	3,09	7,6	883	2751	15,0	499	1,70	15	-	97	4	90	1012
I-4	4,79	11,0	822	2712	11,8	371	2,29	16	-	98	4	90	1012
II-1	5,80	11,5	714	2708	6,9	356	2,38	17	-	99	4	90	1012
II-2	9,00	11,1	441	2691	4,2	363	2,34	17	-	101	4	90	1012
2) FIVE HOURS TEST at 75 % of pull at maximum power													
II-1	5,92	8,8	536	2722	5,1	378	2,24	15	-	107	4	90	1013
3) FIVE HOURS TEST at pull corresponding to 15 % wheelslip in test (1)													
I-3	3,08	7,5	883	2753	15,0	-	-	15	-	106	4	90	1013

Total oil consumption during ten hours duration of tests (2) and (3) : 78 g/h

3. TURNING SPACE AND TURNING CIRCLE

Wheel equipment : front : 7.50-16
rear : 7.50-16

Track of wheels : front : 900 mm
rear : 900 mm

	Without brakes *)	
	Left-hand	Right-hand
Radius of turning space - m	3,09	3,11
Radius of turning circle - m	2,99	3,01

*) The tractor was not fitted out with a steering brake, tests were only carried out without brakes.

4. LOCATION OF CENTRE OF GRAVITY

Height above ground - mm	594
Distance forward from the vertical plane containing the axis of the rear wheels - mm	691
Distance from the median plane of the tractor - mm	6 to the left

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5. BRAKING

Date of tests : 5th July 1985
Masses during brake tests :

	Front	Rear	Total
Without ballast kg	665	578	1243

A. Type 0 Service brakes (cold)

Speed before application of brakes : 25,2 km/h

Tractor without ballast

Force on brake pedal	daN	15	30	45	50	65	75
Mean deceleration	m/s²	1,6	2,1	2,5	2,6	2,8	2,8

B. Type 1 Service brakes (hot)

Force on brake pedal	daN	20	34	48	60	76
Mean deceleration	m/s²	1,5	1,9	2,4	2,6	2,7

Comments on deviation and vibration : none

Brakes were heated by towing the tractir for 1 km

C. Parking brake

	Force applied on slope of 18 %		Force applied on slope of 12 % with trailer of 1243 kg	
	Up	Down	Up	Down
Pull on handbrake	24	22	20	20

6. MEASUREMENT OF EXTERNAL NOISE LEVEL

Date of test : 28th October 1985
Type of sound level meter : BRÜEL and KJAER, type 2203
Type of track : Tarmac

Results of test :

Gear : II-4
Travelling speed before acceleration : 19,3 km/h
Sound level : 88,3 dB(A) (exhaust side)

7. NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of tests : 28th October 1985
Type of sound level meter : BRÜEL and KJAER, type 2203
Type of track : Tarmac
Tractor not fitted with safety cab

Results of tests :

Gear	Drawbar pull	Travelling speed	Sound level
	daN	km/h	dB(A)
I-1	874	1,08	95,5
I-2	868	1,81	94,3
I-3	870	3,10	95,3
I-4	810	4,79	96,7
II-1 *)	light load	6,38	93,0
II-1 *)	693	5,77	95,5
II-2	400	9,40	96,5
II-3	250	15,12	95,5
II-4	light load	25,34	92,0

*) The II-1 gear corresponds to the travelling speed nearest to 7,5 km/h

8. POWER LIFT AND HYDRAULIC PERFORMANCE

Date and location of tests : 7th May 1985 - Gembloux

Hydraulic pump performance :

- Opening pressure of the relief valve : 114 bar
- Sustained pressure with relief valve open : 125 bar
- Pump delivery rate at minimum pressure : 10,0 l/min

- Hydraulic power at :
  - . 90 % of relief valve setting : 1,4 kW
  - . corresponding delivery rate : 7,6 l/min
  - . pressure : 113 bar

- Maximum hydraulic power : 1,8 kW
  - . corresponding delivery rate : 9,2 l/min
  - . pressure : 116 bar

- Tapping point : Double acting external tapping
- Temperature of hydraulic fluid : 65 ± 5°C

Power lift at rear

	Height of lower hitch point above ground in down position	Vertical movement	Maximum force exerted through full range	Corresponding pressure of hydraulic fluid	Moment about rear axle	Maximum tilt angle of mast over range of lift
	mm	mm	daN	bar	daNm	degrees
At hitch points	145	450	655	115	409	-
On the frame	145	730	300	115	371	25

Lifting heights relative to the horizontal plane including the lower link pivot points											
mm	-217	-200	-145	-100	0	+100	+200	+300	+305	+400	+503
Lifting forces at hitch points											
daN	-	-	925	900	875	810	735	660	655	-	-
Lifting forces at test frame											
daN	730	740	-	760	745	705	625	530	-	425	300

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LINKAGE GEOMETRY when connected to the standard frame (at rear)

Projected length in side view :

Lower links	(B)	485 mm
Lift arms	(A)	185 mm
Lift rods	(L)	335 mm
Top link	(S)	365 mm
Distance of lift rod connection point from pivot point of lower link	(D)	210 mm
Height of frames mast		360 mm

The following dimensions are given relative to the rear wheel centre line, situated 388 mm above ground :

Lower link pivot point	140 mm behind (e) - 98 mm below (f)
Top link pivot point	248 mm behind (c) - 236 mm above (d)
Lift arm pivot point	160 mm behind (a) - 215 mm above (b)
Maximum and minimum height of lower link hitch points	207 mm above (H) - 243 mm below (h)
Height of lower link hitch points when locked in transport position	207 mm above

Power lift at front

	Height of lower hitch point above ground in down position	Vertical movement	Maximum force exerted through full range	Corresponding pressure of hydraulic fluid	Moment about front axle	Maximum tilt angle of mast over range of lift
	mm	mm	daN	bar	daNm	degrees
At hitch points	177	325	494	115	408	-
On the frame	177	630	250	115	359	24

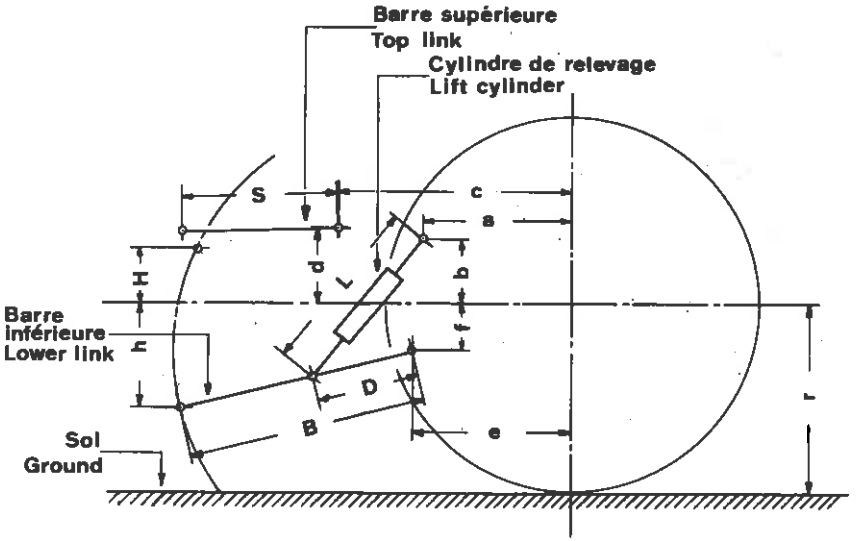
Temperature of hydraulic fluid : 65 ± 5°C

Lifting heights relative to the horizontal plane including the lower link pivot points										
mm	-227	-200	-118	100	0	+100	+200	+210	+300	+403
Lifting forces at hitch points										
daN	-	-	494	526	618	645	556	539	-	-
Lifting forces at test frame										
daN	380	380	-	380	375	355	335	-	300	250

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Power lift (at front)

Dimensions of linkage geometry, mm



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LINKAGE GEOMETRY when connected to the standard frame (at front)

Projected length in side view :

Lower links	(B)	495 mm
Lift cylinders	(L)	265 to 365 mm
Top link	(S)	322 mm
Distance of lift cylinder connection point from pivot point of lower link	(D)	217 mm
Heigth of frames mast		360 mm

The following dimensions are given relative to the front wheel centre line, situated 388 mm above ground (r) :

Lower link pivot point	330 mm before (e) - 93 mm below (f)
Top link pivot	486 mm before (c) - 152 mm above (d)
Lift cylinder pivot point	310 mm before (a) - 132 mm above (b)
Maximum and minimum height of lower link hitch points	117 mm above (H) - 211 mm below (h)
Height of lower link hitch points when locked in transport position	117 mm above

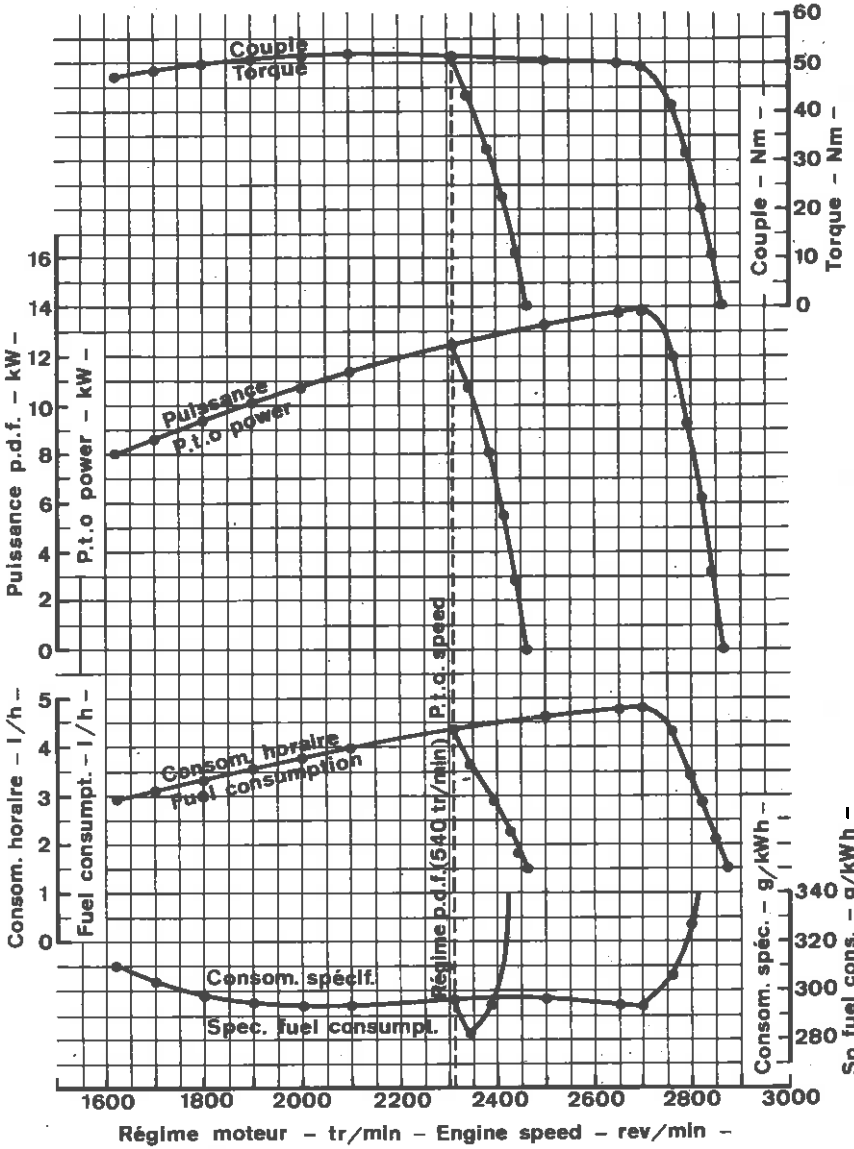
REMARKS : none

ANNEX : Curves

STATION DE GENIE RURAL - GEMBLOUX	Tractor AGROZET TRAC MT-8-050	O.E.C.D. Report N° 987

Essais au banc à la prise de force

Power take-off test



STATION DE GENIE RURAL - GEMBLOUX	Tractor AGROZET TRAC MT-8-050	O.E.C.D. Report N° 987

Essais au banc à la prise de force

Power take - off test

