

# NATIONAL MACHINERY TESTING INSTITUE

Head office S-750 07 Uppsala, Sweden

#### Testing stations:

S-750 07 Uppsala S-230 53 Alnarp S-900 05 Umeå (Central Sweden) (South Sweden) (North Sweden)

# **TEST BULLETIN: OECD No. 901**

Date of approval 1984-09-13

# REPORT ON TEST IN ACCORDANCE WITH OECD TEST CODE FOR THE OFFICIAL TESTING OF AGRICULTURAL TRACTORS

# AGRICULTURAL TRACTOR ZETOR 7245

Manufactured by: Agrozet-Zetor, Brno, Czechoslovakia

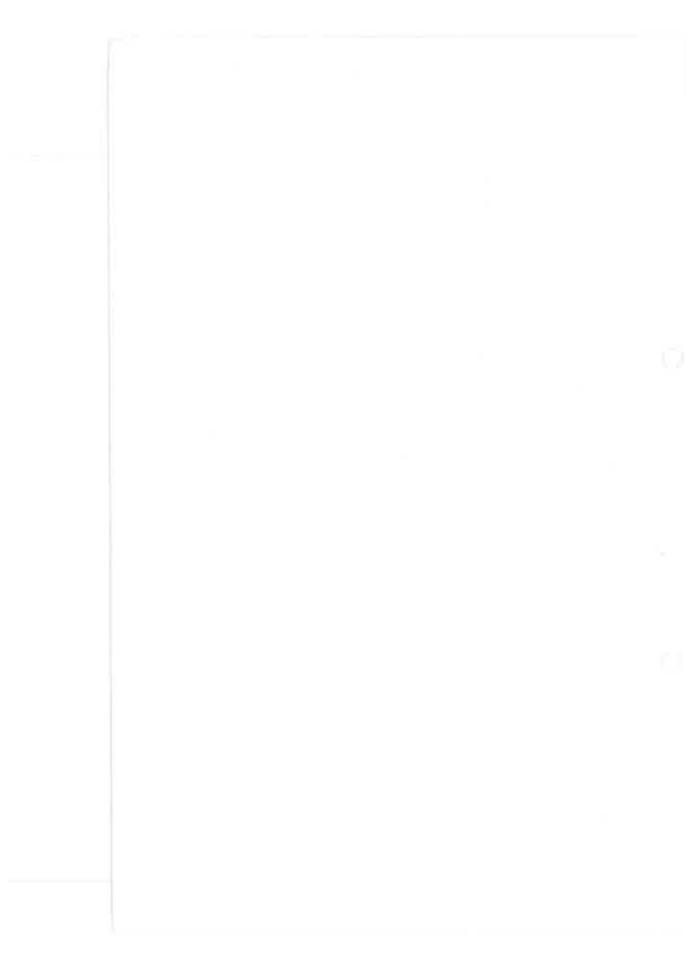
Test No. 6564



# Test bulletin: OECD No. 901 Agricultural tractor Zetor 7245



This bulletin is based on engineering tests in accordance with the OECD Tractor Code. It does not contain an evaluation of the performance of the tractor on practical farm work.



# OECD No. 901: ZETOR 7245

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Tractor manufacturer's

name and address: Agrozet-Zetor, Brno, Czechoslovakia Submitted for test by: Zetor Sweden AB, Helsingborg, Sweden

Selected for test by: The manufaturer with the agreement of the testing institute

Place of running in: Agrozet-Zetor, Brno, Czeckoslovakia

Duration of running in: 60 hours

# Specifikation of tractor

Make Zetor Model 7245

Type Four wheel driven, unit construction

Serial No. 510

**Engine** 

Make Zbrojovka Model 7201

Type 4-stroke, direct injection, diesel engine, water cooled

Serial No. 073 Cylinder Number 4

Disposition Vertical, in-line
Bore/Stroke 102/110 mm
Capacity 3.595 dm³
Compression ratio 17:1
Arrangement of valves
Cylinder liners Wet, replaceable

Fuel system

Type of fuel feed Mechanical fuel feed pump, CD1A Motorpal (Piston type)

Make, type and model of

fuel filters Autobrzdy, 03-9800.00, full flow replaceable paper element

filter 70 dm<sup>3</sup>

Fuel tank capacity
Make, type and model of

Make, type and model of injection pump

Manufacturer's production

setting

Motorpal, PP4M8K 1e 3113, in-line type Fuel delivery 11.2-11.8 cm<sup>3</sup> for 200 injections at 1100 rev/min

pump speed (bench test figures), injection timing 22.5° + 1° before T.D.C.

Make, type and model of

injectors

Motorpal, multihole injection nozzles (4 holes) DOP 160S 430

in nozzle holders VA 78 S 453 a 2683

Manufaturer's production

setting

16.5 + 0.8 MPa

Governor

Make Motorpal

Type Mechanical, incorporated in fuel injection pump, RV 3 M

300/1100-2534

Range of engine speed 600 – 2460 rev/min
Rated engine speed 2200 rev/min

Air cleaner

Make Sandrik

Type and model of cleaner

Oil capacity

Oil type 9420.11. Pre-cleaner, PC 250 (centrifugal)

 $1.3 \, \mathrm{dm}^3$ 

Exhaust silencer

Expansion chamber type

Dimensions: 93×160×582×1503 mm

Vertical outside bonnet on left hand-side, debouch 2.75 m

above ground

**Lubrication system** 

Type Forced feed from gear type pump with metal strainer in oil

sump

Make and type of filter

Full flow, centrifugal, RHP 2/A, Motor C. Budejovice, service

period 200 h

Oil capacity Changing period 12 m<sup>3</sup> 200 h

Recommended oil

Engine oil according to API SC/CB, SAE 20W/30

Cooling system

Type

Water cooled assisted by centrifugal pump, 380 mm dia 6-blade

belt driven fan

Coolant capacity

Means for

 $10.5 \, dm^3$ 

temperature control

Pressure

Thermostat Over pressure 30-40 kPa

Starting system

Make

Electrical Pal Magneton

Type

443 115 144 722, electrical, solenoid engaged starter motor,

2.9 kW - 12 V

Cold starting aids

Device for increasing fuel delivery incorporated in fuel in-

jection pump

**Electrical system** 

Voltage

12 V

Generator

Make Pal Magneton

Type

Alternator, 443 113 516 184, 14V/55A

Battery

Make Akuma

Type 12 D 2.1 Lead-acid, 1 battery 12 V

Capacity 150 Ah at 20 h rating

Transmission

Clutch

Make **Zbro**jovka

Type and diameter of disc Double plate dry clutch, 280 mm dia, with organic friction

Method of operation

Foot pedal for gearbox, hand lever for p.t.o.

Gearbox

Make Zetor

Type Sliding gear. Gearbox with 5 forward speeds and 1 reverse.

Reduction gearbox with 2 ranges

No. of speeds Totally 10 forward and 2 reverse

Rear axle and final drive

Make Zetor

Type Crown wheel and pinion, differential and spur gear final

drive. Pedal operated, self disengaging differential lock

Oil capacity

Gearbox, rear axle and

final drive
Filter

27 + 3.8 dm<sup>3</sup> (Includes volume necessary for power lift) Full-flow oil filter with replaceable paper element, changing

period 600 hours. Suction filter with magnetic element, cleaning period 200 hours

Change period

Recommended oil

1200 hours According to API GL-4, SAE 80W

Front axle and final drive

Make

Zetor

Type

Crown wheel and pinion, differential and planetary final drives in the front wheels. Driven from gear box by a universal joint shaft. Engaging and disengaging by handoperated me-

chanical clutch

Oil capacity Recommended oil 4 dm<sup>3</sup>, changing period: 2400 hours According to API GL-4, SAE 80W

Gear	Number of engine revolutions for one revolution of driving wheels		l travelling rated engine
		km/h	m/s
Forward			
1L	344.8	1.88	0.52
2L	264.9	2.44	0.68
3L	190.1	3.40	0.95
4L	133.5	4.84	1.35
5L	97.3	6.65	1.85
1H	81.4	7.95	2.21
2H	62.5	10.34	2.88
3H	44.9	14.41	4.00
4H	31.5	20.52	5.70
5H	23.0	28.15	7.81
Reverse			
1	255.5	2.53	0.70
2	61.2	10.57	2.94

<sup>\*</sup> With tyre rolling radius index of 780 mm (Tyres 16.9/14-34)

Power take-off

Make Zetor

Location At rear of tractor

Type of drive Independent p.t.o. Engaged by hand lever operated disc

clutch 2 shiftable speeds 540/1000 rev/min

Dimensions According to ISO 500

No. of splines 6 (dia. 34.9 mm)

Height above ground 750 mm in tractor's median plane, distance to the rear axle

centre 268 mm

### Proportional engine speed p.t.o.

540 rev/min

p.t.o. speed 596 rev/min at rated engine speed. Standard p.t.o. speed, 540

rev/min, at 1994 rev/min engine speed.

Direction of rotation: clockwise, viewed facing driving end.

1000 rev/min

1073 rev/min at rated engine speed. Standard p.t.o. speed, p.t.o. speed

1000 rev/min, at 2050 rev/min.

Direction of rotation: clockwise, viewed facing driving end.

## Proportional ground speed p.t.o.

Reduction gear in

high position Distance travelled for one revolution of the p.t.o. 349 mm.

Number of p.t.o. revolutions for one revolution of driving

wheel 14.04.

Direction of rotation: clockwise, viewed facing driving end in

forward gear.

Reduction gear in

Distance travelled for one revolution of the p.t.o. 82 mm. low position

Number of p.t.o. revolutions for one revolution of driving

wheel 59,46.

Direction of rotation: clockwise, viewed facing driving end in

forward gear.

**Belt pulley** 

(Not fitted for test)

Power lift

Make

Zetor

Type Single acting. Gear type pump with 2 shiftable speeds.

Independent pump drive from p.t.o. intermediate shaft.

Working pressure 16.0 + 2 MPa.

Oil supplied from rear axle housing to ram cylinder.

Oil capacity: 27 dm<sup>3</sup>

Oil capacity available for external use 10 dm<sup>3</sup> (stationary

and moving).

Category 2 implement linkage according to ISO 730 with top

link sensing. Draught, mixed and position control.

Four operating levers.

External tappings: 2 single acting or 1 double acting.

Length of lower links: 856 mm

top link: 690-770 mm

lift rods: 455 - 585 mm

Vertical adjustment: 169-490 mm above ground in lowest

position.

Drawbar

**Dimensions** 

Height above ground 455/540 mm.

Vertical distance relative to p.t.o. 210/295 mm below.

Horizontal distance from rear axle 680 mm.

Position relative to p.t.o. 410 mm.

Lateral and longitudinal adjustment: none

Coupling pin diameter 30 mm.

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Hitch

Height above ground 540 mm, vertical distance relative to p.t.o. 210 mm below, horizontal distance from rear axle 443 mm, position relative to p.t.o. 180 mm. Permissible vertical

load 15 kN.

Hitch

(Continental

type)

Height above ground 775-975 mm, adjustable in 5 steps, vertical distance relative to p.t.o. 25-225 mm above, hitchhole diameter 35 mm, horizontal distance from rear axle

618 mm, position relative to p.t.o. 355 mm.

Permissible vertical load 10.0 kN.

Steering

Make Type

NSK - Japan; Technometra - Radotin.

Mechanical power assisted, hydraulic pump directly driven by

the engine with own oil circuit.

Oil capacity 4.4 dm<sup>3</sup>.

Recommended oil ISO VG 22.

Change period

Filter

1200 hours

Full-flow oil filter with replaceable paper element.

**Brakes** 

Make Type

Zetor

Hydraulically actuated, dry drum brakes mounted on final

gear shafts.

Independent or combined pedal operated.

Parking brake with hand lever operated band brake on differ-

ential pinion shaft.

Wheels

Steering and driving wheels

Driving wheels

Two at front.

Type: Pneumatic, multirib 12.4/11-24/6-ply rating, cross-ply

Maximum permissible mass on each tyre 1200 kg at 170 kPa

pressure.

Track width 1610 and 1890 mm changed by off-set lugs on rims.

Two at rear. Type: Pneumatic, multirib 16.9/14-34/8-ply rating, cross-ply

Maximum permissible mass on each tyre 2380 kg at 170 kPa pressure.

Track width 1500, 1575, 1650, 1725, 1800 mm changed

by reversing wheel centres and off-set lugs on rims.

Wheelbase

2222 mm

Seat

Make

Zetor, model 5911, 5400

Type

Mechanical suspension, adjustable to driver's mass. Damping

by hydraulic shock absorber.

Range of adjustment 150 mm forward and backwards and 60

mm up and down.

Protective cab

Make Type Zetor BK 6011

Number of grease points
Whole tractor

24

# Overall dimensions (Tyre size front 12.4/11-24, rear 16.9/14-34)

	Length, m	Width1, m	Height <sup>2</sup> , m
With ballast	4.01	2.23	2.75
Without ballast	3.76	2.23	2.75

Minimum ground clearance 395 mm to underside of front.

<sup>2</sup> Measured to top of exhaust pipe.

### Lighting

The lighting system is in accordance with the national Czechoslovak regulations for road traffic and the national Swedish regulations (FK 20 paragraph).

	Height above ground of centre	Size	Distance from outside edge of tractor to centre <sup>2</sup>
	mm	mm	mm
Head lights	1170	130	865
Side lights	1545	40×551	315
Rearlights	1540	$70 \times 105^{1}$	260
Reflectors	1100	80	125

Rectangular

# **Conditions During test**

Masses	Tractor without driver but with tanks full	
Without ballast	Part of mass on front wheels	1540 kg
	Part of mass on rear wheels	2090 kg
	Total mass	3630 kg
With ballast	Part of mass on front wheels	1930 kg
	Part of mass on rear wheels	2890 kg
	Total mass	4820 kg
Ballast	Front: Frame and front weights	total 390 kg
	Rear: Weights	total 300 kg
	Liquid	total 500 kg
		_

## Track setting

Front: 1610 mm Rear: 1500 mm

# Fuel and lubricants used in tests

Diesel fuel to Swedish Standard SS 155432. Density at 15°C 0.840 g/cm³. Viscosity at 20°C 3.2 mm²/s. Cetane number 49. Engine oil. According to API SC/CB, OA-M5AD (SAE 20W/30). Transmission oil. According to API GL-4, OA-PP80 (SAE 80W)

<sup>&</sup>lt;sup>1</sup> With track width of 1800 mm (rear wheels)

With track width of 1500 mm Rear wheels 1610 mm Front wheels

# **Compulsory tests**

# 1. Main power take-off performance

Date and location of tests: 1983-09-28, Ultuna, Uppsala, Sweden

Type of dynamometer: Eddy current, make Zöllner

Power	Speed re	v/min	Fuel co	nsumption			Specific	
kW	Engine	p.t.o.	1/h	kg/h	g/MJ	kg/kWh	MJ/l	kWh/l
Maximu								
At 2-hou		<b>50</b> 6	40.50	44 64	<i>70.0</i>	0.072	11 40	2.10
43.7	2200	596	13.70	11.51	73.2	0.263	11.48	3.19
	engine spe		10.70	44 54	72.0	0.063	11 40	2.10
13.7	2200	596	13.70	11.51	73.2	0.263	11.48	3.19
	-			n the position	n correspor	iding to max	ımum pov	ver
(1) 85% · 38.0	of the torqu 2252	ue at max. 610	12.32	10.35	75.6	0,272	11.10	3.08
		010	12.52	10.55	75.0	01212	11110	5100
(2) Unlo 0.3	2385	646	4.20	3.53				
	of the torq			5.55				
3) 30 % 19.7	2329	631	7.93	6.66	94.0	0.338	8.94	2.48
	mum powe		1120	0,00	,	3.220	<b></b>	2.70
14.3	2200	596	13.81	11.60	72.8	0.262	11.54	3.20
	of the load							
10.0	2359	639	5.86	4.92	137.1	0.493	6.13	1.70
	of the load	defined in						
29.0	2292	621	9.80	8.23	78.8	0.284	10.66	2.96
arving	loads, the s	zovernor ha	and lever i	n the positio	n correspo	nding to star	idard p.t.e	o. speed at fu
oad (540	rev/min)			-	•	J	•	•
	of the torqu		_			0.056	44.00	
36.2	2038	552	11.02	9.25	71.1	0.256	11.82	3.28
(2) Unlo		504	2.45	2.00				
0.2	2193	594	3.45	2.90				
•	of the torque 2126			6.00	00.2	0.210	0.52	2.64
18.9		576	7.14	6.00	88.3	0.318	9.52	2.64
(4) Maxı \$1.4	mum powe 1993	т 540	12.38	10.40	69.8	0.251	12.04	3.34
				10.40	07.6	0.231	12.04	3.34
3) 23% 9.6	of the torque 2167	ue deimed 587	in (1) 5.24	4.40	126.6	0.456	6.33	1.84
		_		4.40	120.0	0.450	0.33	1.04
27.8	of the torque 2082	564	9.05	7.60	76.0	0.274	11.04	3.07
				7.00	70.0	0.277	11.04	3.07
	d specific 272)/94.0(			/b\				
	56)/88.3((							
	maximun			,	238	5 rev/min		
	at maximu				192			
	ım torque					Nm at 1600	rev/min	engine spee
Mean at	mospheri	c conditio	ns:	Temperatu	ire			17°C
				Pressure	**.		101	.2 kPa
\ <b>#</b>				Rel. humic	lity			50%
viaximi	ım tempei	ratures:		Coolant				79°C 98°C
				Engine oil Fuel				20°C
				Engine air	intake			20°C 21°C
				THEIR all	munc			21 0

# 2. Drawbar performance

Date of tests: 1984-06-19/21/25/26

Type of track: Tarmac

Height of drawbar above ground unballasted 430 mm

ballasted

420 mm

Tyre inflation pressure:

unballasted ballasted front 100 kPa

rear 80 kPa

front 120 kPa rear 110 kPa

# Results see Table 1.

Engine oil consumption during ten hours duration of test (iii and iv) was 33 g/h. Test (iv) was carried out with additional ballast. Power, speed, slip and fuel consumption do not correspond to test (ii) gear 2 L.

Table 1. Drawbar performance

Gear	Power		Speed	!	Engine speed	peed	Wheel	Spec. fuel		Spec. energy	эгду	Temperature	rature		
		Dar					slip	consumption	tion			င္ပိ	Fuel	Engine	Transm.
	ΥM	md 7	s/œ	km/h	Tow/e	min/min	70	TV0°	Leafter M.Th.	MIG	LYATE	lant S	ζ	इ.इ.५	oi S
	W A		S ATT	MIII/III	TCAVS	TEN/IIIII	0/	MAI/A	Kg/K w n	I/CIAI	K W D/1	ر	ر	ٔ ر	۲
i) Maxi	mum pow	er (unballa	i) Maximum power (unballasted tractor)	T)											
2F	19.5	33.0	0.59		38.5	2309	15.4	100 R	0 305	7.65	2 12	70	33	9	60
3F	26.4	33.0	0.80	2.88	37.7	2260	15.6	100.0	0.360	04.0	2.33	` <del>S</del>	3 6	7 6	3 6
4L	34.8	30.0	1.16	4.18	36.7	2200	11.4	91.0	0.328	9.23	2.56	8 8	31	26	55
SI.	36.1	21.5	1.68	6.05	36.7	2200	6.1	87.7	0.316	9.58	2.66	250	53	82	20
1H	38.6	19.0	2.03	7.31	36.7	2200	5.0	82.8	0.298	10.14	2.81	8	33	06	64
2H	38.2	14.3	2.67	9.61	36.7	2200	4.3	83.7	0.301	10.00	2.79	81	34	06	92
ii) Max	imum pov	ver (ballast	ii) Maximum power (ballasted tractor)												
11	18.1	38.8	0.47	1.68	38.6	2318	15.1	109.7	0.395	7.66	2.13	79	28	86	72
2L	23.7	41.1	0.58	2.08	38.0	2283	15.0	103.7	0.373	8.10	2.25	2	27	87	51
$3\Gamma$	32.9	42.0	0.78	2.82	37.0	2223	15.0	95.8	0.345	8.77	2.44	81	35	92	99
4 <u>L</u>	35.8	30.0	1.19	4.30	36.7	2200	8.1	89.1	0.321	9.43	2.62	8	53	68	56
5L	36.0	21.4	1.68	90'9	36.7	2200	5.0	88.5	0.318	9.50	2.64	81	31	06	58
HI	38.5	18.9	2.04	7.34	36.7	2200	4.1	82.5	0.297	10.18	2.83	08	32	06	09
2H	38.1	14.3	2.67	9.60	36.7	2200	3.6	83.3	0.300	10.08	2.80	08	32	06	61
iii) Five	bour test	at 75% pu	iii) Five hour test at 75% pull at maxim	um power											
111	30.2	14.2	2.13	7.67	38.8	2268	3.2	86.1	0.310	9.76	2.71	80	4	93	81
iv) Five	hour test	соттеѕроп	iv) Five hour test corresponding to 15%	6 wheelslip											
2Ľ	25.9	42.0	0.62	2.22	38.0	2279	9.4		ß	) I	Û	08	I	86	96
ĺ															

Atmost	heric	conditions
7 FOTO OF		

Aunospheric conditions	Temperature	Relative humidity	Pressure
Maximum power	°C	%	kPa
unballasted tractor ballasted tractor	15-22 17-21	65 60	101.5 100.4
Five hour tests at 75% pull at max power at max. pull	14-18 14-20	70 68	100.0 100.6

# 3. Turning space and turning circle

Details of wheel equipment: As in specification without ballast

Track of wheels:

Front 1610 mm 1500 mm Rear

	With bra	ıkes	Without b	Without brakes	
	Left- hand	Right- hand	Left- hand	Right- hand	
	m	m	m	m	
Radius of turning	4.07	4.03	5.75	5.62	
space*	(4.61)	(4.53)	(5.31)	(5.21)	
Radius of turning	3.84	3.80	5.62	5.39	
circle*	(4.38)	(4.30)	(5.08)	(4.98)	

<sup>\*</sup> Figures in brackets indicate that the front-wheel drive is disengaged

# 4. Location of centre of gravity

Height above ground	934 mm	
Distance forward from the vertical plane containing the axis at rear wheels	923 mm	
Distance from the median plane	12 mm (to the left)	

# 5. Braking

Date of tests: 1984-06-19/29

Tractor masses during brake tests:

Front: 2000 kg Rear: 3600 kg Total: 5600 kg

# Type 0 (ordinary cold service braking device performance) test

Speed before application of brakes:

ballasted tractor 28.6 km/h, unballasted tractor 28.9 km/h

Ballasted	Braking device control force, Mean deceleration,	N 770* m/s <sup>2</sup> 3.55	700 3.50	625 3.00	510 2.50	430 2.00	330 1.50
Unballasted	Braking device control force, Mean deceleration,	N 635* m/s <sup>2</sup> 3.46	540 3.60	460 3.00	400 2.50	330 2.00	270 1.50

<sup>\*</sup> Locked

# Type I (fade) test

Braking device							
control force,	N	800°	750	575	460	340	
Mean deceleration	m/s <sup>2</sup>	3.34	3.00	2.50	2.00	1.50	

<sup>\*</sup> not locked

Brakes were heated by:

Towing

Comments on deviation

and vibration:

None

# Parking braking device test

		18 per cen	t slope	12 per cen trailer of 3	t slope with 000 kg
		Up	Down	Up	Down
Braking device control force	N	420	360	420	360

# 6. Measurement of external noise level

Date of test: 1984-08-13

Type of sound level meter: Brüel & Kjær 2204

Type of track: Tarmac

#### Result of tests:

Gear 5 High

Travelling speed before acceleration: 18.9 km/h

Sound level: 89 dB(A)

#### 7. Noise measurement at the driver's ear

Date and location of tests: 1983-04-17, Alnarp, Sweden

Type of sound level meter: Brüel & Kjær 2204

Type of track: Tarmac

Cab fitted: Yes

#### Result of tests

Gear	Drawbar pull at which the tractor develops the maximum sound level	Measur travellir speed		Sound level	
	kN	m/s	km/h	dB(A)	N
1H*	18.9	2.02	7.3	84	
3H	9.7	3.75	13.5	85	83
4H	6.8	5.22	18.8	85	81
1H*	light load	2.30	8.3	81	
Top gear	light load	8.00	28.8	82	77.5

<sup>\*</sup> Gear corresponding to the nominal travelling speed nearest to 2.08 m/s (7.5 km/h)

# 8. Power lift and hydarulic pump performance

Date of tests: 1983-11-23, 1984-11-28

# Hydraulic fluid

Make and type: The same as transmission Viscosity: Min. 7.5 mm<sup>2</sup>/s (cSt) at 100°C

Voscosity index: 90

Type of linkage lock for transport: Hydraulic

#### Power lift

	Height above ground in down position	Vertical movement	Maximum force exerted through full	Corre- sponding pressure of hydrau- lic fluid	Moment about rear axle	Tilt angle of mast
	mm	mm	range kN	MPa	kNm	degrees
At the h	itch					
points	208	650	23.13	14.4	21.2	
On the						
frame	210	728	14.3	14.4	21.9	20*

Temperatur of hydraulic fluid at start of test 44°C

# Hydraulic pump performance

Tapping point

Opening pressure of the relief valve Sustained pressure with relief valve open Pump delivery rate at rated engine speed: at minimum pressure

Hydraulic power at:

90 per cent of relief valve setting corresponding delivery rate

pressure

Maximum hydraulic power: corresponding delivery rate

pressure

Temperature of hydraulic fluid

Double acting external tapping 14.5/12.5\* MPa 15.9/15.7\* MPa

0.58/0.98\*1/s (35.5/59.0\*1/min)

8.1/8.5\* kW 0.56/0.60\* l/s (33.9/36.0\* l/min) 14.3/14.1\* MPa 8.3/11.6\* kW 0.54/0.93\* l/s (32.1/55.6\* l/min) 14.4/12.5\* MPa 60-65°C

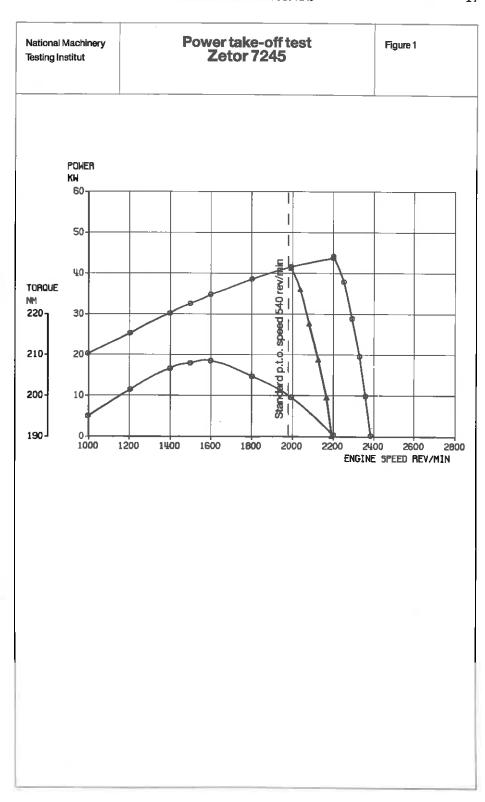
<sup>\*</sup> Tilt angle of mast from vertical position to uppermost position 10°

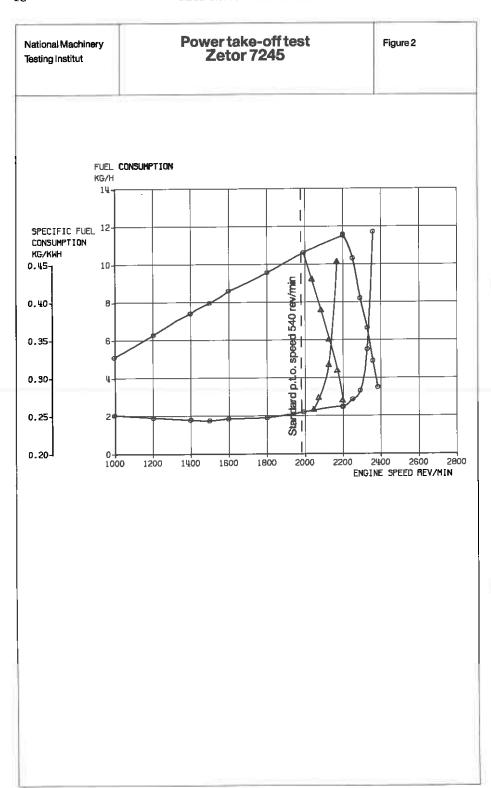
<sup>\*</sup> Hydraulic pump with 2 shiftable speeds.

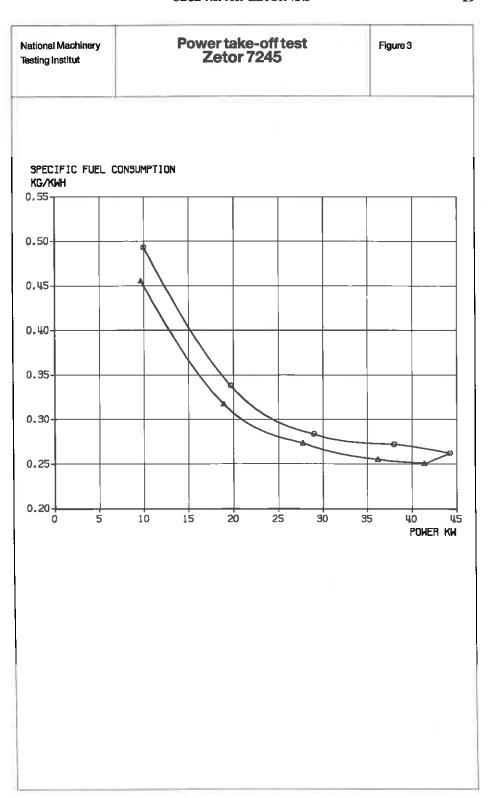
Table 2. Linkage geometry when connected to the standard frame

Projected length in side view		
Lower links	856 mm	
Lift arms	320 mm	
Lift rods	543 mm	
Top link	678 mm	
Distance of lift rod connection point		
from pivot point of lower link	· 400 mm	
The following dimensions are given relative to wheel centre line, situated 700 mm above the g		
wheel centre line, situated 700 mm above the g		138 mm below
wheel centre line, situated 700 mm above the g	ground level	138 mm below 229 mm above
wheel centre line, situated 700 mm above the g  Lower link pivot point  Top link pivot point	ground level 83 mm behind	
wheel centre line, situated 700 mm above the g	ground level 83 mm behind 288 mm behind	229 mm above
wheel centre line, situated 700 mm above the g  Lower link pivot point  Top link pivot point  Lift arm pivot point	ground level 83 mm behind 288 mm behind	229 mm above
wheel centre line, situated 700 mm above the g Lower link pivot point Top link pivot point Lift arm pivot point Maximuim and minimum height of	83 mm behind 288 mm behind 30 mm behind	229 mm above 363 mm above

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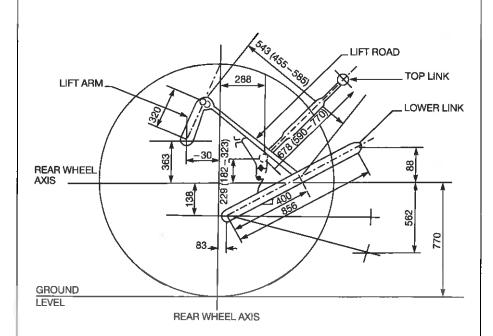


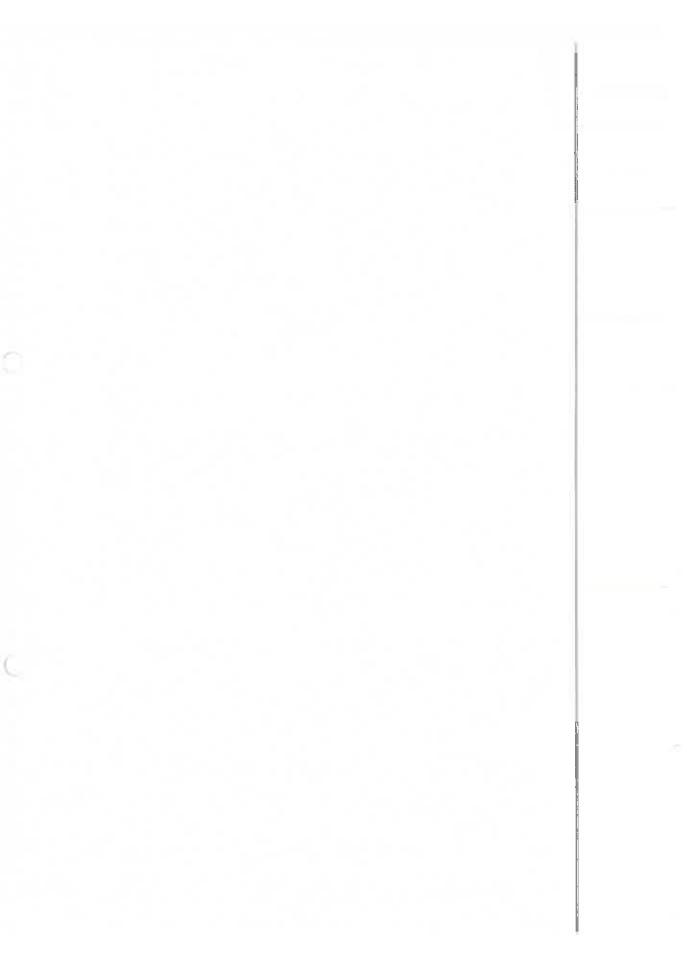


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# LINKAGE GEOMETRY – ZETOR 7245 When connected to the standard frame

Figure 4





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