Report on test in accordance
with O.E.C.D. STANDARD CODE

O.E.C.D. No. 903



Agricultural Tractor
KUBOTA L.245 DT (4WD)

Manufacturer
Kubota Ltd.
Naniwa-Ku, Osaka - Japan

Deutsche Landwirtschafts-Gesellschaft e. V.
Zimmerweg 16 · D-6000 Frankfurt a. M. 1
Telefon: (069) 7168-0 · Telex: 0413185 dlg-d

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. It does not contain an evaluation of the tractor performance on practical work.

Duration of Tests: April till Mai 1984
DLG-Testing-Station for Agricultural Machinery, Max-Eyth-Weg 1,
D-6114 Groß-Umstadt

This report has been approved by the O.E.C.D. Coordinating Centre (C.E.M.A.G.R.E.F., France) as being in accordance with the O.E.C.D. STANDARD CODE.

Date of Approval: 18th September 1984 O.E.C.D. No. 903

In this report all performance characteristics are given corresponding to the International System of Units.

The reference to the former used Technical System of Units is given by the following relations:

Forces	1 daN = 10 N	=	1,02 kp	or 1 kp	= 0,981 daN
Powers	1 kW	=	1,36 PS	or 1 PS	= 0,736 kW
Pressures	1 bar	=	1,02 kp/cm²	or 1 kp/cm²	= 0,981 bar
	1000 mbar	=	750,10 mm Hg		

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PRÜFUNGS-ABTEILUNG
KUBOTA L.245 DT

Test No. 84-92

Tractor manufacturer:	KUBOTA LTD. Naniwa-Ku, Osaka-Japan
Submitted for test by:	KUBOTA TRACTORS EUROPE 95101 Argenteuil, France
Selected by:	Manufacturer with agreement by DLG
Place of running-in:	Groß-Umstadt
Duration of running-in:	Engine and tractor appr. 37 hours

SPECIFICATION OF TRACTOR

Tractor

Make:	KUBOTA
Trade name:	L.245 DT
Type:	Wheel tractor, unit construction, all-wheel driven
Serial-No.:	71852

Engine

Make:	KUBOTA
Model:	DH.1101-A
Type:	Watercooled 4-stroke Diesel-engine whirl wheel chamber
Serial-No.:	32107
Cylinders:	3, in line, bore 76 mm, stroke 82 mm, displacement 1115 cm^3, compression ratio 21:1; replaceable dry cylinder liners
Valves:	Overhead
Fuel system:	Gravitational fuel feed system, NIPPON DENSO in line injection pump, ND-PFR 3M 55/1 ND (BOSCH "Mine K type"), manufacturer's production setting 23 mm^3/stroke at rated engine speed and full load; start of pump delivery 25 to 26° before TDC; NIPPON DENSO throttle type injection nozzles ND-DN 12 SD12, injection pressure 140 + 10 bar; TOKYO ROKI fuel filter with replaceable element; capacity of fuel tank 22 l

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Governor:	KUBOTA centrifugal variable speed type governor, governed range of engine speed 800 to 3060 1/min, rated engine speed 2800 1/min
Air cleaner:	NIPPON DONALDSON dry paper element filter with cyclone type pre-cleaner; air intake below engine bonnet
Exhaust silencer:	KUBOTA reflection type silencer, on the left hand side, 430 mm long, 85 mm dia, mouth showing rearwards, 370 mm above ground
Lubrication system:	Forced-feed with gear type pump, strainer in sump; filter in full flow with by-pass valve, replaceable; oil changing period 75 operating hours, cartridge oil changing period 150 operating hours oil capacity 6,1 l; specified oil quality and viscosities: API-CD or -CC above 25°C SAE 30 between 0°C and 25°C SAE 20 below 0°C SAE 10W or 10W/30
Cooling system:	Water cooling with centrifugal pump with by-pass and thermostat; overpressure-valve set to 0,9 bar; fan with 300 mm dia, 4 blades, V-belt driven; water capacity 6,6 l
Starting system:	Electrical NIPPON DENSO solenoid pre engaged-drive starter motor, 1,0 kW NIPPON TOKUSHU glow plugs in whirl chambers
Electrical equipment:	12 Volt, negative earth; NIPPON DENSO 3-phase alternator ND 02/000-8660, 12 V, 35 A; 1 lead acid battery, 70 Ah at 20 hours rating

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Transmission

Clutch: DAIKIN SEISAKUSHO
dry single disc type clutch, 215 mm dia, pedal operated

Gear box: KUBOTA
speed change gear box with 4 forward speeds and 1 reverse speed (1 and 4 collar shifted; 2, 3 and R sliding gear shifted);
range gear with 2 ranges (L and H), sliding gear shifted;
totally 8 forward and 2 reverse speeds

Total ratios and speeds (tyres 11.2 - 24)

Range	Gear	Total ratio engine to driving wheel	Nominal travelling speed *) at rated engine speed km/h
Forward			
L	1	429,98	1,26
	2	330,75	1,64
	3	230,44	2,36
	4	132,94	4,09
H	1	100,56	5,41
	2	77,35	7,03
	3	53,89	10,09
	4	31,09	17,49
Reverse			
L	R	252,93	2,15
H	R	59,15	9,19

*) calculated with the radius index 515 mm

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Rear axle and final drives:
KUBOTA
bevel gear drive;
bevel gear differential with pedal operated self disengaging lock;
spur gear final drives

Front axle and final drives:
KUBOTA
central driven, sliding gear shifted;
bevel gear drive with bevel gear differential without lock;
final drives with bevel gear drive, vertical shaft within steering knuckle and bevel gear drive

Transmission lubrication:
Transmission case including rear axle:
gear oil SAE 80 API GL-4 or
hydraulic oil HLP 23 l
Front axle differential left and right side:
gear oil SAE 90 API GL-4 each 1,1 l
Front axle final drives:
gear oil SAE 90 API GL-4 each 0,8 l
oil change every 300 operating hours

Power-take-off
At rear of tractor in tractor's median plane, 531 mm above ground, 164 mm behind rear axle centre line,
35 mm dia, 6 splines ISO 500/DIN 9611, type 1, dependent on main clutch;
3 speeds are selectable by hand lever:

540 1/min p.t.o.
622 1/min p.t.o. speed at rated engine speed
standard p.t.o. speed 540 1/min at engine speed 2430 1/min;

700 1/min p.t.o.
809 1/min p.t.o. speed at rated engine speed;

1000 1/min p.t.o.
1161 1/min p.t.o. speed at rated engine speed,
standard p.t.o. speed 1000 1/min at engine speed 2412 1/min;
direction of rotation clockwise, viewed facing driving end

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Power lift	KUBOTA hydraulic power lift, unit construction; draft and position control, floating position, lowering throttle, top link sensing
Hydraulic system:	Open centre system; gear type pump GPT 88 L, directly driven by engine; delivery 14 l/min at rated engine speed; oil filter in suction line, filter cleaning every 200 operating hours; control valve with maximum working pressure 137 + 5 bar; single acting cylinder with 75 mm bore and 89 mm stroke; hydraulic oil in common with transmission, see page - 7 -; no oil tappings
Implement linkage:	Three-point linkage, joint balls category 1 acc. to ISO 730/I; length of left lift rod adjustable to 362, 400 and 460 mm, length of right lift rod adjustable by crank handle; lifting range of lower links hitch points above ground: with short lift rods 305 mm to 695 mm with long lift rods 185 mm to 786 mm other dimensions see page - 22 -
Pull attachment	
Trailer hitch:	Height above ground adjustable to 385, 445, 505, 565 and 625 mm, distance of hitch hole centre to rear axle centre 444 mm, to p.t.o. shaft end 280 mm; hitch hole 32 mm dia; permissible vertical load 550 kg
Towing hitch:	None

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Steering	NIPPON SEIKO mechanical, ball and nut type, with single drag link on the left side of tractor and track rod
Brakes	
Parking lock:	Pulling handle with hook-interlock acting on pedals of service brake
Service brake:	KUBOTA pedal operated brake with mechanical transmission; wet full-disc brakes acting on the differential half shafts of the rear axle, with 1 lining disc on each side, disc diameter 210 mm Ø
Steering brake:	Divided pedal of foot brake, for normal use locked together
Wheels	
Steered wheels:	2 pneumatics at front BRIDGESTONE 7 - 16 4 ply, cross-ply type tyre casing; maximum permissible load per tyre 405 kg at 1,8 bar inflation pressure and 30 km/h; track width 1010 mm, non adjustable; rims 16 x 5 JA
Driving wheels:	At front and at rear; rear driving wheels: 2 pneumatics BRIDGESTONE 11,2 - 24 4 ply, cross-ply type tyre casing; maximum permissible load per tyre 820 kg at 1,2 bar inflation pressure and 30 km/h; track width 1045 mm, adjustable to 1130, 1225, 1310 and 1415 mm by adjustable-gauge bowl wheels; rims W24x9
Wheel base:	1555 mm
Roll-over-protective structure:	2-post frame of steel tube, mounted to the clutch housing, before driver

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Seat	Upholstered seat with backrest, parallelogram spring suspension, non adjustable; without shock absorber; height of unloaded seat above foot platform 540 mm, non adjustable; for and aft (about 60 mm) adjustable in 3 positions by screws
Number of grease points	13
Dimensions	Total length: 2710 mm without ballast 2905 mm with ballast
	Total width: 1310 mm without ballast 1590 mm with ballast
	Total height: 2120 mm to top of ROPS
	Ground clearance: 300 mm below front axle
Lighting equipment	Electrical 12 Volt, in acc. with French regulations

	Dimensions mm	Height above ground of centre mm	Distance from outside edge of tractor to centre mm
Head lights	110 dia	1025	506
Side lights	100 x 30	1195	185
Rear lights	100 x 30	1195	185
Reflectors	52 dia	880	180

Running-time meter	Mechanical, combined with tachometer, driven by camshaft of injection pump, reference engine speed for one really counted hour 2800 1/min

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TEST CONDITIONS

Track setting 1010 mm at front
1045 mm at rear

Weights

		without driver	with driver
Without ballast:	front	460 kg	470 kg
	rear	555 kg	615 kg
	total	1015 kg	1085 kg
Front ballast:	4 weights, total		100 kg
Rear ballast:	6 weights per wheel, total		324 kg
	water in the tyres		226 kg
With ballast:	front	600 kg	610 kg
	rear	1065 kg	1125 kg
	total	1665 kg	1735 kg

Fuels and lubricants used in tests

Fuel: ARAL Diesel-fuel DIN 51601
density at 15°C
during all tests 0,839 kg/l

Engine oil: REKTOL HD SAE 20W/20

Transmission oil: REKTOL 3.5/50 HLP
in gearbox with rear axle and hydraulic system

ESSO gear oil SAE 90
in front axle

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COMPULSORY TESTS

(1) MAIN POWER TAKE-OFF PERFORMANCE (540 rev/min)

Date of tests: 3rd May 1984
Location of tests: DLG-Testing-Station Groß-Umstadt
Type of dynamometer: SCHENCK hydraulic dynamometer U1-40

Power kW	Speed engine rev/min	Speed p.t.o. rev/min	Fuel consumption hourly l/h	Fuel consumption hourly kg/h	Fuel consumption specific g/kWh	Specific energy kWh/l
Maximum power						
At 2-hour test						
16.0	2800	622	5.74	4.82	301	2.79
At standard p.t.o. speed						
15.9	2430	540	5.43	4.56	287	2.92
At rated engine speed						
16.0	2800	622	5.74	4.82	301	2.79
Part loads, the governor hand lever in the position corresponding to the maximum power at full load (curve a)						
(i) 85% of the torque at maximum power at 2-hour test						
13.9	2857	635	5.04	4.23	305	2.75
(ii) unloaded						
-	3085	686	1.95	1.64	-	-
(iii) 50% of the load defined in (i)						
7.1	2926	650	3.36	2.82	395	2.12
(iv) maximum power						
16.0	2800	622	5.74	4.82	301	2.79
(v) 25% of the load defined in (i)						
3.6	2992	665	2.65	2.22	614	1.37
(vi) 75% of the load defined in (i)						
10.5	2882	640	4.11	3.45	328	2.56

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Power kW	Speed engine rev/min	Speed p.t.o. rev/min	Fuel consumption hourly l/h	Fuel consumption hourly kg/h	Fuel consumption specific g/kWh	Specific energy kWh/l
Part loads, the governor hand lever in the position corresponding to the standard p.t.o. speed at full load (curve b)						
(i) 85% of the torque at maximum power at standard p.t.o. speed						
12.6	2476	550	4.35	3.65	290	2.90
(ii) unloaded						
-	2687	597	1.60	1.34	-	-
(iii) 50% of the load defined in (i)						
6.5	2549	567	2.92	2.45	378	2.22
(iv) maximum power						
14.5	2430	540	4.91	4.12	284	2.95
(v) 25% of the load defined in (i)						
3.3	2607	579	2.23	1.87	564	1.49
(vi) 75% of the load defined in (i)						
9.6	2511	558	3.58	3.00	313	2.68

Standard specific fuel consumption (g/kWh): 305/395/279/378

No load maximum engine speed: 3085 rev/min
Equivalent crankshaft torque at maximum power (2 hours): 55 Nm
Maximum equivalent crankshaft torque: 71 Nm at 1500 rev/min of the engine

Mean atmospheric conditions:	temperature	20 °C
	pressure	988 mbar
	relative humidity	55 %
Maximum temperatures:	coolant	92 °C
	engine oil	92 °C
	fuel	19 °C
	engine air intake	21 °C

PRÜFUNGS-ABTEILUNG
KUBOTA L-245 DT

Zapfwellenleistung
P.t.o. performance

Test Nr. 84-92

Zapfwellenleistung P.t.o. power P_e kW

Kraftstoffverbrauch fuel consumption kg/h

M equiv

standard p.t.o. speed 540 1/min

Äquivalentes Drehmoment M equiv Nm
equiv. crankshaft torque

spez. Kraftstoffverbrauch b_e g/kWh
spec. fuel consumption

Pe

De

B

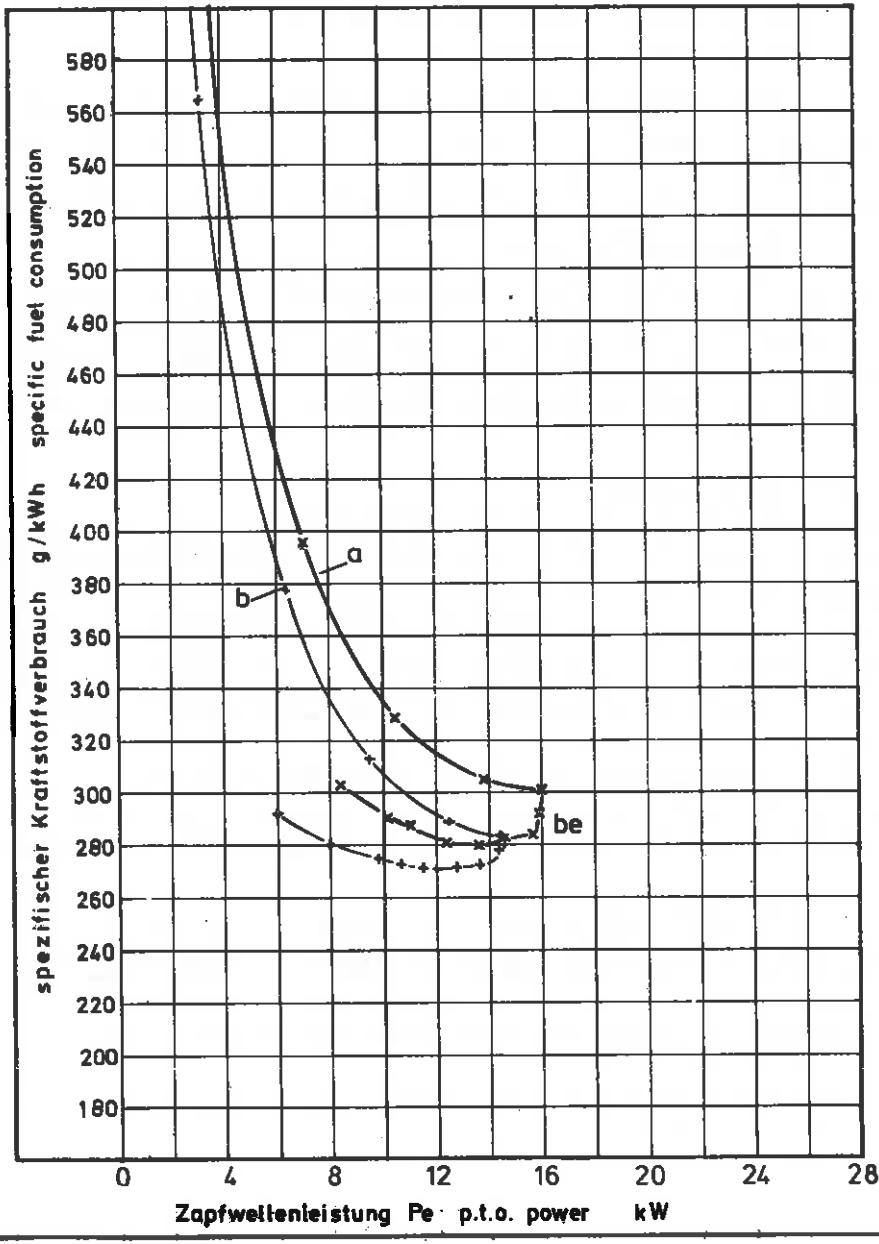
1000 1300 1600 1900 2200 2500 2800 3100

Motordrehzahl n engine speed rev/min

PRÜFUNGS-ABTEILUNG
KUBOTA L.245 DT

Zapfwellenleistung
- 15 -
P.t.o. performance

Test Nr. 84-92



PRÜFUNGS-ABTEILUNG
KUBOTA L.245 DT

(2) DRAWBAR PERFORMANCE

Date of tests: 10th till 17th May 1984
Type of track: Concrete

Gear no. and group	Driving speed km/h	Power kW	Drawbar pull daN	Engine speed 1/min	Slip of wheels %
(i) MAXIMUM POWER (unballasted) height of drawbar above ground 400 mm *)					
4 L	3,59	9,7	974	2862	15,0
1 H	4,65	12,7	983	2798	14,9
2 H	6,37	13,4	756	2799	10,6
3 H	9,51	13,5	511	2801	6,6
4 H	17,10	12,7	266	2803	3,4
(ii) MAXIMUM POWER (ballasted) height of drawbar above ground 390 mm *)					
1 L	1,14	4,3	1371	2948	15,0
2 L	1,45	5,6	1400	2911	15,0
3 L	2,06	8,0	1402	2876	15,1
4 L	3,54	12,6	1281	2796	13,3
1 H	4,95	12,6	915	2807	8,6
2 H	6,56	12,8	705	2800	6,6
3 H	9,62	12,6	470	2796	4,4
(iii) FIVE-HOUR-TEST at 75% of pull at maximum power in 1 H gear					
1 H	5,17	9,9	686	2862	6,4
(iv) FIVE-HOUR-TEST at pull corresponding to 15% wheel slip in test (ii)					
3 L	2,08	8,1	1402	2889	-

Total oil consumption during ten hours duration of tests (iii) and (iv) 2 g/h

*) No holed drawbar available; drawbar supplied by test station

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Tyre size front: 7 - 16 4 ply
rear: 11,2 - 24 4 ply

Tread bar height at the beginning of drawbar tests
86% at front, 89% at rear of the value when new

Specific fuel consumpt. g/kWh	Specific energy kWh/l	Temperatures Fuel °C	Coolant °C	Engine-oil °C	Atmospheric conditions Tempe-rature °C	Relative humidity %	Pressure mbar
tyre inflation pressure 0,8 bar at front, 1,0 bar at rear							
394	2,13	14	85	84	8	74	998
378	2,22	15	75	81	8	75	998
364	2,30	14	78	82	8	77	998
355	2,36	14	76	81	9	75	998
383	2,19	15	76	79	9	79	998
tyre inflation pressure 0,8 bar at front, 1,2 bar at rear							
581	1,44	26	74	80	17	76	980
506	1,66	17	75	80	15	79	980
434	1,93	17	79	82	15	86	980
381	2,20	25	81	83	18	76	980
381	2,20	25	74	84	18	76	980
374	2,25	27	77	84	18	75	980
381	2,20	27	81	85	15	74	980
393	2,13	30	78	87	18	75	994
-	-	25	76	84	15	84	986

Test (iv) was carried out with additional ballast,
the figures not quoted are therefore irrelevant

(3) TURNING SPACE AND TURNING CIRCLE

Wheel equipment front: 7 - 16 4 ply
rear: 11,2 - 24 4 ply

Track of wheels front: 1010 mm
rear: 1045 mm

Front wheel drive disengaged

	With brakes		Without brakes	
	left-hand m	right-hand m	left-hand m	right-hand m
Radius of turning space	2,79	2,75	3,09	3,05
Radius of turning circle	2,60	2,55	2,90	2,85

(4) LOCATION OF CENTRE OF GRAVITY

Height above ground	658 mm
Distance forward from rear axle centre	674 mm
Distance from tractor's median plane, to the left	2 mm

PRÜFUNGS-ABTEILUNG
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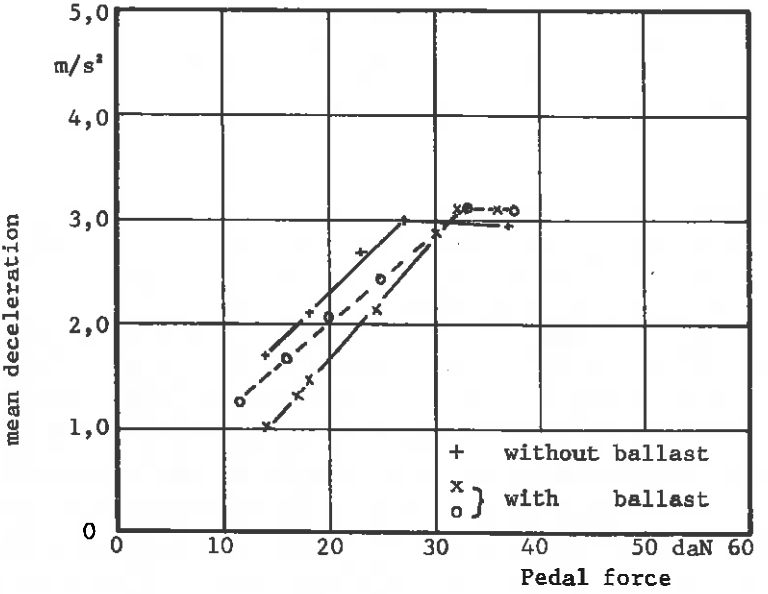
(5) Braking

Date of tests: 15th May 1984

Tractor masses during tests with driver:	front kg	rear kg	total kg
without ballast	470	615	1085
with ballast	610	1125	1735

A) Service brake Front wheel drive disengaged

Type-0-test (cold brakes) ——, Type-I-(fade)test – – –



Speed before application of brakes, without ballast 18,4 km/h
with ballast 17,9 km/h

The brakes were heated by towing of the tractor for 1 km

B) Parking brake

	Ballasted tractor on 18%-slope		Unballasted tractor on 12%-slope with trailer of 1085 kg	
	up	down	up	down
Braking device control force daN	20	19	17	16

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(6) MEASUREMENT OF EXTERNAL NOISE LEVEL +)

Date of test: 10th May 1984
Type of track: Concrete
Type of sound level meter: BRÜEL AND KJAER model 2203

Results of test

Gear: 4 H
Travelling speed before acceleration: 14,4 km/h
Sound level: 79,5 dB(A)

(7) NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of tests: 10th May 1984
Type of track: Concrete
Type of sound level meter: BRÜEL AND KJAER model 2209

With 2-post ROPS

Results of tests

Gear	Drawbar pull at which the tractor develops the maximum sound level daN	Travelling speed nominal km/h	Travelling speed effective km/h	Sound level dB(A)
1 L	953	1,26	1,16	87
2 L	945	1,64	1,50	88
3 L	930	2,36	2,11	87,5
4 L	971	4,09	3,56	89
1 H	976	5,41	4,64	90
2 H *)	749	7,03	6,35	91
2 H *)	light load	7,03	7,82	86,5
3 H	499	10,09	9,51	90,5
4 H +)	260	17,49	17,16	90,5
4 H +)	light load	17,49	17,91	87,5

+) Front wheel drive disengaged

*) The 2 H gear corresponds to the travelling speed nearest to 7,5 km/h

(8) POWER LIFT AND HYDRAULIC PUMP PERFORMANCE

Date of tests: 24th May 1984

Power Lift

	Height of lower hitch point above ground in down pos. mm	Vertical movement mm	Max. force exerted through full range daN	Corresp. pressure of hydraul. fluid bar	Moment about rear axle daNm	Max. tilt angle of mast over range of lift degrees
At hitch points	219	577	495	123	310	-
On the frame	219	895	320	123	-	27,5

Temperature of hydraulic fluid at start of test 45 °C *)

Lifting heights relative to horizontal lower links

mm	-360	-300	-262	-200	-100	±0	+100	+200	+300	+315	+400	+500	+535
Lifting forces at hitch points													
daN			495	535	595	640	675	710	735	715			
Lifting forces at test frame													
daN	370	410		420	440	445	440	440	430		405	370	320

Hydraulic Pump Performance, measured in the power lift circuit

Opening pressure of the relief valve	118 bar
Sustained pressure with relief valve open	142 bar
Pump delivery rate at minimum pressure, the governor control lever being set for max. power	16,3 l/min
Hydraulic power at 90% of relief valve setting	2,4 kW
Corresponding delivery rate	11,1 l/min
Pressure	128 bar
Temperature of hydraulic fluid	47 °C *)

Tapping point used for test: -

*) No higher temperature could be reached during tests

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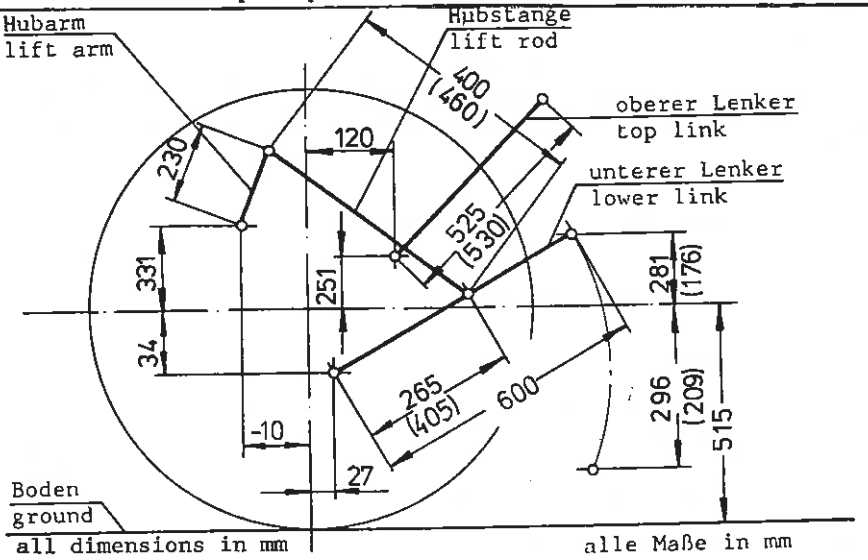
LINKAGE GEOMETRY when connected to the standard frame *)

Projected length in side view:

Lower links	600 mm	
Lift arms	230 mm	
Lift rods	400 mm	(460 mm)
Top link	525 mm	(530 mm)
Distance of lift rod connection point from pivot point of lower link	265 mm	(405 mm)

The following dimensions are given relative to the rear wheel centre line, situated 515 mm above ground:

Lower link pivot point	34 mm below,	27 mm behind
Top link pivot point	251 mm above,	120 mm behind
Lift arm pivot point	331 mm above,	10 mm behind
Maximum and minimum height of lower link hitch points	281 mm above, (176 mm above),	296 mm below (209 mm below)
Height of lower link hitch points when locked in transport position	281 mm above	(176 mm above)



*) Dimensions given in brackets are relevant to additional test,
see page - 27 -

PRÜFUNGS-ABTEILUNG
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Test No. 84-92

OPTIONAL TESTS

(9) ENGINE PERFORMANCE

Date of tests: 19th April 1984
Location of tests: DLG-Testing-Station Groß-Umstadt
Type of dynamometer: SCHENCK eddy-current dynamometer W 150

Power kW	Engine speed rev/min	Fuel consumption hourly l/h	Fuel consumption hourly kg/h	Fuel consumption specific g/kWh	Specific energy kWh/l
Maximum power					
At 2-hour test					
17.3	2800	5.78	4.85	280	3.00
At standard p.t.o. speed (540 rev/min)					
17.2	2430	5.46	4.58	267	3.15
At rated engine speed					
17.3	2800	5.78	4.85	280	3.00
Part loads					
(i) 85% of the torque at maximum power at 2-hour test					
15.0	2859	5.06	4.24	282	2.97
(ii) unloaded					
-	3052	1.81	1.52	-	-
(iii) 50% of the torque defined in (i)					
7.7	2921	3.30	2.76	360	2.33
(iv) maximum power					
17.3	2800	5.78	4.85	280	3.00
(v) 25% of the torque defined in (i)					
3.9	2990	2.52	2.11	537	1.56
(vi) 75% of the torque defined in (i)					
11.4	2879	4.12	3.46	304	2.76

Optimum fuel consumption: 255 g/kWh at 9.4 kW and 1540 rev/min
No load maximum engine speed: 3052 rev/min
Torque at maximum power (2 hours): 59 Nm
Maximum torque: 76 Nm at 1600 rev/min of the engine

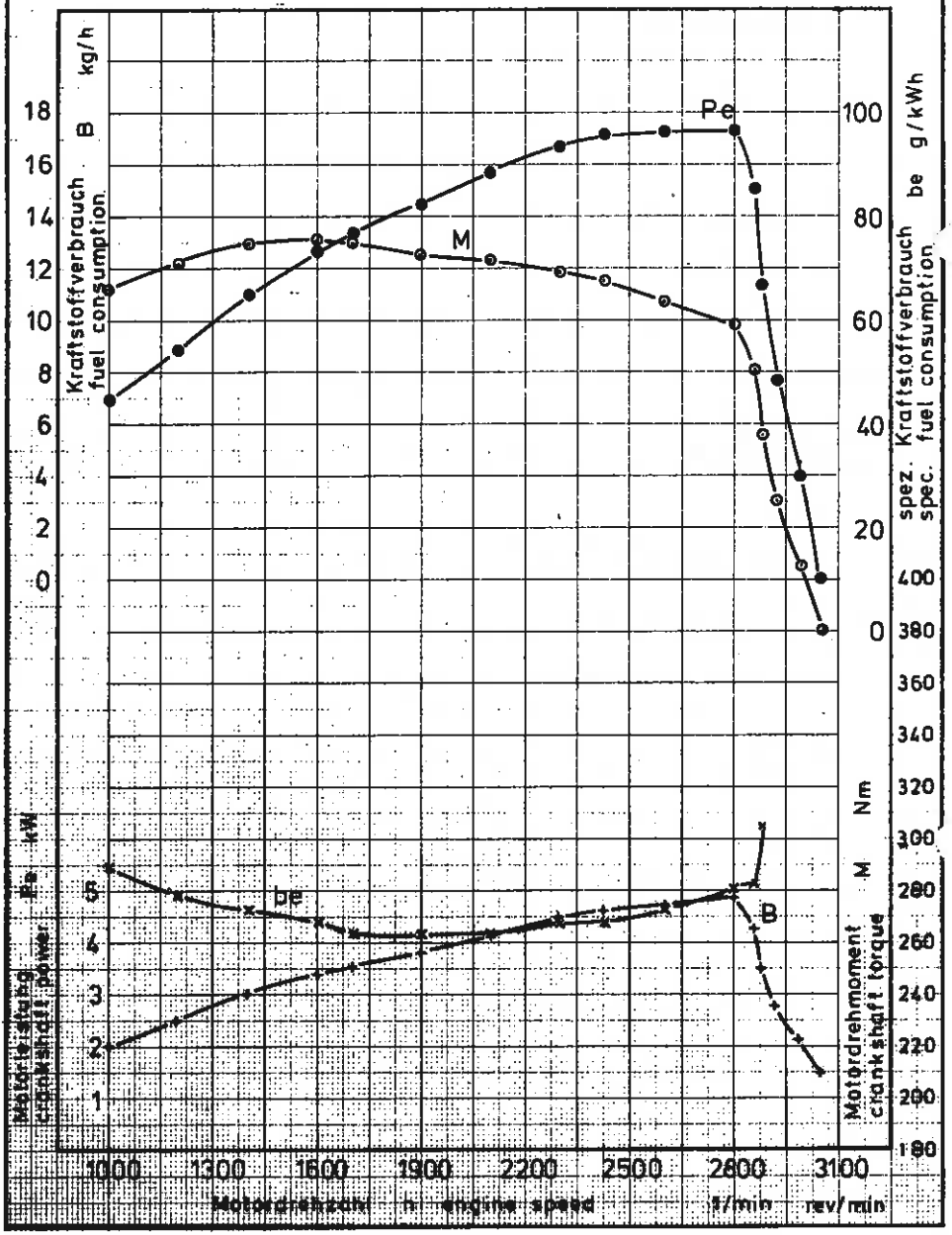
Mean atmospheric conditions:	temperature	20 °C
	pressure	1004 mbar
	relative humidity	35 %
Maximum temperatures:	coolant	85 °C
	engine oil	83 °C
	fuel	19 °C
	engine air intake	22 °C

PRÜFUNGS-ABTEILUNG

KUBOTA L.245 DT

Motorleistung
- 24 -
Engine performance

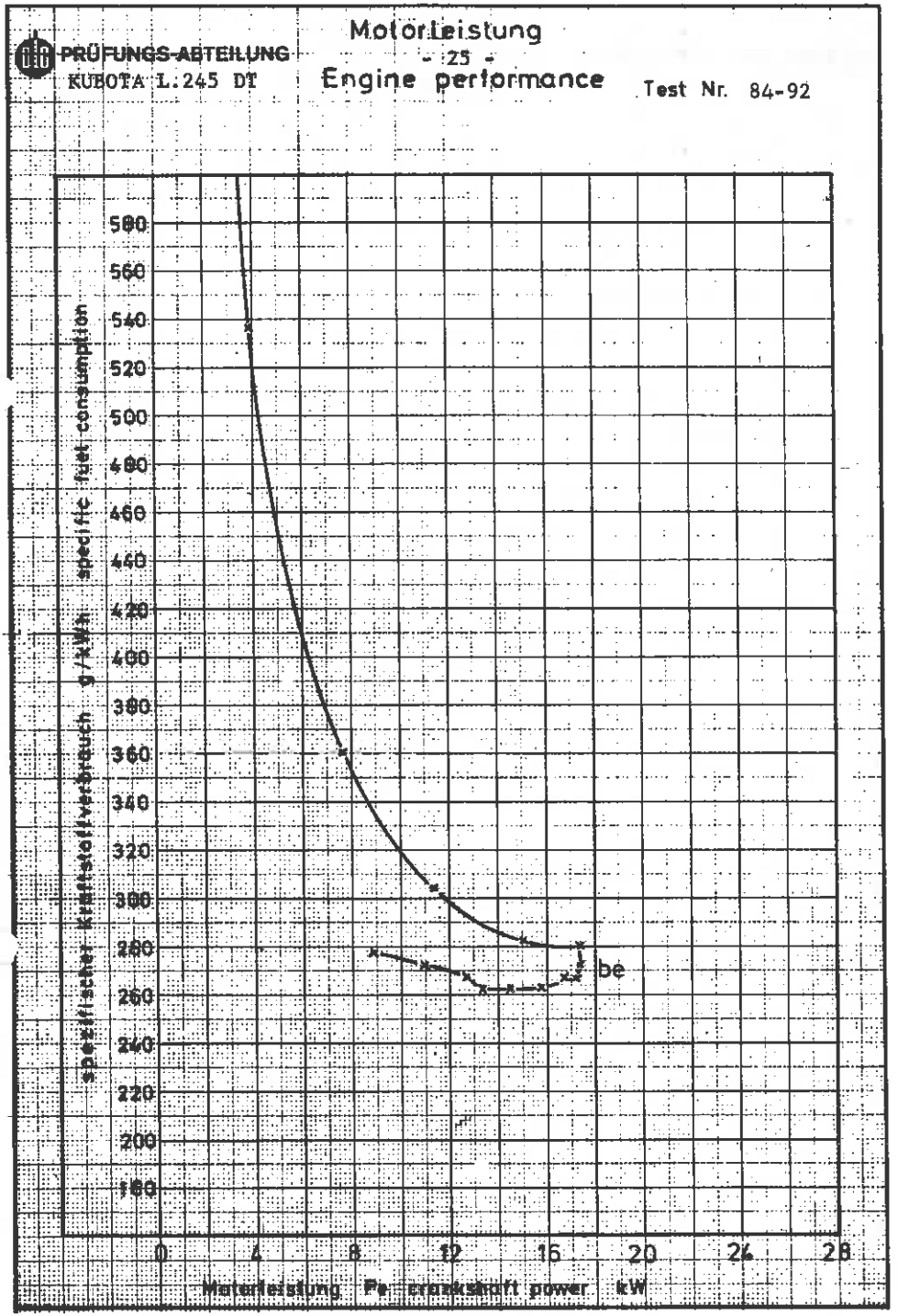
Test Nr. 84-92



PRÜFUNGS-ABTEILUNG
KUBOTA L.245 DT

Motorleistung
- 25 -
Engine performance

Test Nr. 84-92



PRÜFUNGS-ABTEILUNG
KUBOTA L 245 DT

Motorleistung
- 26 -
Engine performance

Test Nr. 84-92

Motorleistung in % der Leistung bei Nenndrehzahl

engine power in % of power at rated engine speed

Belastung in % des Drehmomentes bei Nenndrehzahl

load in % of torque at rated engine speed

Motordrehzahl in % der Nenndrehzahl engine speed in % of rated engine speed

PRÜFUNGS-ABTEILUNG
KUBOTA L.245 DT

Test No. 84-92

ADDITIONAL TESTS

(10) POWER LIFT WITH MODIFIED LINKAGE

Date of tests: 24th May 1984

Power Lift (Modified dimensions s.p.-22-: values given in brackets)

	Height of lower hitch point above ground in down pos. mm	Vertical movement mm	Max. force exerted through full range daN	Corresp. pressure of hydraul. fluid bar	Moment about rear axle daNm	Max.tilt angle of mast over range of lift degrees
At hitch points	306	385	855	123	536	-
On the frame	306	560	565	123		17

Temperature of hydraulic fluid at start of test 45 °C

Lifting heights relative to horizontal lower links

mm	-245	-200	-175	-100	±0	+100	+200	+210	+300	+315
Lifting forces at hitch points										
daN			855	955	1030	1055	1040	990		
Lifting forces at test frame										
daN	625	660		695	710	685	640		585	565

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Deutsche Landwirtschafts-Gesellschaft e. V. (DLG)
Fachbereich Landtechnik — Prüfungsabteilung —
Zimmerweg 16 (DLG-Haus)
D-6000 Frankfurt am Main 1