



STÁTNÍ ZKUŠEBNA ZEMĚDĚLSKÝCH,
POTRAVINÁŘSKÝCH
A LESNICKÝCH STROJŮ

163 04 PRAHA 6, ŘEPY

Report on test in accordance with the O. E. C. D. STANDARD CODES
for the Official Testing of Agricultural Tractors

CODE II

Restricted Code

Date of approval: 24th January 1994

O.E.C.D. No. 1503/2



Agricultural Tractor
ZETOR 7340 (4WD)

Manufactured by:
ZETOR a.s.
632 00 Brno, CZ

Report No. 10960
Date of test: June-August 1993

**TABLE OF CONTENTS**

	Page No.
I. SPECIFICATION OF TRACTOR	3
II. TEST CONDITIONS	15
III. TEST RESULTS	18
COMPULSORY TESTS RESULTS	
1. Main power take-off	18
2. Hydraulic power and lifting force	22
3. Drawbar power and fuel consumption	23
OPTIONAL TEST RESULTS	
4. Braking	26
5. Measurement of external noise level	27
6. Repairs	27
7. Remarks	27



Tractor manufacturer's name and address: ZETOR a.s., 632 00 Brno, Czech Republic

Location of tractor assembly: Brno, Czech Republic

Submitted for test by: The manufacturer

Selected for test by: The manufacturer

Place of running-in: Brno, Czech Republic

Duration of running-in: 60 hours

Location of test: SZZPLS Praha 6 - Řepy, Czech Republic

I. SPECIFICATIONS OF TRACTOR

TRACTOR

Make: ZETOR

Model: 7340

Type: Wheeled, unit construction, all wheels drive

Number of driving wheels: 4

Serial No.: 001 017

1st Serial No.: 001 017

ENGINE

Make: ZETOR

Model: 7301

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

Serial No.: 036 634

Cylinders

Number/disposition: 4, in-line, vertical

Bore/stroke: 102 mm/120 mm

Capacity: 3922 cm³

Compression ratio: 17:1



Arrangement of valves:	Overhead
Cylinder liners:	Wet, replaceable
<u>Supercharging</u>	
Make, model and type:	HOLSET, H1D, exhaust driven or KKK, K24-2460 G/5.14, exhaust driven or ČZ, C14, exhaust driven
Pressure:	179 kPa
<u>Fuel system</u>	
Fuel feed system:	Lift pump piston-type, integral with fuel injection pump
Make, model and type of fuel filters:	AUTOBRZDY, 443 741 111 001, one-stage with paper cartridge
Capacity of fuel tank:	95 dm ³
Make, model and type of injection pump:	MOTORPAL, 4M 3137, in-line
Serial No.:	Dk 1802
Manufacturer's production setting of injection pump:	
Flow rate (rated engine speed and full load):	16.95±0.26 dm ³ /h
Timing:	25°+1° before TDC
Make, model and type of injection:	MOTORPAL, DOP 160 S 430-1436, 4 holes
Injection pressure:	18.6-0.8 MPa
<u>Governor</u>	
Make, model and type:	MOTORPAL, RV 3M 300/1100-3300, centrifugal, variable speed
Governed range of engine speed:	600-2410 rev/min
Rated engine speed:	2200 rev/min
<u>Air cleaner</u>	
Make, model and type of pre-cleaner:	SANDRIK, PC 250, cyclon type
Location of air intake:	Above bonnet forward of radiator
Make, model and type of main cleaner:	SANDRIK, 9420.11, oil bath
Maintenance indicator:	None

Lubrication system

Type of feed pump: Gear
Type of filter: Full flow with replaceable paper element
Number: 1
Oil cooler: Heat exchanger with engine coolant

Cooling system

Type of coolant: Water and anti-freeze
Type of pump: Centrifugal, belt driven
Specification of fan: Axial, belt driven
Number of blades: 6
Fan diameter: 380 mm
Coolant capacity: 11.6 dm³
Type of temperature control: Thermostat
Superpressure system: 40±10 kPa

Starting system

Make, model and type: PAL, 443 115 144 722, electrical, solenoid engaged
Starter motor power rating: 2.9 kW
Cold starting aid: None
Safety device: Clutch pedal to be fully depressed

Electrical system

Voltage: 12 V, negative earth
Generator:
Make, model and type: PAL, 443 113 516 651, alternator, belt driven
Power: 770 W
Battery:
Number: 1
Rating: 150 Ah at 20 hours

Exhaust system

Make, model and type: ZETOR, 7901 1400, expansion and absorption muffler
Location: Left-hand side of engine, vertical

**TRANSMISSION TO WHEELS**Clutch

Make, model and type: ZETOR, 7201 1100, dry for travelling and P.T.O.

Number of plates: 2

Diameter of plates: 280 mm

Method of operation: Hydraulically by pedal for travelling and P.T.O. and pneumatically by hand lever for P.T.O.

Gear box

Make, model and type: ZETOR, 6011 1900, mechanical

Arrangement: Partially synchromesh gear box with 5 forward and 1 reverse speeds, group gear box with two speed ranges (T and R) and pneumatically actuated torque multiplier

Number of gears: 20 forward and 4 reverse

Available options: None

Rear axle and final drives

Make, model and type: ZETOR, 6211 2800, crown wheel and bevel pinion differential and spur gear final drives

Differential lock:

Type: Mechanical

Method of engagement: Mechanically by pedal

Method of disengagement: Self-disengaging

Front axle and final drives

Make, model and type: ZTS, 7045 9465, crown wheel and bevel pinion differential and planetary final drives

Differential lock:

Type: Mechanical

Method of engagement: Automatic

Method of disengagement: Automatic

Total ratios and travelling speeds

Gear	Group	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed at rated engine speed of 2200 rev/min km/h (*)
1	TM	408.110	1.51
2		313.633	1.97
3		225.061	2.75
4		158.092	3.91
5		115.231	5.36
1	T	310.865	1.99
2		238.900	2.59
3		171.433	3.60
4		120.421	5.13
5		87.774	7.04
1	RM	96.359	6.41
2		74.052	8.34
3		53.139	11.63
4		37.327	16.55
5		27.207	22.71
1	R	73.399	8.42
2		56.407	10.95
3		40.477	15.27
4		28.433	21.73
5		20.724	29.82
R	TM	306.980	2.01
	T	233.833	2.64
	RM	72.481	8.52
	R	55.211	11.19

T: Turtle range, R: Rabbit range, M: Torque multiplier engaged
 (*) Calculated with a tyre dynamic radius index of 745 mm (ISO 4251/1-1988).

Number of revolutions of front wheels for one revolution of rear-wheels: 1.4162

POWER TAKE-OFFMain power take-off

Type: Independent, through second plate in main clutch



Method of engagement: Pneumatically operated by hand lever or hydraulically by clutch pedal

Number of shafts: 1

Method of changing power take-off speeds: Manually by exchanging shafts

Power take-off proportional to engine speed

Location: At rear of tractor

P.T.O.	Diameter of power take-off shaft end mm	Number of splines	In conformity with ISO 500/1991
540	34.9	6	Yes
1000	34.9	21	Yes

Height above ground: 752 mm

Distance from the median plane of tractor: 0 mm

Distance behind rear-wheel axis: 263 mm

P.T.O.	P.T.O. speed rev/min	Engine speed rev/min	Ratio of rotation speeds (engine/P.T.O.)	Power restriction kW
540	540	1994	3.6923	None
	596	2200		
1000	1000	2050	2.0500	None
	1073	2200		

Direction of rotation (viewed facing driving end): Clockwise

Power take-off proportional to ground speed

Indicate 540 or 1000 rev/min: The same

P.T.O. and range	Travelling distance for one revolution of P.T.O. shaft m	Number of P.T.O. shaft revolutions for one revol. of (rear) driving wheels
T	0.087	53.6395
R	0.370	12.6649

T: Turtle range, R: Rabbit range

Direction of rotation with forward gear engaged (viewed facing driving end): Clockwise

POWER LIFT

Make, model and type: ZETOR, 7211 9485, hydraulic with mechanical position, draft or mixed control, top link sensing

Type of hydraulic system: Open centre

Type and number of cylinders: 1 integral single-acting and 2 external single-acting

Type of linkage lock for transport: Hydraulic

Relief valve pressure setting: 18.0+2.0 MPa

Opening pressure of cylinder safety valve: 21.0+2.0 MPa

Lift pump type: Gear

Transmission between pump and engine: Gear driven from engine

Type and number of filters: 1 magnetic, 1 screen and 1 filter with paper cartridge in delivery side of distributor

Site of oil reservoir: Transmission housing

Type, number and location of tapping points: 2 pressure and 1 return, quick release at rear of tractor

Maximum volume of oil available to external cylinders: 10 dm³



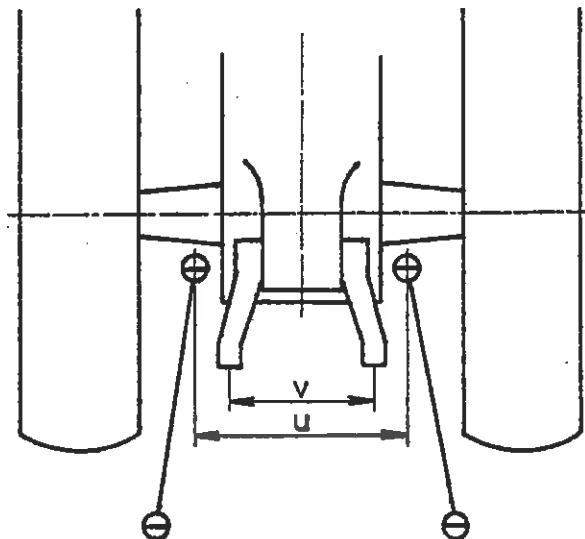
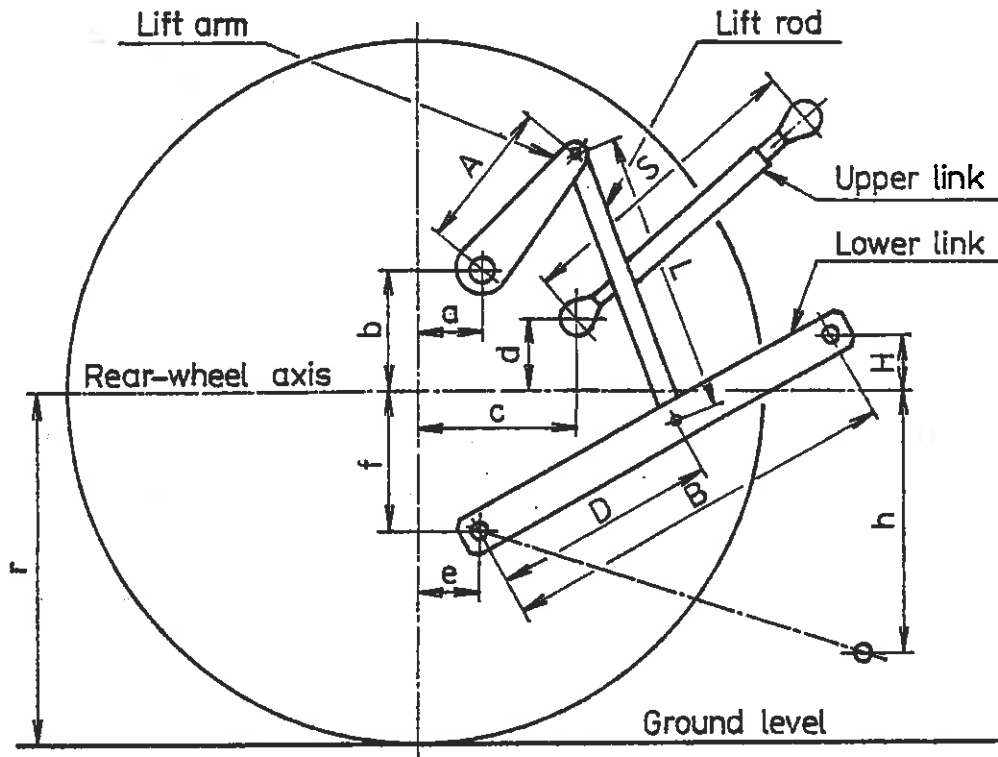
Three-point linkage

Category:

2, in conformity with
ISO 730/1-1990

Category adapter:

None





Linkage geometry dimensions:

		Dimension or range mm	Settings used in test mm
Length of lift arms	(A)	320	320
Length of lower links	(B)	857	857
Distance of lift arm pivot point from :horizontally	(a)	30	30
rear-wheel axis :vertically	(b)	362	362
Horizontal distance between the 2 lower link points	(u)	636	636
Horizontal distance between the 2 lift arm end points	(v)	450	450
Length of upper link	(S)	590 to 770	658
Distance of upper link pivot point from :horizontally	(c)	288	288
rear-wheel axis :vertically	(d)	182, 229, 276, 323	276
Distance of lower link pivot point from :horizontally	(e)	83	83
rear-wheel axis :vertically	(f)	138	138
Distance of lower link pivot points to lift rod pivot points on lower links	(D)	401	401
Length of lift rods	(L)	436 to 572	565
Height of lower hitch points relative to the rear-wheel axis:			
- in low position	(h)	271 to 605	545
- in high position	(H)	99 to 370	195
Height above ground of lower hitch points when locked in transport position (*)		Any height withing lift range	

(*) Assuming the tyre dynamic radius index $r=745$ mm of
ISO 4251/1-1988

SWINGING DRAWBAR

Type: Clevis

Height above ground:

Maximum: 644

Minimum: 474



Type of adjustment:	Inverting drawbar and clevis
Distance of hitch point from rear-wheel axis, horizontally:	653, 664 and 668 mm
Distance of hitch point from power take-off shaft end:	
Vertically:	108, 188, 198 and 278 mm
Horizontally:	390, 401 and 405 mm
Lateral adjustment:	
Right-hand:	80 and 160 mm
Left-hand:	80 and 160 mm
Distance of pivot point from rear-wheel axis, horizontally:	185 mm to front
Diameter drawbar pin hole:	32 mm
Maximum vertical permissible load:	6 kN

TRAILER HITCH

Type:	Automatic clevis
Hole diameter:	35 mm
Height above ground:	777, 827, 877, 927 and 977 mm
Distance of hitch point from rear-wheel axis, horizontally:	628 mm
Distance of hitch point from power take-off shaft end:	
Vertically:	25, 75, 125, 175 and 225 mm
Horizontally:	365 mm
Maximum vertical permissible load:	10 kN

HOLED DRAWBAR

Number of holes:	7
Distance between holes:	80 mm
Hole diameter:	32 mm
Thickness/width of the drawbar:	2x20 mm/90 mm
Height above ground:	
Maximum:	940 mm
Minimum:	200 mm
Horizontal distance to power take-off shaft end:	677 mm

**FRONT TOWING HITCH**

Height above ground: 753 mm
Diameter of pin hole: 31 mm

STEERING

Make, model and type: DANFOSS, OSPC 100 ON, hydrostatic
Method of operation: Independent hydraulic circuit for steering
Pump: Gear, driven from engine
Ram: Double-acting cylinder on the front axle
Working pressure: 8.0 MPa

BRAKESService brake

Make, model and type: ZETOR, 7245 2600, dry disc, multiplate, 2 discs each side
Method of operation: Hydraulically by pedals, coupled or independent
Trailer braking take-off: Air brake operated by tractor pedals

Parking brake

Type: Common with service brake
Method of operation: Mechanically by hand lever with ratchet

WHEELS

Number:
Front: 2, steering and driving
Rear: 2, driving
Wheelbase: 2223 mm



Track width adjustment:

	Minimum mm	Maximum mm	Adjustment method
Front	1520	1790	By changing wheel discs to either side of wheel centre
Rear	1420	1795	Reversing wheels and off-set lug rims

PROTECTIVE STRUCTURE

Make, model and type: ROSTROJ, BK 6245, cab with integrated safety frame

Manufacturer's name and address: ROSTROJ s.p., 683 01 Rousínov, Czech Republic

Protective device: Cab, not tiltable

O.E.C.D. approval number: CSD 1363/2

DRIVER'S SEAT

Make, model and type: MARS, Zetor 5911 - 5400, upholstered seat

Type of suspension: Parallelogram linkage adjustable for driver's weight

Type of damping: Hydraulic

Range of adjustment:

Longitudinal: 150 mm

Vertical: 60 mm

MISCELLANEOUS

Additional seat:

Location: Left-hand side of driver

Number of places: 1

**LIGHTING**

	Height above ground of centre mm	Size mm	Distance from outside edge of lights to median plane of tractor mm
Headlights	1130	120x120	188
Sidelights	1580	60x65	655
Rearlights	1510	105x70	750
Reflectors	960	φ78	760

II. TEST CONDITIONSOverall dimensions

Length mm	Width		Height at top of	
	minimum mm	maximum mm	protective structure mm	exhaust silencer mm
3775	1980	2265	2670	2815

Ground clearance

(unballasted tractor): 383 mm

Clearance-limiting part: Swinging drawbar in lowest position

Tractor mass (with cab)

	Without driver kg	With driver kg
Front	1435	1440
Rear	2145	2215
Total	3580	3655

Tyre and track width specifications

	Front	Rear
Tyres:		
Make	BARUM	BARUM
Dimensions	12.4-24	16.9-34
Ply rating	8	8
Type	diagonal	diagonal
Maximum load (tyre manufacturer's)	14.15 kN	23.80 kN
Maximum load (tractor manufacturer's)	10.00 kN	18.00 kN
Inflation pressure (tyre manufac.)	230 kPa	170 kPa
Dynamic radius index	540 mm	745 mm
Chosen track width:	1620 mm	1420 mm

Oils and lubrication

Capacity and change interval:

	Capacity dm ³	Oil change h	Filter change h
Engine	12.0	200	200
Gear box	27.0	1200	600
Front axle	4.0	2400	-
Rear axle		Common with gear box	
Final drive (front)	2x0.5	2400	-
Final drive (rear)	2x1.9	1200	-
Hydraulic system		Common with gear box	
Steering	4.6	1200	1200
Air cleaner	1.3	100	-



Specifications:

	Recommended	Used during test
Engine oil: Type Viscosity Classification	SAE 20W/40 14.0 cSt at 100 °C API SE/CD+	As recommended
Transmission oils: Type Viscosity Classification	SAE 80W 7.5 cSt at 100 °C API GL-4	As recommended
Steering oil: Type Viscosity Classification	OH-HM 32 28.8 cSt at 40 °C ISO 6743 HM 32	As recommended

Hydraulic fluid: Same as transmission

Air cleaner filling: Same as engine

Grease:

Number of lubrication
points: 26

Fuel

Type: Diesel fuel, in conformity with
national standard ČSN 65 6506

Density at 15 °C:
0.836 g/cm³ for P.T.O. tests
0.843 g/cm³ for drawbar tests

**III. TEST RESULTS****COMPULSORY TESTS RESULTS****1. MAIN POWER TAKE-OFF**

Date and location of tests: 10th June 1993, SZZPLS Praha

Type of dynamometer: FROUDE AG 400

Power	Speed		Fuel consumption			Specific energy
	Engine	P.T.O.	Hourly		Specific	
kW	rev/min		kg/h	l/h	g/kWh	kWh/l
1.1 MAXIMUM POWER - TWO-HOUR TEST						
54.8	2200	1073	14.33	17.14	261	3.20
1.2 POWER AT RATED ENGINE SPEED						
54.8	2200	1073	14.33	17.14	261	3.20
1.3 STANDARD POWER TAKE-OFF SPEED 1000 rev/min						
53.5	2050	1000	13.31	15.92	249	3.36
1.4 PART LOADS						
1.4.1 the torque corresponding to maximum power at rated engine speed						
54.8	2200	1073	14.33	17.14	261	3.20
1.4.2 85 % of torque obtained in 1.4.1						
48.0	2267	1106	12.81	15.32	267	3.13
1.4.3 75 % of torque defined in 1.4.2						
36.7	2310	1127	9.98	11.94	272	3.07
1.4.4 50 % of torque defined in 1.4.2						
24.9	2351	1147	7.93	9.49	318	2.62
1.4.5 25 % of torque defined in 1.4.2						
12.7	2394	1168	5.77	6.90	454	1.84
1.4.6 unloaded						
-	2415	1178	3.85	4.61	-	-



Power	Speed		Fuel consumption			Specific energy
	Engine	P.T.O.	Hourly		Specific	
kW	rev/min		kg/h	l/h	g/kWh	kWh/l
1.5 PART LOADS AT STANDARD POWER TAKE-OFF SPEED 1000 rev/min						
1.5.1 the torque corresponding to maximum power						
53.5	2050	1000	13.31	15.92	249	3.36
1.5.2 85 % of torque obtained in 1.5.1						
46.3	2085	1017	11.48	13.73	248	3.37
1.5.3 75 % of torque defined in 1.5.2						
35.4	2128	1038	9.14	10.93	258	3.24
1.5.4 50 % of torque defined in 1.5.2						
24.1	2177	1062	7.21	8.62	299	2.80
1.5.5 25 % of torque defined in 1.5.2						
12.4	2228	1087	5.19	6.21	419	2.00
1.5.6 unloaded						
-	2253	1099	3.33	3.98	-	-

No load maximum engine speed: 2415 rev/min

Torque (equivalent crankshaft) at maximum power: 237.9 Nm

Maximum torque (equivalent crankshaft): 281.3 Nm
(engine speed: 1599 rev/min)

Mean atmospheric conditions:

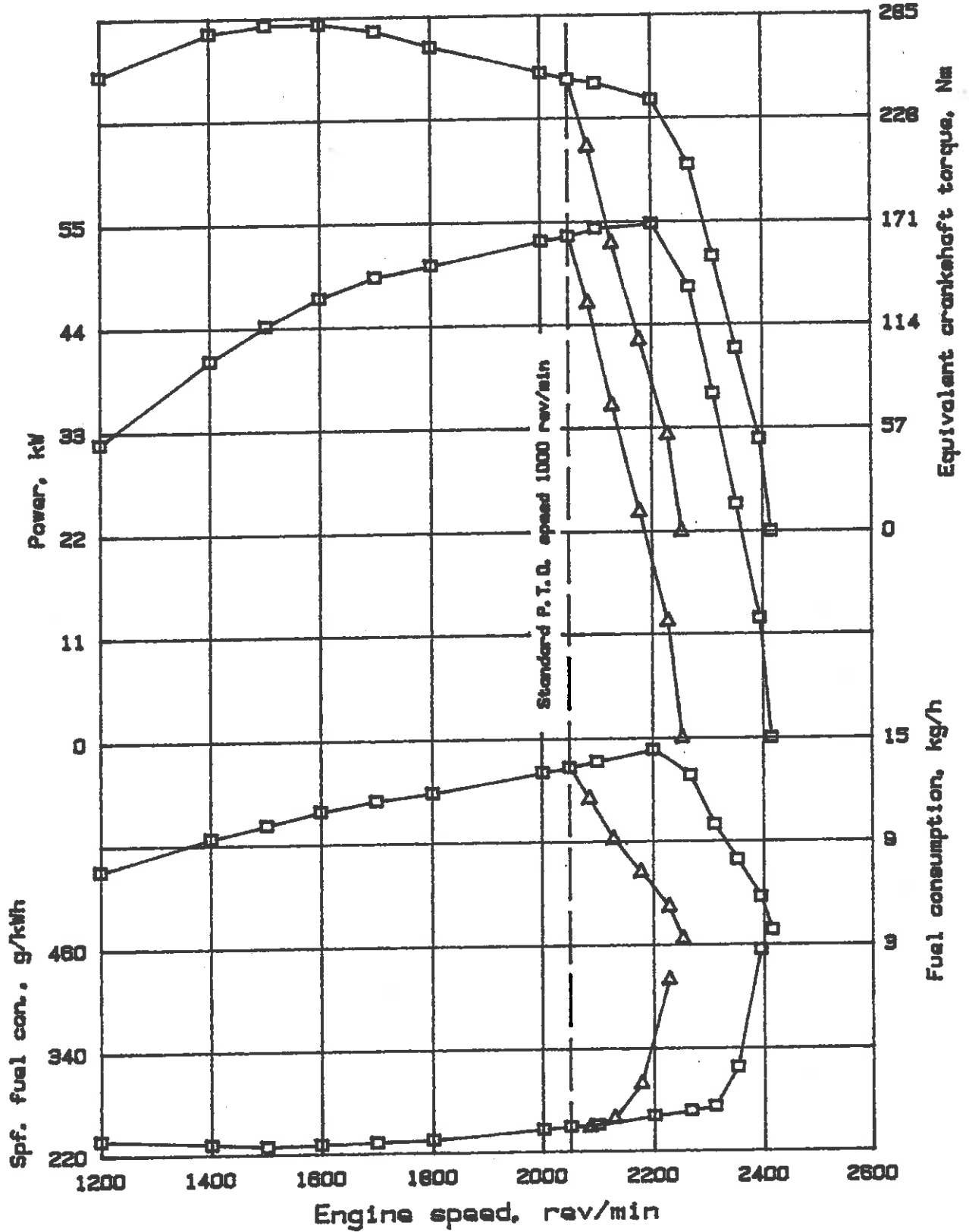
Temperature: 34 °C
 Pressure: 96.9 kPa
 Relative humidity: 53 %

Maximum temperatures:

Coolant: 83 °C
 Engine oil: 107 °C
 Fuel: 52 °C
 Engine air intake: 30 °C

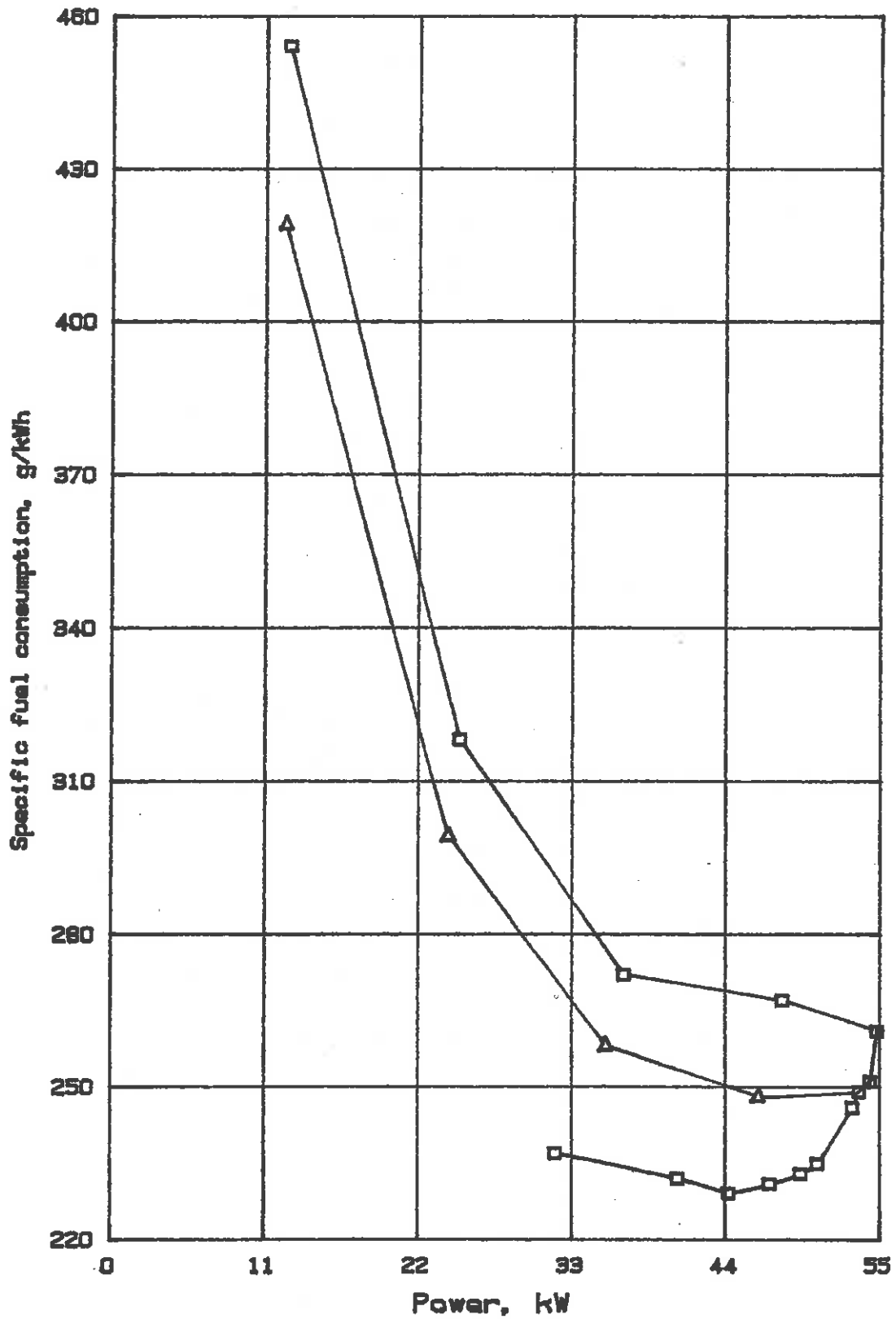


POWER TAKE-OFF TEST





POWER TAKE-OFF TEST



**2. HYDRAULIC POWER AND LIFTING FORCE**

Date of test:

13th and 16th June 1993

2.1 HYDRAULIC POWER TEST

Sustained pressure with relief valve open:

19.5 MPa

Pump delivery rate at minimum pressure:

40.0 l/min

	Flow rate l/min	Pressure MPa	Power kW
At 90 % of the actual relief valve pressure setting	36.1	17.6	10.6
At maximum hydraulic power	36.1	17.6	10.6

Tapping point used for test: External tapping

Temperature of hydraulic fluid:

65 °C

Opening and closing pressures of the unloading valve:

Not applicable

2.2 POWER LIFT TEST

	At the hitch point	On the frame
Height of lower hitch points above ground in down position	200 mm	200 mm
Vertical movement	690 mm	850 mm
Maximum corrected force exerted through full range	36.1 kN	24.6 kN
Corresponding pressure of hydraulic fluid	17.6 MPa	17.6 MPa
Moment about rear-wheel axis	33.9 kNm	38.1 kNm
Maximum tilt angle of mast from vertical	-	11 degrees



Lifting heights relative to the horizontal plane including the lower link pivot points

mm	-487	-407	-400	-300	-200	-100	0	+100	+200	+283	+300	+363
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Lifting forces at the hitch points, corrected to 17.6 MPa

kN	-	47.0	46.0	44.5	43.0	41.3	39.4	38.3	36.9	36.1	-	-
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Lifting forces at the test frame, corrected to 17.6 MPa

kN	41.2	-	39.1	37.0	35.1	32.7	31.1	29.1	27.1	-	25,3	24.6
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3. DRAWBAR POWER AND FUEL CONSUMPTION (UNBALLASTED TRACTOR)

Date of test: 27th July 1993

Type of track: Bituminous-concrete surface

Height of drawbar above ground	Tyre inflation pressure	
	Front	Rear
474 mm	150 kPa	130 kPa



Gear and group	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consumption
	kW	kN	km/h	rev/min	%	g/kWh
3.1 MAXIMUM POWER IN TESTED GEARS						
4 T	35.0	27.0	4.67	2281	15.0	351
5 TM	36.4	27.0	4.85	2269	15.1	354
1 RM	42.2	27.0	5.62	2200	15.1	341
5 T	43.3	24.3	6.41	2204	11.5	330
2 RM	45.0	20.6	7.86	2204	8.9	321
1 R	45.8	20.8	7.93	2205	9.0	314
2 R	46.7	15.8	10.63	2204	6.1	308
3 RM	46.9	14.9	11.34	2197	5.4	307
3 R	47.9	11.4	15.13	2196	4.1	297
4 RM	47.3	10.3	16.52	2204	3.6	302
4 R	46.1	7.6	21.85	2199	2.4	311
3.2 FUEL CONSUMPTION						
3.2.1 in selected gear, at maximum power at rated speed						
3 R	47.9	11.4	15.13	2196	4.1	297
3.2.1.1 75 % of pull at maximum power at rated speed						
3 R	38.0	8.6	15.90	2287	3.0	313
3.2.1.2 50 % of pull at maximum power at rated speed						
3 R	25.8	5.7	16.31	2325	2.0	363
3.2.1.3 next higher gear at reduced engine speed; same pull						
4 RM	38.1	8.6	15.93	2110	3.0	298
3.2.1.4 next higher gear at reduced engine speed; same pull						
4 RM	25.5	5.6	16.39	2166	1.9	356
3.2.2 in selected gear nearest to 7.5 km/h at rated speed						
2 RM	45.0	20.6	7.86	2204	8.9	321
3.2.2.1 75 % of pull at maximum power at rated speed						
2 RM	36.4	15.5	8.45	2289	5.8	315
3.2.2.2 50 % of pull at maximum power at rated speed						
2 RM	25.1	10.3	8.78	2330	3.6	356
3.2.2.3 next higher gear at reduced engine speed; same pull						
1 R	36.3	15.5	8.44	2258	5.8	309
3.2.2.4 next higher gear at reduced engine speed; same pull						
1 R	25.1	10.3	8.77	2296	3.6	347



Specific energy	Temperature			Atmospheric conditions		
	Fuel	Coolant	Engine oil	Temperature	Relative humidity	Pressure
kWh/l	°C	°C	°C	°C	%	kPa
2.40	31	78	93	19	58	97.0
2.38	31	78	92	19	58	97.0
2.48	32	78	94	18	63	97.0
2.55	36	79	95	18	66	97.0
2.63	35	78	94	18	66	97.0
2.69	35	78	96	18	66	97.0
2.74	36	78	95	18	66	97.0
2.74	36	77	95	19	64	97.0
2.84	35	77	94	19	64	97.0
2.79	37	78	95	20	61	96.9
2.71	37	78	92	20	61	96.9
2.84	35	77	94	19	64	97.0
2.69	33	78	86	20	63	96.9
2.32	33	77	89	20	63	96.9
and travelling speed as in 3.2.1.1						
2.83	35	78	90	20	63	96.9
and travelling speed as in 3.2.1.2						
2.37	34	77	91	18	68	96.8
2.63	35	78	94	18	66	97.0
2.67	32	78	92	18	68	96.8
2.37	33	77	92	18	68	96.8
and travelling speed as in 3.2.2.1						
2.73	33	78	92	18	68	96.8
and travelling speed as in 3.2.2.2						
2.43	32	77	92	18	68	96.8



OPTIONAL TEST RESULTS

4. BRAKING

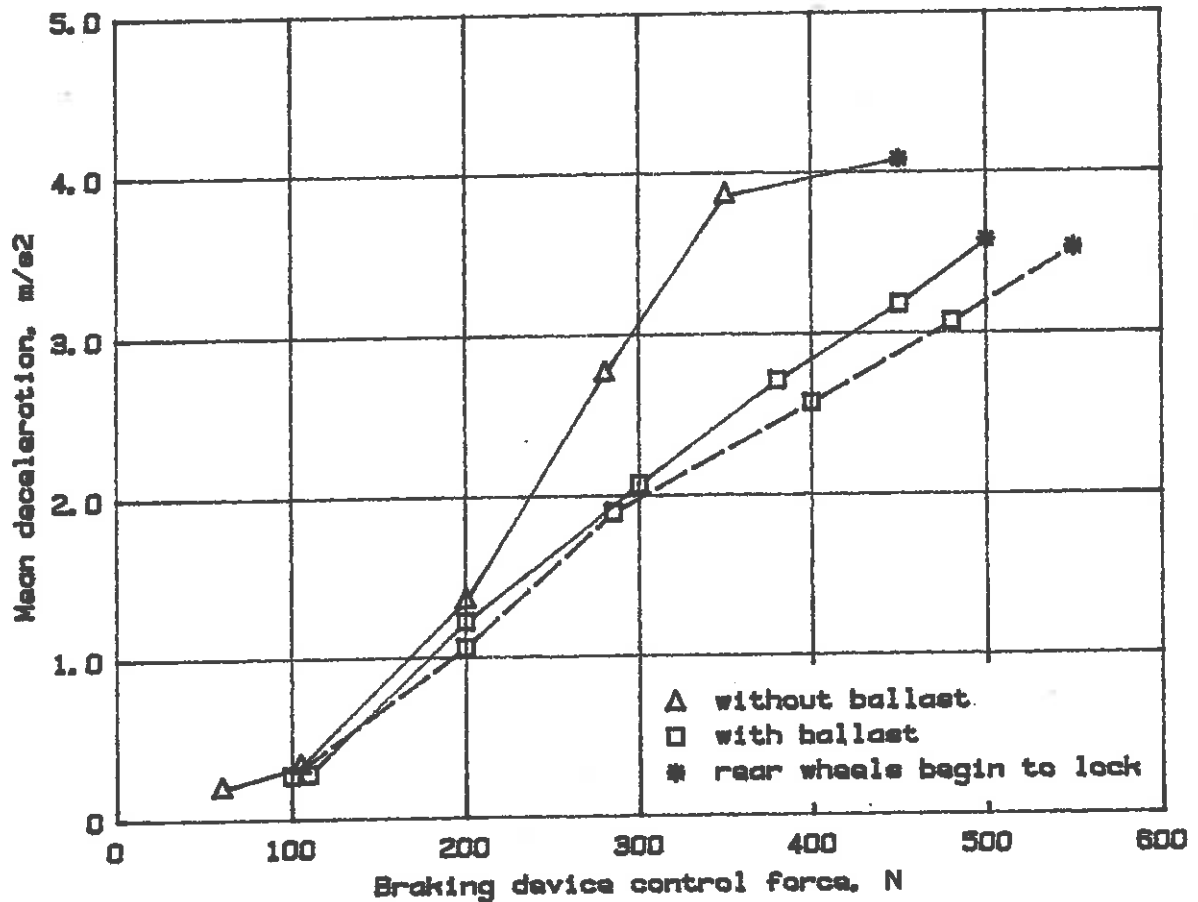
Date of test:

10th August 1993

	Tractor mass (with driver)			Speed before application of brakes km/h
	Front kg	Rear kg	Total kg	
Ballasted	2000	3600	5600	32.0
Unballasted	1440	2215	3655	32.8

4.1 COLD SERVICE BRAKING DEVICE TEST (—————)

4.2 FADE TEST (- - - - -)





Maximum deviation of tractor
from its original course: Not significant

Abnormal vibration: None

Brake heating method: Driven with brakes applied for
1 km at 80 % of maximum speed
with a pedal force corresponding
to a deceleration of 1 m/s^2

4.3 PARKING BRAKING DEVICE TEST

	Ballasted tractor on 18 % - slope	
	Uphill	Downhill
Braking device control force	370 N	350 N

5. MEASUREMENT OF EXTERNAL NOISE LEVEL

Date of test: 28th June 1993

Make and model of sound
level meter: BRÜEL & KJAER, 2231

Type of track: Bituminous-concrete surface

Gear number: 5 R

Travelling speed before
acceleration: 24.6 km/h

Sound level: 84.0 dB(A)

6. REPAIRS None

7. REMARKS None



ZETOR 7340 (4WD)

- 28 -

Report No. 10960

Test carried out by: Dipl. Ing. Vratislav Zykán

Head of the Tractor Department

Dipl. Ing. Peter Pernis

Director

Dipl. Ing. Vladimír Hanzlík

