

NATIONAL MACHINERY TESTING INSTITUE

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(Central Sweden) (South Sweden) (North Sweden)

TEST BULLETIN: OECD No. 900

Date of approval 1984-09-05

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

AGRICULTURAL TRACTOR ZETOR 7211

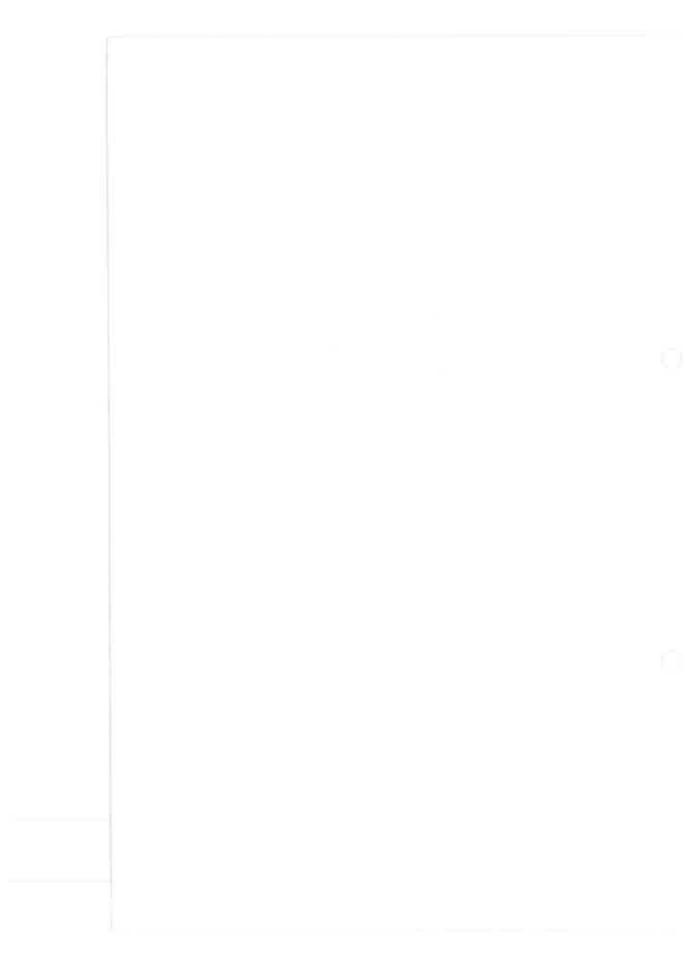
Manufactured by: Agrozet-Zetor, Brno, Czechoslovakia

Test No. 6563

Test bulletin: OECD No. 900 Agricultural tractor Zetor 7211



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. 900: ZETOR 7211

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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 7211

Type Rear wheel driven, unit construction

Serial No.

Engine

Make Zbrojovka Model 7201

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

Serial No. 075 Cylinder Number

Disposition Vertical, in-line Bore/Stroke 102/110 mm 3.595 dm3 Capacity Compression ratio 17:1 Arrangement of valves Overhead 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 $70 \, dm^3$

Fuel tank capacity Make, type and model of

injection pump

Manufacturer's production

setting

Motorpal, PP4M8K 1e 3113, in-line type

Fuel delivery 11.2-11.8 cm³ 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

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

300/1100-2534

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

Air cleaner

Make Sandrik

Type and model of cleaner Oil type 9420.11. Pre-cleaner, PC 250 (centrifugal)

Oil capacity

 $1.3 \, dm^3$

Exhaust silencer Expansion chamber type

Dimensions: $93 \times 160 \times 582 \times 1503$ mm

Vertical outside bonnet on left hand-side, debouch 2.69 m

above ground

Lubrication system

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

Make and type of filter Full flow, centrifugal, RHP 2/A, Motor C. Budejovice, service

period 200 h

 12 m^3 Oil capacity Changing period 200 h

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

Cooling system

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

belt driven fan

Coolant capacity

 $10.5 \, dm^3$

Means for

Pressure

Thermostat

temperature control

Over pressure 30-40 kPa

Starting system

Electrical Make Pal Magneton

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

2.9 kW-12 V

Device for increasing fuel delivery incorporated in fuel in-Cold starting aids

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

150 Ah at 20 h rating Capacity

Transmission

Clutch

Zbrojovka Make

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

material

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

 $25 + 3.8 \,\mathrm{dm^3}$ (Includes volume necessary for power lift) Filter Full-flow oil filter with replaceable paper element, changing

period 600 hours. Suction filter with magnetic element, clean-

ing period 200 hours 1200 hours

Change period

Recommended oil

According to API GL-4, SAE 80W

Front axle and final drive

Make and type

Zetor not driven

Gear	Number of engine revolutions for one revolution of driving wheels	speed at rated en speed*	
		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
1 H	81.4	7.95	2.21
2H	62.5	10.35	2.88
3H	44.9	14.41	4.00
4H	31.5	20.54	5.70
5H	23.0	28.13	7.81
Reverse			
L	255.5	2.53	0.70
H	61.2	10.57	2.94

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

6 (dia. 34.9 mm) No. of splines

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

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

1000 rev/min, at 2050 rev/min engine speed.

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.

Reduction gear in

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

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

wheel 59.46.

Direction of rotation: clockwise, viewed facing driving end.

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 16.0-18.0 MPa.

Oil supplied from rear axle housing to ram cylinder.

Oil capacity: 25 dm3

Oil capacity available for external use 10 dm³ (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.

Dimensions

Length of lower links: 856 mm

" top link: 590-770 mm _"_

lift rods: $455 - 585 \, \text{mm}$

Vertical adjustment: 169-490 mm above ground in lowest

position.

Drawbar

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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Height above ground 540 mm, vertical distance relative to Hitch

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

type)

(Continental 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

NSK – Japan; Technometra – Radotin. Make

Mechanical power assisted, hydraulic pump directly driven by Type

the engine with own oil circuit.

Oil capacity 4.4 dm³.

Recommended oil ISO VG 22

Change period

1200 hours

Full-flow oil filter with replaceable paper element. Filter

Brakes

Zetor Make

Hydraulically actuated, dry drum brakes mounted on final Type

gear shafts.

Independent or combined pedal operated.

Parking brake with hand lever operated band brake on differ-

ential pinion shaft.

Wheels

Steering wheels Two at front.

Type: Pneumatic, multirib 7.50-20/6-ply rating, cross-ply

tyres.

Maximum permissible mass on each tyre 850 kg at 250 kPa

pressure.

Track width 1430, 1655, 1805 mm by changing length of front

axle.

Driving wheels

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 1425, 1500, 1575, 1650, 1725, 1800 mm changed

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

Wheelbase 2257 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

22

Overall dimensions (Tyre size front 7.50-20, rear 16.9/14-34)

	Length, m	Width1, m	Height ² , m
With ballast	3.76	2.23	2.69
Without ballast	3.76	2.23	2.69

Minimum ground clearance 415 mm to underside of drawbar frame.

² 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 ²
	mm	mm	mm
Head lights Side lights Rear lights Reflectors	1100 1 505 1560 1100	130 40×55 ¹ 70×105 ¹ 80	805 260 225 85

¹ Rectangular

Conditions During test

Masses	Tractor without driver but with tanks full	
Without ballast	Part of mass on front wheels	1090 kg
	Part of mass on rear wheels	2100 kg
	Total mass	3190 kg
With ballast	Part of mass on front wheels	1250 kg
	Part of mass on rear wheels	2870 kg
	Total mass	4120 kg
Ballast	Front: Frame and front weights	total 160 kg
	Rear: Weights	total 270 kg
	Liquid	total 500 kg
=		

Track setting

Front: 1430 mm Rear: 1425 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)

¹ With track width of 1800 mm (front wheels)

With track width of 1425 mm Rear wheels 1430 mm Front wheels

Compulsory tests

1. Main power take-off performance

Date and location of tests: 1983-09-23, Ultuna, Uppsala, Sweden Type of dynamometer: Eddy current, make Zöllner

	Power	Speed re	v/min	Fuel con	sumption			Specific	energy
	kW	Engine	p.t.o.	l/h	kg/h	g/MJ	kg/kWh	MJ/l	kWh/l
	Maximum								
	At 2-hour 43.9	2200	596	13.74	11.54	73.0	0.263	11.48	3.19
		ngine spec		22,					
	43.9	2200	596	13.74	11.54	73.0	0.263	11.48	3.19
	Varying lo	ads, the g	overnor ha	nd lever in	the position	п соггезроп	ding to max	imum pov	ver
2	(1) 85% o	f the torqu	ie at max.	power, rate	d engine sp	eed	_	-	
	38.4	2266	614	12.36	10.38	75.0	0.270	11.20	3.11
	(2) Unloa	ded							
	0.3	2384	646	4.20	3.53				
4	(3) 50% o	f the torqu	ie defined	in (1)					
	19.8	2336	633	7.90	6.64	93.1	0.335	9.03	2.51
1	(4) Maxin	um powe	•						
	43.8	2200	596	13.63	11.45	72.6	0.261	11.57	3.21
5	(5) 25% o	f the load	defined in	(1)					
	10.0	2362	640	5.89	4.95	136.8	0.492	6.14	1.71
3	(6) 75% o			(1)					
	29.3	2300	623	9.99	8.39	79.6	0.286	10.56	2.93
	Varying ko load (540		overnor ha	and lever in	the positio	n correspo	nding to star	dard p.t.c	o. speed at full
2	(1) 85% o	f the torqu	ne at maxin	num power	=				
	35.9	2041	553	10.99	9.23	71.4	0.257	11.76	3.27
	(2) Unloa	ded							
	0.2	2215	600	3.61	3.03				
4	(3) 50% o	f the torqu	ie defined	in (1)					
,	18.7	2130	577	7.12	5.98	88.7	0.319	9.47	2.63
1	(4) Maxin	•							
	41.1	1993	540	12.44	10.45	70.6	0.254	11.90	3.30
5	(5) 25% o	-							
	9.5	2163	586	5.26	4.42	129.1	0.465	6.51	1.81
3			e defined						
	27.6	2089	566	9.05	7.60	76.6	0.276	10.97	3.05

Standard specific fuel consumption: 75.0(0.270)/93.1(0.335) g/MJ(kg/kWh) 71.4(0.257)/88.7(0.319) g/MJ(kg/kWh) No load maximum engine speed Torque at maximum power Maximum torque

2384 rev/min 191 Nm 212 Nm at 1384 rev/min engine speed Mean atmospheric conditions: Temperature 19°C Pressure 101.6 kPa Rel. humidity 50% Maximum temperatures: Coolant 79°C Engine oil 98°C Fuel 20°C Engine air intake 24°C

2. Drawbar performance

Date of tests: 1984-12-09-14

Type of track: Drum dynamometer with concrete surface

Height of drawbar above ground unballasted 530 mm ballasted 510 mm

Tyre inflation pressure:

unballasted 80 kPa ballasted 100 kPa

Results see Table 1.

Engine oil consumption during ten hours duration of test (iii and iv) was 32 g/h. Test (iv) was carried out with additional ballast. Power, speed, slip and fuel consumption do not correspond to test (ii) gear 3 L.

Table 1. Drawbar performance

Gear	Power	Draw-	Speed		Engine speed	peed	Wheel	Spec. fuel		Spec. energy	ırgy	Temperature	rature		
		bar 					dis	consumb	tion			ပ လိ	Fuel	Engine	Transm.
	kW	Pol K	s/m	km/h	rev/s	rev/min	%	g/MJ	kg/kWh	MJ/I	kWh/l	lant °C	ပွ	ر آڪڻ	Çgi
i) Maxi	wod unu	er (unball	i) Maximum power (unballasted tractor)	Ē											
3 <u>I</u> .	19.8	24.4	0.81		38.6	2318	15.5	114.5	0.414	7.30	2.03	51	15	43	27
4	27.9	24.7	1.13	4.07	37.8	2268	15.2	98.5	0.355	8,53	2.37	2	90	59	32
SL	36.7	24.3	1.51	5.44	36.7	2200	14.8	87.8	0.316	9.56	2.66	8	100	8	99
11	37.4	19.8	1.89	6.80	36.7	2200	10.8	85.7	0.309	9.80	2.72	8	18	ᆶ	63
2H	38.9	15.3	2.54	9.14	36.7	2200	08.1	82.6	0.297	10.18	2.83	80	18	26	72
3H	39.3	10.8	3.64	13.10	36.7	2200	5.4	82.0	0.295	10.25	2.85	œ	18	90	29
4H	38.6	7.3	5.29	19.04	36.7	2200	3.8	83.4	0.300	10.07	2.80	<u>@</u>	18	91	74
ii) Max	od mumi	ver (ballas	ii) Maximum power (ballasted tractor)												
11	13.8	30.7	0.45	1.62	39.1	2345	15.0	122.6	0.442	6.85	1.90	6/	17	98	89
2Ľ	18.2	31.3	0.58	2.09	38.7	2320	15.4	108.9	0.392	7.71	2.14	79	18	8	99
3Γ	25.0	31.3	0.80	2.88	38.3	2300	15.2	98.2	0.353	8.56	2.38	8	17	81	65
4Ľ	34.3	31.3	1.10	3.96	37.2	2233	15.0	9.68	0.322	9.38	2.61	70	19	74	63
5L	38.1	24.4	1.56	5.62	36.7	2200	11.0	84.6	0.305	9.92	2.75	8	18	8	71
1H	38.8	20.3	1.91	6.88	36.7	2200	6.8	83.1	0.299	10.11	2.81	8	18	91	75
2H	39.7	15.5	2.56	9.22	36.7	2200	6.7	81.2	0.292	10.34	2.88	79	18	68	9/
3H	39.4	10.8	3.65	13.14	36.7	2200	4.5	81.4	0.293	10.32	2.87	6	17	06	77
4H	38.4	7.3	5.26	18.94	36.7	2200	2.8	83.2	0.299	10.10	2.81	79	18	26	81
iii) Fiv	hour test	tat 75% pu	iii) Five hour test at 75% pull at maximum powe	num power											
Ή	31.0	15.2	2.04	7.34	37.9	2275	5.2	84.2	0.303	86.6	2.77	79	17	68	82
iv) Five	hour test	correspon	iv) Five hour test corresponding to 15%	% wheelslip											
3Ľ	26.4	31.3	0.84	3.02	38.1	2288	12.3	}	ř	Ţ	E	79	22	93	66

Pressure

Temperature

Atmospheric conditions	
Maximum power	

°C	%	kPa
13-22	36	99.3
13-21	65	99.8

Relative

humidity

Five hour tests

unballasted tractor ballasted tractor

at 75% pull at max power 8-11 20 101.3 at max. pull 15-22 44 101.4

3. Turning space and turning circle

Details of wheel equipment: As in specification without ballast

Track of wheels:

Front 1430 mm Rear 1425 mm

	With br	akes	Without b	rakes
	Left-	Right-	Left-	Right-
	hand	hand	hand	hand
	m	m	m	m
Radius of turning space Radius of turning circle	3.54	3.47	3.99	3.97
	3.35	3.28	3.80	3.78

4. Location of centre of gravity

Height above ground 1008 mm

Distance forward from the vertical plane containing the axis at rear wheels 754 mm

Distance from

Distance from the median plane

2 mm (to the left)

5. Braking

Date of tests: 1984-03-20-04-06. Tractor masses during brake tests:

Front: 1500 kg Rear: 3600 kg Total: 5100 kg

Type 0 (ordinary cold service braking device performance) test

Speed before application of brakes:

ballasted tractor 28.9 km/h, unballasted tractor 29.4 km/h

Ballasted	Braking device control force, Mean deceleration,	N 565* m/s ² 4.23	505 3.90	470 3.50	330 2.50	270 2.00	200
Unballasted	Braking device control force, Mean deceleration,	N 580* m/s ² 3.87	360 3.62	325 3.00	265 2.50	200 2.00	150 1.50

^{*} Locked

Type I (fade) test

Braking device								
control force,	N	810*	650	540	440	335	240	
Mean deceleration	m/s^2	4.19	3.50	3.00	2.50	2.00	1.50	

^{*} One wheel locked

Brakes were heated by Comments on deviation

Comments on deviation and vibration Towing

None

Parking braking device test

		18 per cent slope 12 per cent slope with trailer of 3000 kg			
		Up	Down	Up	Down
Braking device control force	N	440	300	440	300

6. Measurement of external noise level

Date of test: 1984-03-19

Type of sound level meter: Brüel & Kjær 2204

Type of track: Tarmac

Result of tests:

Gear 5 High

Travelling speed before acceleration: 21.6 km/h

Sound level: 88 dB(A)

7. Noise measurement at the driver's ear

Date and location of tests: 1983-09-08, 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 travellii speed		Sound level	
	kN	m/s	km/h	dB(A)	N
all openings closed 1H*					
1H*	20.5	1.94	7.0	84	
5L	23.0	1.58	5.7	85	82.5
4H	8.0	5.41	19.5	85	
1H*	light load	2.36	8.5	80.5	
Top gear	light load	8.33	30.0	80	

^{*} 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 test: 1983-11-24

Hydraulic fluid

Make and type: The same as transmission Viscosity: Min. 7.5 mm²/s (cSt) at 100°C

Viscosity index: 90

Type of linkage lock for transport: Hydraulic

Power lift

	Height above ground in down position	Vertical movement	Maximum force exerted through full range	Corre- sponding pressure of hydrau- lic fluid	Moment about rear axle	Tilt angle of mast
	mm	mm	kN	MPa	kNm	degrees
At the hi	tch			-		
points	196	662	23.5	14.4	21.6	
On the trame	195	864	17.5	14.4	26.8	19*

Temperatur of hydraulic fluid at start of test 50°C

Hydraulic pump performance

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

Tapping point

Maximum hydraulic power: corresponding delivery rate

pressure

Temperature of hydraulic fluid

Double acting external tapping 16.2/14.7* MPa

0.58/0.94* l/s (34.9/56.6* l/min)

16.4/16.4* MPa

8.1/12.4* kW 0.55/0.84* l/s (32.8/50.3* l/min) 14.8/14.8* MPa 8.7/12.8* kW 0.54/0.87* l/s (32.3/52.1* l/min) 16.2/14.7* MPa 60-62°C

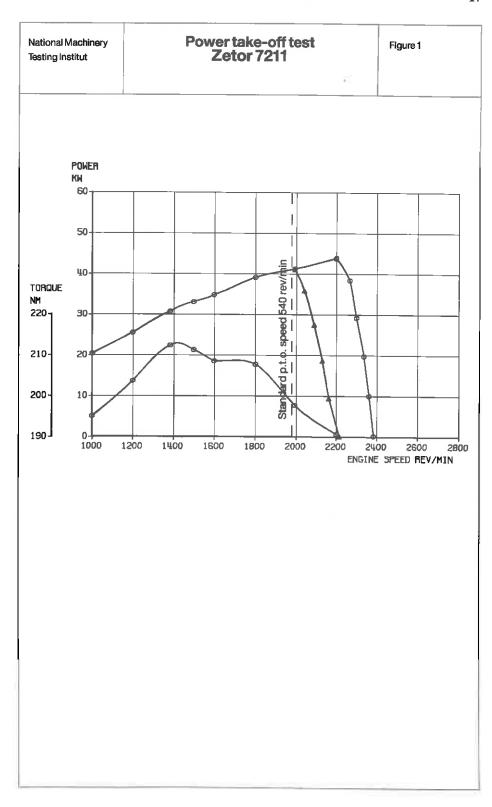
^{*} Tilt angle of mast from vertical position to uppermost position 10°

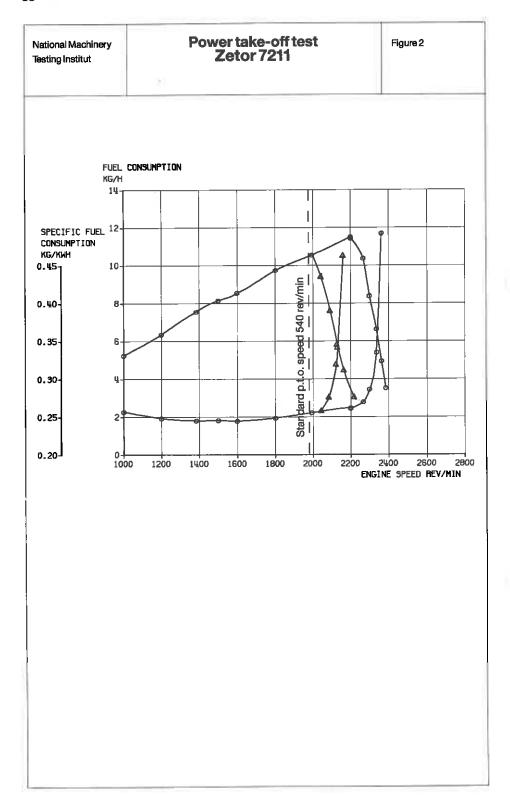
^{*} Hydraulic pump with 2 shiftable speeds.

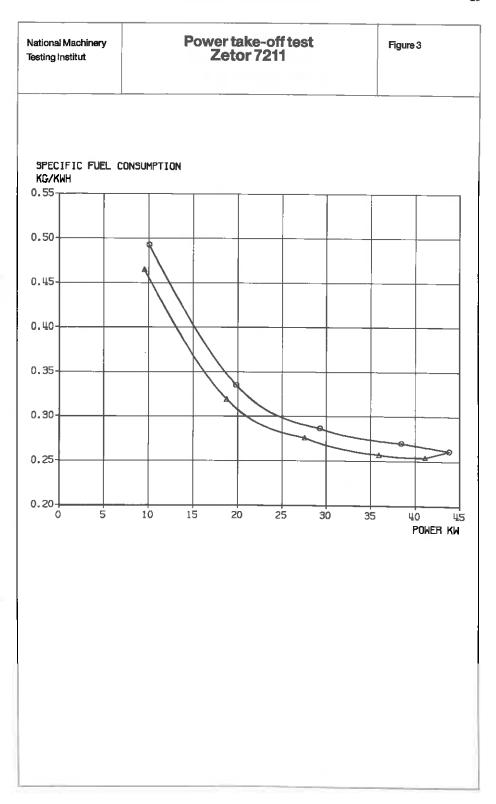
Table 2. Linkage geometry when connected to the standard frame

Projected length in side view		
Lower links	856 mm	
Lift arms	320 mm	
Lift rods	567 mm	
Top link	684 mm	
Distance of lift rod connection point		
from pivot point of lower link	400 mm	
wheel centre line, situated 770 mm above the		138 mm below
wheel centre line, situated 770 mm above the Lower link pivot point	ground level	138 mm below 229 mm above
The following dimensions are given relative to wheel centre line, situated 770 mm above the Lower link pivot point Top link pivot point Lift arm pivot point	ground level 83 mm behind	
wheel centre line, situated 770 mm above the 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 770 mm above the 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 770 mm above the 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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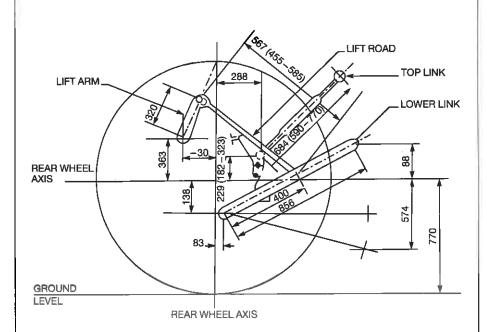


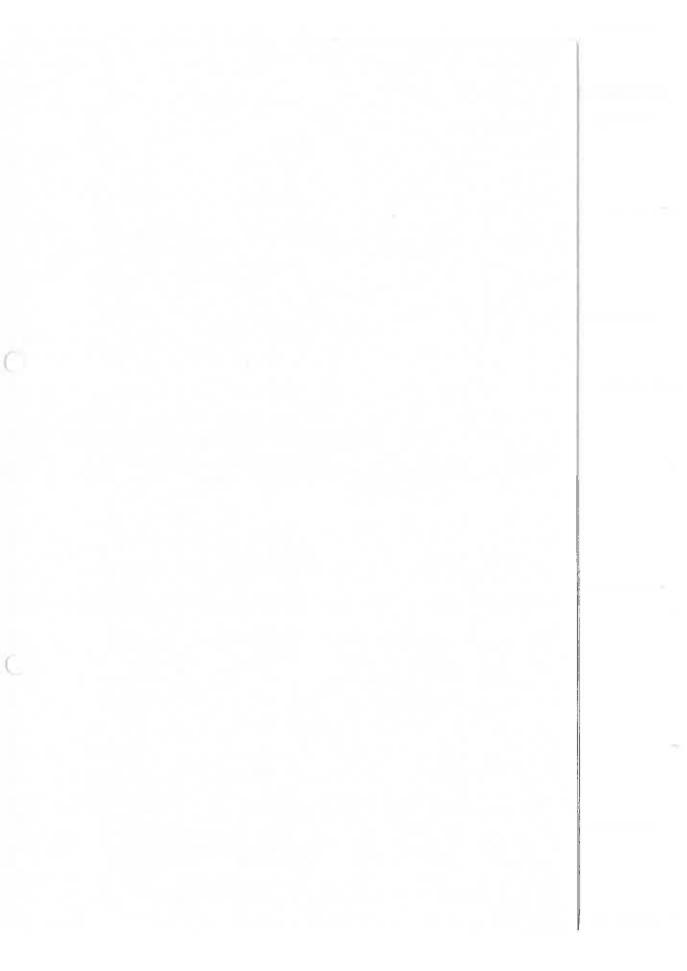


National Machinery Testing Institut

LINKAGE GEOMETRY – ZETOR 7211 When connected to the standard frame

Figure 4





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