Report on test in accordance with
O.E.C.D.STANDARD CODE I for the Official
Testing of Agricultural Tractor Performance

O.E.C.D. Approval No. **1／1738 FULL CODE**



Agricultural Tractor
KUBOTA L2500DT(4WD)

Manufactured by:
KUBOTA Corporation, TSUKUBA Plant
Aza,Sakanoshinden,Yawaramura, Tsukubagun, IBARAKI, JAPAN

INSTITUTE OF AGRICULTURAL MACHINERY
BIO-ORIENTED TECHNOLOGY RESEARCH ADVANCEMENT INSTITUTION
(IAM-BRAIN)
OMIYA, Japan

This bulletin is based on engineering tests in accordance with the O.E.C.D.STANDARD CODE for the Official Testing of Agricultural Tractor Performance (Code Ⅰ). It does not contain the evaluation of the tractor performance on practical work.This report has been approved by the O.E.C.D. Coordinating Center (C.E.M.A.G.R.E.F., France) as being in accordance with the O.E.C.D. STANDARD CODE.

Test No.: H 9－T001
Duration of Test: November, 1997
Date of Approval: 6th March, 1998

Make: KUBOTA
Model: L2500DT
Type: 4WD
Serial number: L2500D-52553
1st Serial number: L2500D-50001

In this report all performance characteristics are given corresponding to the International system of Units.
The reference to the former used Technical Systems of Units is given by the following relations:

Forces	1kgf	=	9.80665 N
Powers	1PS	=	0.7355 kW
	1HP	=	0.7453 kW
Pressures	1kgf／cm²	=	98.0665 kPa

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Printed in **JAPAN**

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GENERALITIES

Tractor manufacturer's name and address:	KUBOTA Corporation, Tsukuba Plant Aza, Sakanoshinden, Yawaramura, Tsukubagun, IBARAKI, JAPAN
Location of tractor assembly:	-Ditto-
Submitted for test by:	The manufacturer
Selected for test by:	The manufacturer with agreement by BRAIN
Place of running-in:	KUBOTA Corporation, Tsukuba Plant
Duration of running-in:	Engine and Tractor 41 h
Location of test:	BRAIN

SPECIFICATION OF TRACTOR

TRACTOR

Make:	KUBOTA
Model:	L2500DT
Type:	Four-wheel drive, unit construction
Number of driving wheels:	Four
Serial Number:	L2500D-52553
1st Serial Number:	L2500D-50001

ENGINE

Identification

Make:	Own make
Model:	D1403-AE-2
Type:	4-cycle diesel engine with indirect injection, water cooled, naturally aspirated
Serial Number:	D1403-A4149

Cylinders

Number:	Three
Disposition:	Vertical, in-line
Bore／Stroke:	80.0／92.4 mm
Capacity:	1393 cm^3
Compression ratio:	23:1
Arrangement of valves:	Over head
Cylinder liners:	None

Fuel System

Fuel feed system:	Gravitational feed type
Filters	
Make:	TOKYO ROKI Co. LTD.
Model:	V53026A-0000
Type:	Replaceable paper element type
Number:	One

Capacity of fuel tank:	29 litters
Injection pump	
Make:	DENSO Corporation
Model:	ND-PFR3M55A2ND567
Type:	Bosch type
Serial Number:	16427
Manufacturer's production setting of injection pump	
Flow rate:	6.0±0.8 ℓ/h at rated engine speed and full load
Timing:	17～19 degrees before T.D.C.
Injectors	
Make:	DENSO Corporation
Model:	DNOPD 80
Type:	Throttle Type
Injection pressure:	13.7 MPa

Governor

Make:	Own make
Type:	Mechanical (All speed governor)
Governed range of engine speed:	From 900 to 3020 rev／min
Rated engine speed:	2800 rev／min

Air cleaner

Pre-cleaner:	Not fitted
Make:	－
Model:	－
Type:	－
Location of air intake:	－
Main cleaner:	
Make:	WAKO Industrial Co., LTD.
Model:	11304-0002
Type:	Dry single paper element
Location of air intake:	Under the bonnet, in front of the radiator
Maintenance indicator:	Not fitted

Lubrication system

Type of feed pump:	Forced feed (Trochoidal pump)
Type of filter:	Replaceable paper element, cartridge type
Number:	One

Cooling system

Type of coolant:	50／50 solution of permanent antifreeze and clean water
Type of pump:	Centrifugal
Type of fan:	Axial
Number of fan:	Seven
Fan diameter:	320 mm
Coolant capacity:	6.0 litters
Type of temperature control:	Wax type thermostat
System pressure:	88.3 kPa

Starting System

Make:	DENSO Corporation
Model:	ND128000-8460
Type:	Solenoid engaged type
Starter motor power rating:	1.2 kW
Cold starting aid:	Electrical glow plug
Safety device:	Operable only with sub change lever disengeged and PTO change lever disengaged

Electrical system

Voltage:	12 Volts
Generator	
Make:	DENSO Corporation
Model:	ND100211-4610
Type:	3-phase Generator
Power:	30 Amps
Battery	
Number:	One
Rating:	490 Cold Cranking Amps (52 Ah at 5 hours)

Exhaust system

Make:	HANKEN NARA SEISAKUSHO, Co., LTD.
Model:	Multi chamber absoptin-expansion
Location:	Vertical on the left side of tractor

TRANSMISSION TO WHEELS

Clutch (travel and Power Take-Off)

Make:	EXEDY Corporation
Model:	C261C00
Type:	Dry single
Number of plates:	One
Diameter of plates:	215 mm
Method of disengagement:	Operated by foot pedal

Gear box

Make:	Own make
Type:	Mechanical
Arrangement:	Main gear shift with 4 forward and 1 reverse speed: constant mesh 2 speed gears(1st, 4th) and sliding selective 3 speed gears(2nd, 3rd, reverse) Range gear shift with 2 speeds: sliding selective 2 speed gears high(H) and low(L)
Number of gears:	Totally 8 forward and 2 reverse speeds
Available options:	None

Rear axle and finel drives

Make:	Own make
Type:	Bevelgear type differentialand spur gear type finaldrives
Differential lock	
Type:	Mechanical, dog clutch
Method of engagement:	Operated by foot pedal
Method of disengagement:	Self disengagement

Front axle and finel drives

Make:	Own make
Type:	Bevel gear type differential and final drives
Differential lock	Not availabe

Total ratios and travelling speeds (tested tractor)

Gear Number	Range	Number of revolutions for one revolution of the driving wheels		Nominal travelling speed() at rated engine speed of 2800 rev./min.[km/h]	
		Forward	Reverse	Forward	Reverse
1	1-L	412.226	242.286	1.32	2.24
2	2-L	317.097	59.689	1.71	9.11
3	3-L	220.931	—	2.46	—
4	4-L	127.451	—	4.27	—
5	1-H	101.471	—	5.36	—
6	2-H	78.055	—	6.96	—
7	3-H	54.383	—	10.00	—
8	4-H	31.373	—	17.33	—

( ) Calculated with a tyre dynamic radius index (ISO 4251／1-1992) 515 mm

Number of revolutions of front wheels for one revolution of rear wheels: 1.6363

POWER TAKE-OFF

Main Power Take-Off

Type:	Transmission driven P.T.O.
Method of engagement:	By means of transmitting gears and shifting gear lever
Number of shafts:	One (540 rev/min and 1000 rev/min)
Method of changing Power Take-Off shafts ends speeds	Speed change by shting gear lever

Power Take-Off proportional to engine speed
540 rev./min. one speed (fitted in tested tractor)

Location:	At rear of tractor
Diameter of Power Take-Off shaft end:	35 mm
Number of splines:	Six, in conformity with ISO 500/1991
Height above ground:	532 mm
Distance from the median plane of the tractor:	0 mm
Distance behind rear axle center:	175 mm
Power Take-Off speed at rated engine speed (2800 rev./min.)	622 rev/min
Engine speed at standard Power Take-Off speed (540 rev./min.):	2430 rev/min
Ratio of rotation speeds (engine speed/P.T.O. speed):	4.5
Powerrestriction and maximum torque:	16.8 kW, 375 Nm
Direction of rotation (viewed from shaft end):	Clockwise

540/1000 rev./min. one speed (fitted in tested tractor)

Location:	At rear of tractor
Diameter of Power Take-Off shaft end:	35 mm
Number of splines:	Six, in conformity with ISO 500/1991
Height above ground:	532 mm
Distance from the median plane of the tractor:	0 mm
Distance behind rear axle center:	175 mm
Power Take-Off speed at rated engine speed:	540 rpm: 622 rev/min 1000 rpm: 1161 rev/min
Engine speed at standard Power Take-Off speed (540 rev./min.):	540 rpm: 2430 rev/min 1000 rpm: 2410 rev/min
Ratio of rotation speeds (engine speed/P.T.O. speed):	540 rpm: 4.50 1000 rpm: 2.41
Direction of rotation (viewed from shaft end):	Clockwise

Power Take-Off proportional to ground speed — Not availble

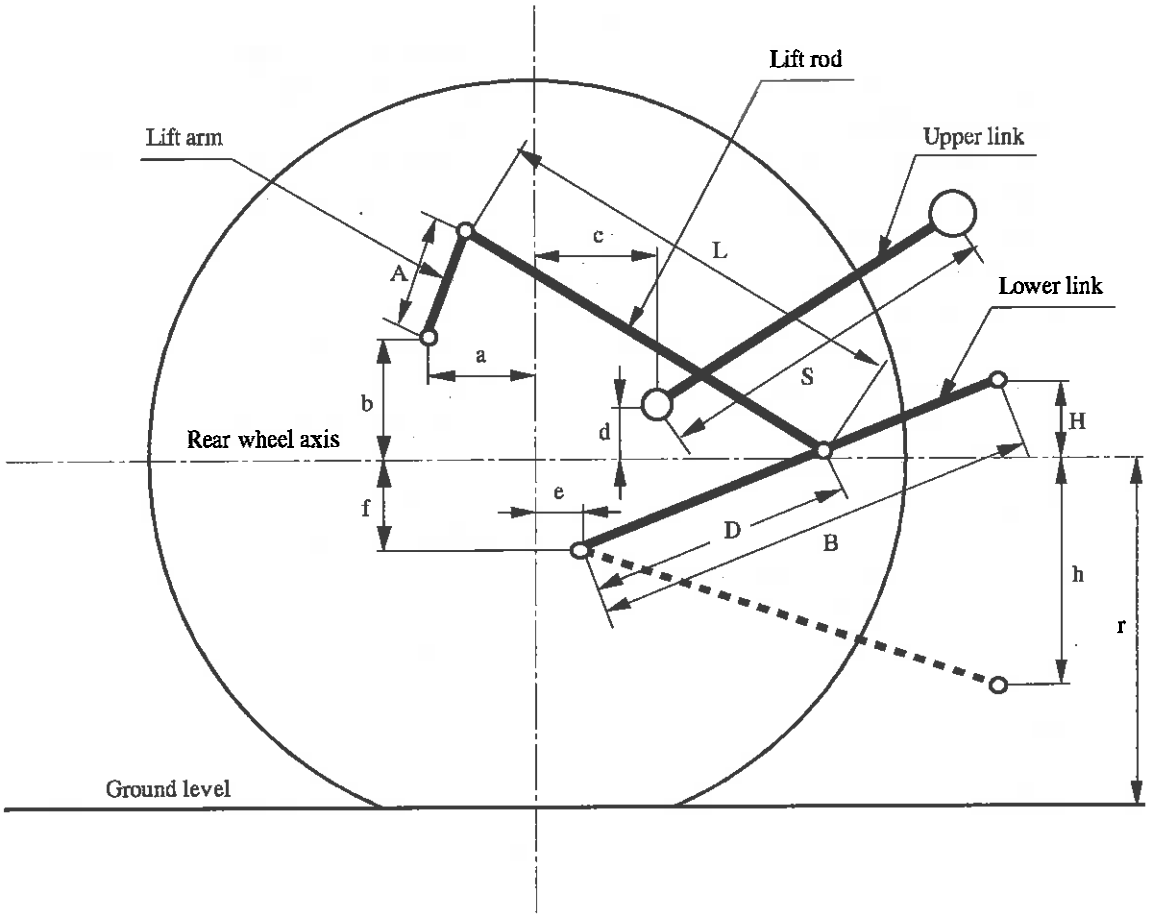
POWER LIFT

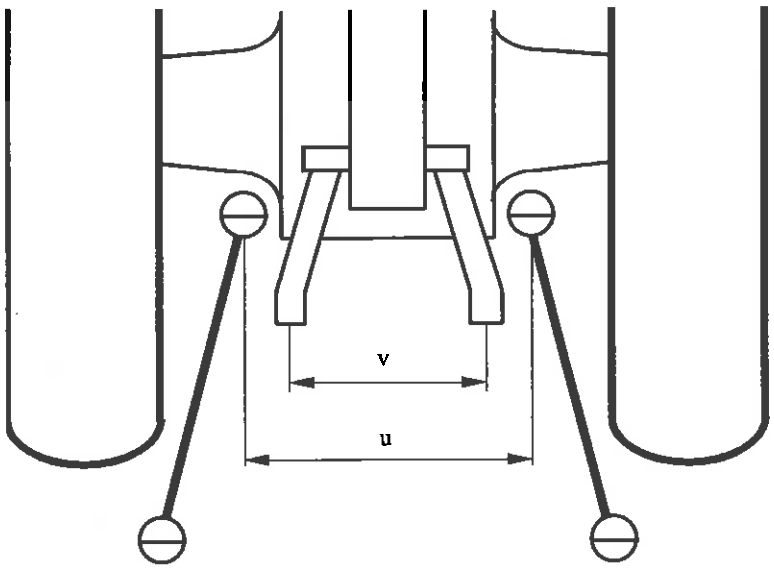
Make:	Own make
Type:	Hydraulic 3-point Hitch (position and draft control)
Type of hydraulic system:	Open center system
Type and number of cylinders:	Single acting, one
Type of linkage lock for transportation:	Hydraulically closed by throttle valve
Relief valve pressure setting for lifting:	From 14.7 to 15.7 Mpa
Opening pressure of cylinder safety valve:	Not fitted
Lift pump type:	Gear type
Transmission between pump and engine:	Gear drive
Type and number of filters:	Metal mesh strainer, one
Site of oil reservoir:	In rear transmission case
Type, number and location of tapping points:	Rp 1／4" Plug, One, in front of Hydraulic cylinder
Maximum volume of oil available to external cylinders:	Hydraulic oil should be added for external hydraulic circuit

Three point linkage

Categoty:	I (in accordance with ISO 730／1-1990)

Linkage geometry





Dimensions of linkage geometry (when connected to the standard frame)

Linkage			Dimension of range (mm)	Settings used in test (mm)
Length of lift arms		(A)	230	230
Length of lower links		(B)	620	620
Distance of lift arm pivot point from rear-wheel axis	horizontally	(a)	-10	-10
	vertically	(b)	305	305
Horizontal distance between the two lower link points		(u)	221	221
Horizontal distance between the two lift arm end points		(v)	333	333
Length of upper link		(S)	from 500 to 730	630
Distance of upper link pivot point from rear wheel axis	horizontally	(c)	120 120 120	120
	vertically	(d)	250 190 130	250
Distance of lower link pivot point from rear wheel axis	horizontally	(e)	112	112
	vertically	(f)	85	85
Distance of lower link pivot points to lift rod pivot points on lower links		(D)	280	280
Length of lift rods (actual length)		(L)	415 440 465	440
Height o lower hitch points relative to the rear wheel axis				
- in low position		(h)	420	350
- in high position		(H)	300	244
Height above ground of lower hitch points when locked in transport position(*)			from 95 to 815	774

(*) Assuming r = tyre dynamic radius index (ISO 4251／1-1992) 515 mm

FIXED DRAWBAR

Type:	Bar type, crevice type (as option)
Height above ground(tyre size 11.2-24)	379 mm at top surface of bar
Distance of hitch point from rear wheel Axis, horizontally:	530 mm
Distance of hitch point from PTO shaft end	
Vertically:	153 mm at top surface of bar
Horizontally:	355 mm
Diameter of drawbar pin hole:	25 mm
Maximum vertical permissible load:	3.2 kN

SWINGING DRAWBAR

Not fitted

TRAILER HITCH

Not fitted

STEERING

Make:	Nippon Power Steering Co. Ltd.
Model:	PQC 0824
Type:	Power-assisted with single drag link
Method of operation:	Steering wheel operated and hydraulic power assisted
Pump:	Gear type
Ram:	Integral type
Working pressure:	From 10.0 to 10.6 Mpa
Option:	Ball and screw type with single drag link (Not fitted on the test tractor)

BRAKES

Service brake

Make:	Own make
Type:	2 wet disks operated by foot pedals which can be locked together
Method of operation:	Independent or combined pedal
Trailer breaking take-off:	Not available

Parking brake

Type:	Mechanical acting type
Method of operation:	In common with service brake; operated by foot pedals with ratchet

WHEELS

Number:	Two, steering and driving
Front:	Two, driving
Wheelbase:	1565 mm

Track width adjustment

	Minimum [mm]	Maximum [mm]	Adjustment method
Front	1010	1010	Not adjustable
Rear	1020	1295	Changing by turning wheels and offset of rims

PROTECTIVE STRUCTURE

Make:	KUBOTA
Model:	SFL-20A
Protective device:	2-Post configuration, attached to the rear axle case

DRIVER'S SEAT

Make:	Michigan Seat Company
Model:	V-818
Type of suspension:	Parallelogram spring
Type of damping:	Not available
Range of adjustment	
Longitudinal:	100 mm
Vertical:	Not available

LIGHTING

	Height above ground of center [mm]	Size	Distance from outside edge of lights to median plane of tractor [mm]
Headlights	1120	142.5×76	238
Sidelights	-	-	-
Hazard	1275	ϕ 120	591
Tail light	1255	ϕ 84	465
Reflectors	1155	129×46	530

TEST CONDITIONS

Overall dimensions

	Length [mm]	Width		Height	
		minimum [mm]	Maximum [mm]	At top of protective structure [mm]	Exhaust silencer [mm]
Unballasted	2870	1295	1570	2120	1975
Ballasted	3075	1400	1570	2095	1950

Ground clearance: 310 mm
Clearance-limiting part: Front Differential Gear

Tractor mass

	Ballasted		Unballasted	
	Without driver [kg]	With driver [kg]	Without driver [kg]	With driver [kg]
Front	591	597	456	462
Rear	886	955	603	672
Total	1477	1552	1099	1134

Ballast

Front:	5 weights, total	98 kg
Rear:	6 weights, total	164 kg
	Water in the tires	485 kg

Tyres and track width specifications

	Front	Rear
Tyres:		
-dimension	7-16	11.2-24
-ply rating	4	4
-type	cross-ply	cross-ply
-maximum load [kN]	3.97	8.28
-inflation pressure [kPa]	176.5	117.6
-dynamic radius index [mm]	352	515
Chosen track width [mm] :	1010	1020

Oils and lubrication

－Capacity and change interval

	Capacity [l]	Oil change [h]	Filter change [h]
Engine	5.7	100	200
Gear box including rear axle, final drive (front and rear), hydraulic system and power steering	28	400	cleaning period 400
Front axle	6	400	－
Service brake	－	－	－

－Specifications

	Recommended	Used during test
Engine oil: Viscosity Classification	Below 0° C : SAE 10W, SAE 10W-30 or 10W-40 From 0° C to 25° C : SAE 20W, SAE 10W-30 or 10W-40 Above 25 ° C : SAE 30 W, SAE 10W-30 or 10W-40 API service classification CC or CD	SAE 10W-30
Transmission oils, Hydraulic fluid and Steering oil Viscosity Classification	KUBOTA UDT	KUBOTA UDT

Grease:

Number of lubrication points: 5

Fuel:

Type: Diesel fuel No.2 in conformity with JIS

Density at 15° C: 0.833 g／cm

COMPULSORY TESTS RESULTS

1 MAIN POWER TAKE-OFF

Date and location of tests: 5th November, 1997, BRAIN, Omiya
Type of dynamometer: Direct current, MEIDENSHA EB-DH1

Power	Speed		Fuel Consumption			Specific Energy
	engine	Power take-off	hourly		specific	
[kW]	[rev／min]		[kg／h]	[l／h]	[g／kW・h]	[kWh／l]
1.1 Maximum power - 2 hours test						
16.8	2800	622	4.67	5.60	278	3.000
1.2 Power at rated engine speed						
16.8	2800	622	4.67	5.60	278	3.000
1.3 Standard power take-off speed (540 rev／min)						
16.5	2430	540	4.34	5.21	263	3.167
1.4 Part loads (governor control being set for maximum power at rated engine speed)						
1.4.1 The torque corresponding to maximum power at rated engine speed						
16.8	2800	622	4.67	5.60	278	3.000
1.4.2 85% of torque obtained in 1.4.1						
14.6	2831	629	4.28	5.14	293	2.840
1.4.3 75% of torque defined in 1.4.2						
11.1	2849	633	3.60	4.32	324	2.569
1.4.4 50% of torque defined in 1.4.2						
7.4	2867	637	2.92	3.50	394	2.114
1.4.5 25% of torque defined in 1.4.2						
3.8	2898	644	2.30	2.76	605	1.377
1.4.6 Unloaded						
0	2939	653	1.50	2.13	-	-
1.5 Part loads (governor control being set for maximum power at standard power take-off speed)						
1.5.1 The torque corresponding to maximum power at standard power take-off speed						
16.5	2430	540	4.34	5.21	263	3.167
1.5.2 85% of torque obtained in 1.5.1						
14.3	2480	551	3.92	4.70	274	3.043
1.5.3 75% of torque defined in 1.5.2						
10.8	2507	557	3.23	3.88	299	2.784
1.5.4 50% of torque defined in 1.5.2						
7.3	2529	562	2.62	3.14	358	2.325
1.5.5 25% of torque defined in 1.5.2						
3.7	2556	568	2.00	2.40	540	1.542
1.5.6 Unloaded						
0	2597	577	1.47	1.77	-	-

Other results

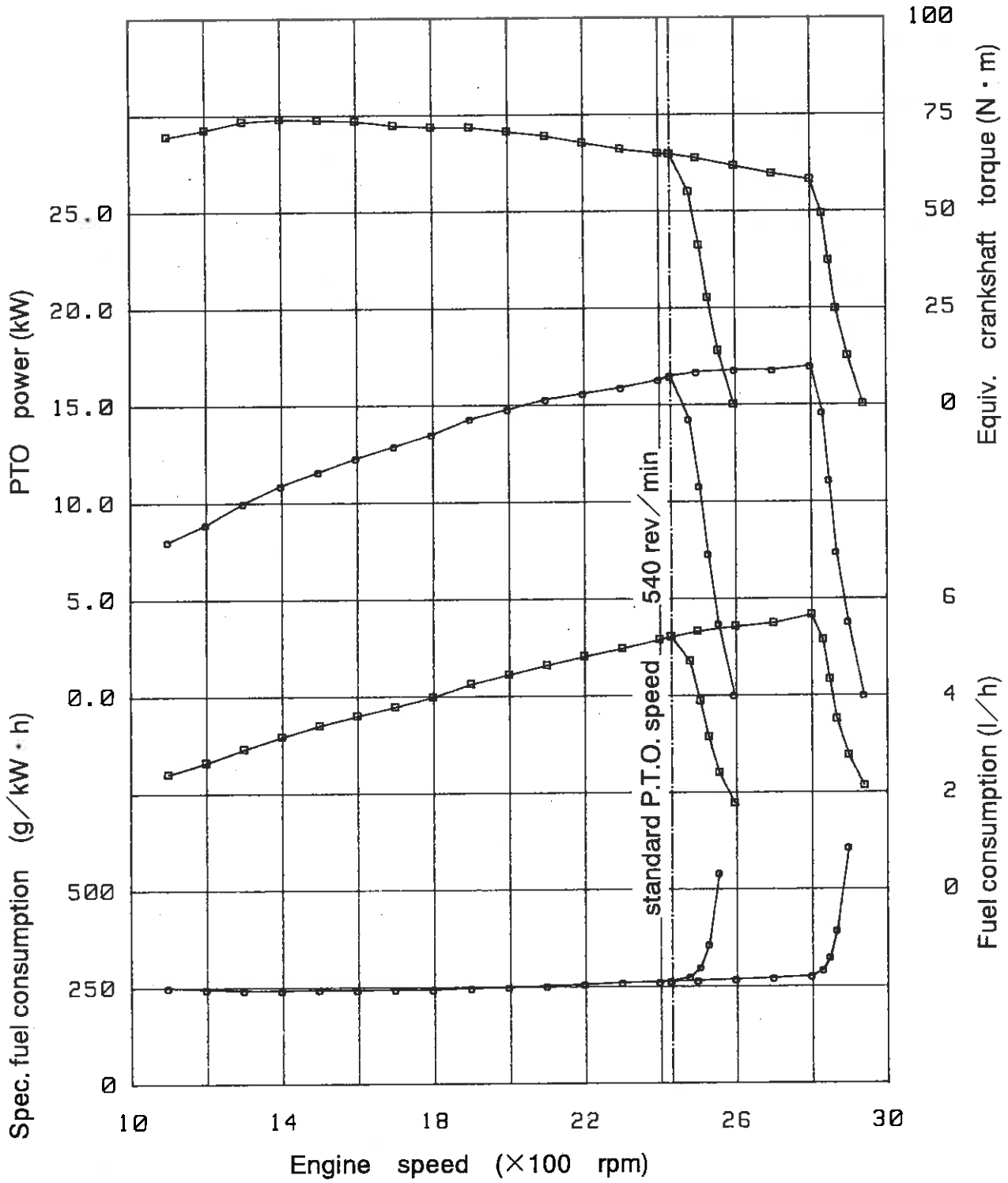
No load maximum engine speed:	2939 rev／min
Torque (equivalent crankshaft) at maximum power:	57.3 N・m
Torque (equivalent crankshaft) at rated engine speed:	57.3 N・m
Maximum torque (equivalent crankshaft): (engine speed: 1400 rev／min)	74.0 N・m

Mean atmospheric conditions

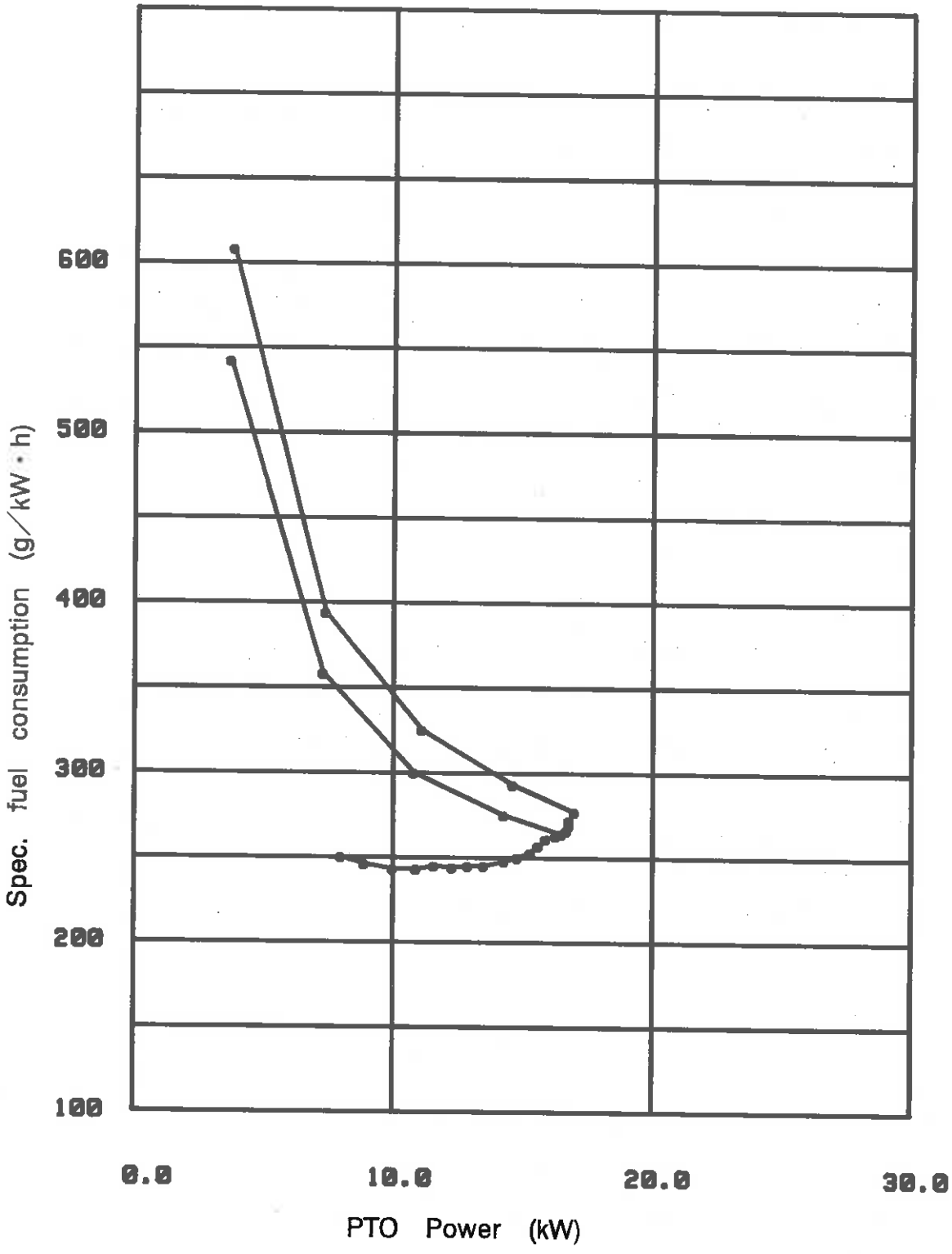
Temperature:	17 ˚C
Pressure:	100.0 kPa
Relative humidity:	66 %

Maximum temperatures

Coolant:	91 ˚C
Engine oil:	100 ˚C
Fuel:	20 ˚C
Engine air intake:	26 ˚C



POWER TAKE-OFF PERFORMANCE



POWER TAKE-OFF PERFORMANCE

2 HYDRAULIC POWER AND LIFTINGE FORCE

Date of tests: 11th November, 1997

2.1 HYDRAULIC POWER TEST

Tapping point used for test: Auxiliary service connection (can be measured by transferring circuit)

Sustained pressure with relief valve open: 15.7 MPa

Pump delivery rate at minimum pressure: 29.1 l／min

Temperature of hydraulic fluid: 62 ˚C

	Flow rate [l／min]	Pressure [MPa]	Power [kW]
Flow rate corresponding to a hydraulic pressure equivalent to 90 percent of the actual relief valve pressure setting and corresponding hydraulic power	28.2	14.1	6.63
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	28.1	14.2	6.66

2.2 POWER LIFT TEST

		At hitch point	On the frame
Height of lower hitch points above ground in down position [mm]		180	108
Vertical movement without lifting forces [mm]		594	769
with lifting forces [mm]		570	727
Maximum corrected force exerted through full range (**) [kN]		7.65	5.93
Corresponding pressure of hydraulic fluid [MPa]		14.1	14.1
Moment about rear wheel axle [kN・m]		5.60	7.96
Maximum tilt angle mast from vertical [Degrees]		-	10

Lifting height(*) [mm]		-337	-300	-265	-200	-100	0	100	200	300	305	400
Lifting force (**)	at the hitch point [kN]	-	-	7.65	7.79	8.06	8.29	8.51	8.69	8.96	9.04	-
	at the frame [kN]	5.93	5.93	-	6.18	6.40	6.45	6.54	6.45	6.40	-	6.41

(*) Lifting heights relative to the horizontal plane including the lower link pivot points.

(**) The values of force measured are corrected to correspond to a hydraulic presure equivalent to 90 % of the actual relief valve pressure setting.

13. DRAWBAR PERFORMANCE

Date of tests: 5th, 6th, 7th and 10th November, 1997
Type of track: Concrete

			front	rear	
Tyre size: Front: 7-16	Tire inflation pressure:	unballasted:	184 kPa	122 kPa	Height of drawbar above ground: unballasted: 440mm
Rear: 11.2-24		ballasted:	184 kPa	122 kPa	ballasted: 420mm

Gear No. and range	Power [kW]	Drawbar pull [kN]	Travelling speed [km/h]	Engine speed [rev/min]	Slip of wheels [%]	Specific fuel consumption [g/kW・h]	Specific energy [kW・h/l]	Temperature			Atmospheric condition		
								Fuel [°C]	Coolant [°C]	Engine oil [°C]	Temperature [°C]	Relative humidity[%]	Pressure [kPa]
3.1 MAXIMUM POWER IN TESTED GEARS (unballasted tractor)													
1 - L	2.49	7.45	1.19	2889	15.2	860	0.967	32	75	90	21	29	101.9
2 - L	3.26	7.46	1.58	2885	15.2	698	1.196	31	76	89	20	30	102.0
3 - L	4.62	7.39	2.27	2869	15.3	581	1.434	30	75	89	19	30	102.0
4 - L	8.10	7.46	3.92	2844	15.3	440	1.894	31	75	90	19	31	102.0
1 - H	10.0	7.37	4.90	2832	15.2	397	2.099	32	77	89	21	29	101.9
2 - H	13.0	7.30	6.41	2802	13.1	371	2.246	23	76	84	17	34	102.0
3 - H	12.9	4.73	9.83	2797	7.4	365	2.278	26	77	88	17	34	102.0
3.2 MAXIMUM POWER IN TESTED GEARS (ballasted tractor)													
1 - L	4.12	12.76	1.15	2878	15.2	617	1.352	29	75	88	21	26	101.9
2 - L	5.42	12.88	1.51	2867	15.2	506	1.649	30	76	90	21	26	101.9
3 - L	7.74	12.89	2.16	2847	15.2	425	1.958	35	79	94	21	26	101.9
4 - L	12.8	12.29	3.74	2787	13.5	352	2.366	35	82	95	21	27	101.9
1 - H	13.0	9.53	4.90	2777	9.4	355	2.348	32	80	91	21	27	101.8
2 - H	12.9	7.00	6.59	2794	6.7	358	2.330	29	78	86	20	27	101.8
3 - H	12.1	4.53	9.65	2761	4.0	377	2.214	31	80	90	21	27	101.8
3.3.1 FIVE HOURS TEST at 75 % of pull at maximum power													
1 - H	10.3	7.15	5.18	2847	6.8	386	2.159	32	77	93	21	27	102.3
3.3.2 FIVE HOURS TEST at pull corresponding to 15 % wheelslip													
3 - L	7.74	12.89	2.16	2847	15.2	425	1.958	35	79	92	21	26	101.9

(*) Oil consumption during ten hours duration of tests 3.3.1 and 3.3.2: 0 g/h

4 TURNING AREA AND TURNING CIRCLE

Front wheel drive disengaged

	With brakes		Without brakes	
	left-hand [m]	right-hand [m]	left-hand [m]	right-hand [m]
Radius of turning area	2.69	2.66	3.02	3.01
Radius of turning circle	2.85	2.82	3.19	3.18

Front wheel drive engaged

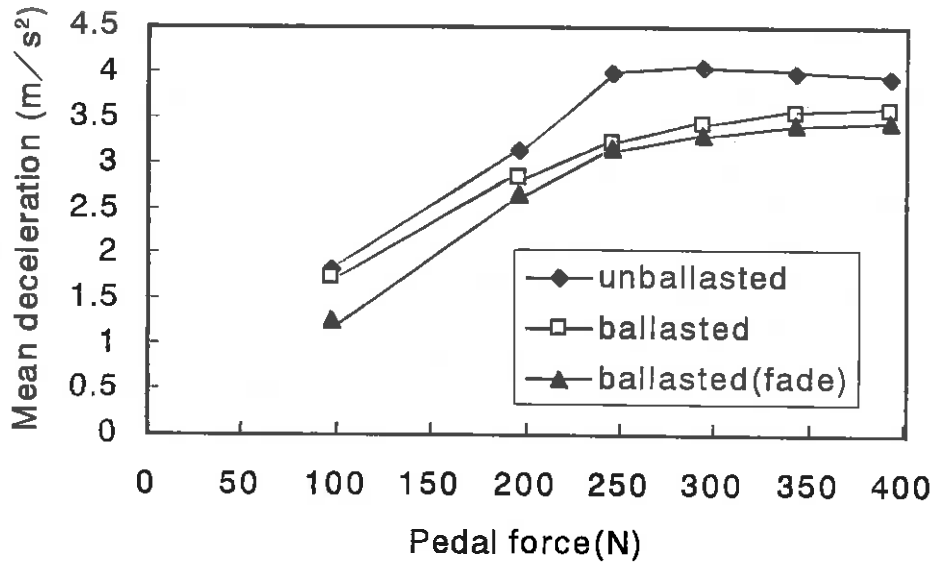
	With brakes		Without brakes	
	left-hand [m]	right-hand [m]	left-hand [m]	right-hand [m]
Radius of turning area	2.48	2.50	3.19	3.20
Radius of turning circle	2.66	2.68	3.37	3.38

5 LOCATION OF CENTER OF GRAVITY

Height above ground: 686 mm
Distance forward from the vertical plane containing the axis of the rear-wheels: 638 mm
Distance from the median plane of the tractor (to the left): 4 mm

6 BRAKING (front wheel drive disengaged)

Date of tests: 6th and 11th, November, 1997



COLD SERVICE BRAKING DEVICE TEST AND FADE TEST

6.1 COLD SERVICE BRAKING DEVICE TEST

	Ballasted tractor	Unballasted tractor
Speed before application of brakes (km/h)	16.8	18.5

6.2 FADE TEST

Speed before application of brakes: 16.8 km/h
Maximum deviation of tractor from its original course: None
Abnormal vibraion: None
Brake heating method: By means of towing the tractor for 1km at 13.4km/h with the towing force of 1.54 kN

6.3 PARKING BRAKING DEVICE TEST

	Ballasted tractor on 18% slope	
	uphill	downhill
Braking device control force [N]	216	177

7 MEASUREMENT OF EXTERNAL NOISE LEVEL

Date of tests:	4th November, 1997
Sound level meter	
Make:	RION
Model:	NA-61
Type:	Precision sound level meter
Type of track:	Concrete
Gear number:	4-H
Travelling speed before acceleration:	14.7 km/h
Sound level:	80 dB(A)

REPAIRS AND ADJUSTMENTS DURING TESTS

None

REMARKS

None