O.E.C.D.No.: 481
Printed: May 1975

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



DEUTZ-AGRICULTURAL TRACTOR D 6206

Manufactured by: KLÖCKNER-HUMBOLDT-DEUTZ AG
D-5000 Köln-Deutz

Date of Tests: November 1974 till February 1975

DLG-Testing Station for Agricultural Machinery
D-6114 Groß Umstadt

DEUTSCHE LANDWIRTSCHAFTS-GESELLSCHAFT e. V.
Prüfungsabteilung für Landmaschinen
D-6000 Frankfurt/Main 1, Zimmerweg 16

This bulletin is based on engineering tests in accordance with the O.E.C.D. STANDARD CODE for the Official Testing of Agricultural Tractors. It does not contain an evaluation of the performance of the tractor on practical work.

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

Date of Approval: 25th April 1975

Serial No.: 481

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

The relation with the former used Technical System of Units is given by the following formulas:

Forces:	1 N	= 0,102 kp	or	1 kp	= 9,81 N
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 = 750,1 mm Hg				

All rights including the right of translation, reprint and photomechanical copying -also of excerpts- reserved by DEUTSCHE LANDWIRTSCHAFTS GESELLSCHAFT e.V., D-6000 Ffm.1

Printed in Germany

PRÜFUNGS-ABTEILUNG
Deutz D 6206 Test No. 74-151

TABLE OF CONTENTS

	Page
Specification of tractor	4 to 11
Fuel and lubricants used in tests	12
COMPULSORY TESTS	
(1) Main power take-off performance	13 to 15
(2) Drawbar performance on a concrete track	16 and 17
(3) Turning space and turning circle	18
(4) Location of centre of gravity	18
(5) Braking performance	19
(6) Ambient noise, emitted by the tractor	20
(7) Noise at the driver's ear level	20
(8) Power lift and hydraulic pump performance	21 to 24
OPTIONAL TESTS	
(9) Engine performance	25 to 28

Tractor manufacturer:	KLÖCKNER-HUMBOLDT-DEUTZ AG D-5000 Köln-Deutz
Submitted for test by:	Manufacturer:
Selected by:	Manufacturer with agreement by DLG
Place of running-in:	Köln and Groß Umstadt
Duration of running-in:	Engine and tractor appr. 100 hours

SPECIFICATION OF TRACTOR

Tractor

Make:	KLÖCKNER-HUMBOLDT-DEUTZ AG
Model	D 6206
Type	Wheel type tractor, unit construction rear wheel driven
Serial No:	7561/0010

Engine

Make:	Own make
Model	F4L 912
Type	4-stroke Diesel engine with direct injection air cooled
Serial No:	5370329
Cylinders:	4, in line; bore 100 mm; stroke 120 mm; displacement 3768 cm^3; compression ratio 17:1;
Valves:	Overhead
Fuel system:	PIERBURG fuel feed pump PE 15252; BOSCH in line injection pump: PES 4 A 80 D 410/3 RS 1183; manufacturer's production setting 45 mm^3/stroke at rated engine speed and fuel load; injection timing 28° before TDC; BOSCH multihole injection nozzles DLLA 149 S 394; injection pressure 175 bar; MANN fuel filter with replaceable cartridge Capacity of fuel tank appr. 70 l
Governor:	BOSCH centrifugal variable speed type governor: EP/RSV 325-1150 A 8 B 657 DL; governed range of engine speed 650 to 2430 rev/min; rated engine speed 2300 rev/min

Air cleaner:	Own make in cooperation with MANN UND HUMMEL; DEUTZ SICCOPUR dry paper element filter with precleaner, replaceable cartridge and maintenance indicator
Exhaust silencer:	Own make; 2-chamber expansion type silencer; 125 mm diameter, 460 mm long; situated on the left hand side of clutch case; mouth showing rearward
Lubrication system:	Forced feed from gear type pump; strainer in sump; MANN oil filter in full flow with by-pass valve; replaceable cartridge; oil capacity 9,5 liter; oil changing period 100 till 200 hours when using HD-S1-oil or 200 till 240 hours when using HD-B-oil; recommanded oil viscosities: winter SAE 10 W summer SAE 20 W/20 tropics SAE 30
Cooling system:	Air cooling with axial blower; V-belt driven
Starting system:	Electrical; BOSCH starter motor JD 12 V 2,2 kW; BOSCH flame plug in intake pipe
Electrical equipment:	12 Volt negative earth; BOSCH 3-phase alternator: G 1 RL 14 V 28 A 22; 1 lead acid battery 110 Ah at 20 hours rating

Transmission

Clutch:	LAMELLEN UND KUPPLUNGSBAU GmbH; independent dry dual disc type clutch: DT 280/250 G; driving part pedal operated; p.t.o. part hand lever operated

PRÜFUNGS-ABTEILUNG
Deutz D 6206 Test No. 74-151

Gear box:	Own make; TW 50.3; speed change gear with 4 forward speeds; all speeds synchronized; group gear with 3 forward groups (creep speed, slow and fast group) and 1 reverse group; slow and fast group pin coupling shifted; creep speed and reverse group sliding gear shifted; total 12 forward and 4 reverse speeds
Rear axle and final drive:	Bevel gear with crown wheel and pinion; bevel gear type differential with lock fitted; pedal operated, self disengaging; spur gear final drive
Oil capacity:	Speed change gear, group gear, rear axle and final drives total 16 l
Oil changing period:	1000 hours or yearly
Oil viscosity:	Transmission oil SAE 90

Total ratios and speeds see page 7

Power take-off	Independent p.t.o.; driven through the hand lever operated clutch disc; engageable and disengageable by hand lever; at rear of tractor; 648 mm above ground, in tractor median plane; 600 rev/min at rated engine speed; p.t.o. standard speed 540 rev/min at 2070 rev/min engine speed; 29 x 34,9 x 8,7 mm = 1 3/8"; 6 splines; (DIN 9611 Form A; BS 1495; ASAE S. 203.7); p.t.o.-speeds may be set by aid of tractormeter; direction of rotation clockwise (viewed from tractor rear)

PRÜFUNGS-ABTEILUNG
Deutz D 6206 Test No. 74-151

Total ratios and speeds

Group	Gear	Total ratio engine:driving wheel	Nominal travelling speed at rated engine speed *) km/h	m/s
Creep group	1	1334,17	0,46	0,128
	2	839,10	0,74	0,204
	3	574,60	1,07	0,298
	4	352,42	1,75	0,486
Slow group	1	271,13	2,28	0,632
	2	170,52	3,62	1,005
	3	116,77	5,28	1,467
	4	71,62	8,61	2,392
Fast group	1	94,16	6,55	1,820
	2	59,22	10,42	2,893
	3	40,55	15,21	4,225
	4	24,87	24,80	6,889
Reverse group	1	239,61	2,57	0,715
	2	150,70	4,09	1,137
	3	103,19	5,98	1,660
	4	63,29	9,75	2,707

*) calculated with the rolling circumference of 4470 mm according to WdK 154

Belt pulley Not fitted on tractor tested;
driving device attached to p.t.o.-shaft;
engaged by p.t.o.-hand lever;
320 mm diameter, 140 mm width;
1255 rev/min at rated engine speed;
linear belt speed 21,02 m/s;
standard belt speed at 2287 rev/min engine speed;
direction of rotation anticlockwise
(viewed from the right hand side of tractor)

Power lift

Own make;
K 45;
DEUTZ-TRANSFERMATIC-System;
hydraulic power lift unit construction;
draught control, position control, floating position;
single acting ram; bore 80 mm, stroke 152 mm;
overpressure relief valve for ram adjusted
to 200 bar;
BOSCH gear type pump HY/ZFR 1/11 CL (212/1);
oil delivery rate 11 cm^3/revolution;
directly driven by engine;
DEUTZ control valve;
maximum oil pressure 175 bar;
up to 4 single acting or 3 double acting
DEUTZ control valves with oil tappings for external
rams, or suitable combinations of the control
valves optional available;
hydraulic linkage lock for transport;
oil tank with 12 l capacity incorporated
in lift unit;
(optional: additional oil tank with 15 l
capacity available);
6 l (when using additional tank total 20 l)
oil may be taken off through oil tappings;
oil changing period 1000 hours or yearly

Implement linkage:

Three point linkage category II (DIN 9674);
2 holes in the lower links for fitting the
lift rods:
hole no.1: in 564 mm
hole no.2: in 636 mm distance from the
lower links pivot points;
lift rods length adjustable when using
hole no.1: from 610 to 725 mm
hole no.2: from 610 to 740 mm;
lifting range above ground when using
hole no.1:
with lift rods short from 310 to 932 mm
with lift rods long from 50 to 748 mm
hole no.2:
with lift rods short from 430 to 965 mm
with lift rods long from 158 to 780 mm

Holed bar: Fitted on clevis of lower links;
centre hole and 3 holes on either side with 80 mm distance each;
all holes 33 mm diameter;
height above ground adjustable by power lift from 65 to 980 mm depending from lift rods length and fixing on the lower links, measured at the surfase of the holded bar;
in standard height 450 mm above ground mechanically-hydraulically fixable with lift rods length 670 mm
distance of centre hole with lower links in horizontal position
from rear axle centre 993 mm
from p.t.o. shaft 590 mm

Trailer hitch: Height above ground changeable by shifting and turning hitch in 6 steps:
620, 690, 750, 815, 820 and 885 mm;
hitch hole diameter 33 mm;
distance of hitch hole centre to rear axle centre 584 mm;
permissible bearing load 1000 kg

Towing hitch: 680 mm above ground

Steering: ZAHNRADFABRIK FRIEDRICHSHAFEN AG;
ZF-Gemmer steering GD 28 a;
model 73
operated by hand wheel

Brakes

Parking brake: Simplex internal shoe type brake;
mechanically acting on one external brake drum with 180 mm diameter on an intermediate gear shaft;
operated by hand lever with ratchet

Foot brake: Encased dry disc type brake;
mechanically acting on 2 discs on both differential half shafts on either side;
active brake disc diameter 193 mm;
pedal operated

Steering brake: Divided pedal of foot brake;
for normal use locked together

PRÜFUNGS-ABTEILUNG
Deutz D 6206

Test No. 74-151

Wheels

Steering wheels:	2 pneumatics in front 7,50-18 AS Front 6 ply; max. permissible weight on each tyre 930 kg at 2,25 bar inflation pressure and 25 km/h; track width from 1490 to 1890 mm in steps of 100 mm each; changeable by extending telescopic half axles; rims 5,50 F x 18
Driving wheels:	2 pneumatics at rear 16,9-30 AS 6 ply; max. permissible weight on each tyre 2030 kg at 1,3 bar inflation pressure and 25 km/h; track widths 1513, 1635, 1735, 1828 and 1928 mm; changeable by turning wheels and offset lug type rims; rims W 14 L x 30
Wheel base:	2125 mm
Other wheels:	Available are: Steering wheels: 7,50-16 Driving wheels : 12,4 -36; 12,4-38, 13,6-36 (all wheels 6 ply)

Weights

Ready for use as tested

without ballast:		without driver	with driver
	front:	855 kg	860 kg
	rear:	1372 kg	1445 kg
	total:	2227 kg	2305 kg
front ballast:	11 front weights 22 kg each		242 kg
rear ballast:	12 weights per wheel 40 kg each		960 kg
	water in the tyres		489 kg
with ballast:	front:	1176 kg	1178 kg
	rear:	2742 kg	2818 kg
	total:	3918 kg	3996 kg

Seat

GRAMMER;
DS 20/ D 3 H;
upholstered seat with back rest;
adjustable spring with shock absorber;
height of seat platform above ground 710 mm;
height of seat above platform appr. 620 mm in medium position, not compressed;
adjustable on inclined guideways 150 mm to and fro and simultanously 90 mm up and down, additional independent height adjustment in the range of 125 mm in 9 steps

Number of grease points 14

Dimensions

Total length: 3600 mm with 3 point linkage without ballast
3765 mm with 3 point linkage with ballast

Total width: 1835 mm at smallest track width
2345 mm at largest track width
both without ballast

Total height: 1690 mm to top of steering hand wheel

Ground clearance: 390 mm in tractor median plane

Lighting equipment Electric 12 Volt
acc. to German governmental regulations

	Dimensions mm	Height above ground to centre mm	Distance from outside edge of tractor to centre mm ***)
Head lights	130 Ø	965	765
Side lights *)	85 x 90	1705	230
Rear lights **)	85 x 90	1520	240
Reflectors	75 Ø	1035	70

*) in combination with direction indicator
**) in combination with direction indicator and stop light
***) at 1513 mm track width

PRÜFUNGS-ABTEILUNG

Deutz D 6206

Test No. 74-151

FUELS AND LUBRICANTS USED IN TESTS

Fuel:	ARAL-Diesel fuel (DIN 51601) specific gravity at 15°C during engine tests: 0,836 kg/l during p.t.o. tests: 0,837 kg/l during drawbar tests: 0,832 kg/l
Engine oil:	SHELL-ROTELLA SX 20 W/20
Transmission oil:	SAE 90
Hydraulic oil:	Engine oil HD 20W/20

PRÜFUNGS-ABTEILUNG
Deutz D 6206

Test No. 74-151

COMPULSORY TESTS

(1) MAIN POWER TAKE-OFF PERFORMANCE

Date of tests: 8th November 1974
Type of dynamometer: Schenck hydraulic dynamometer U1-40

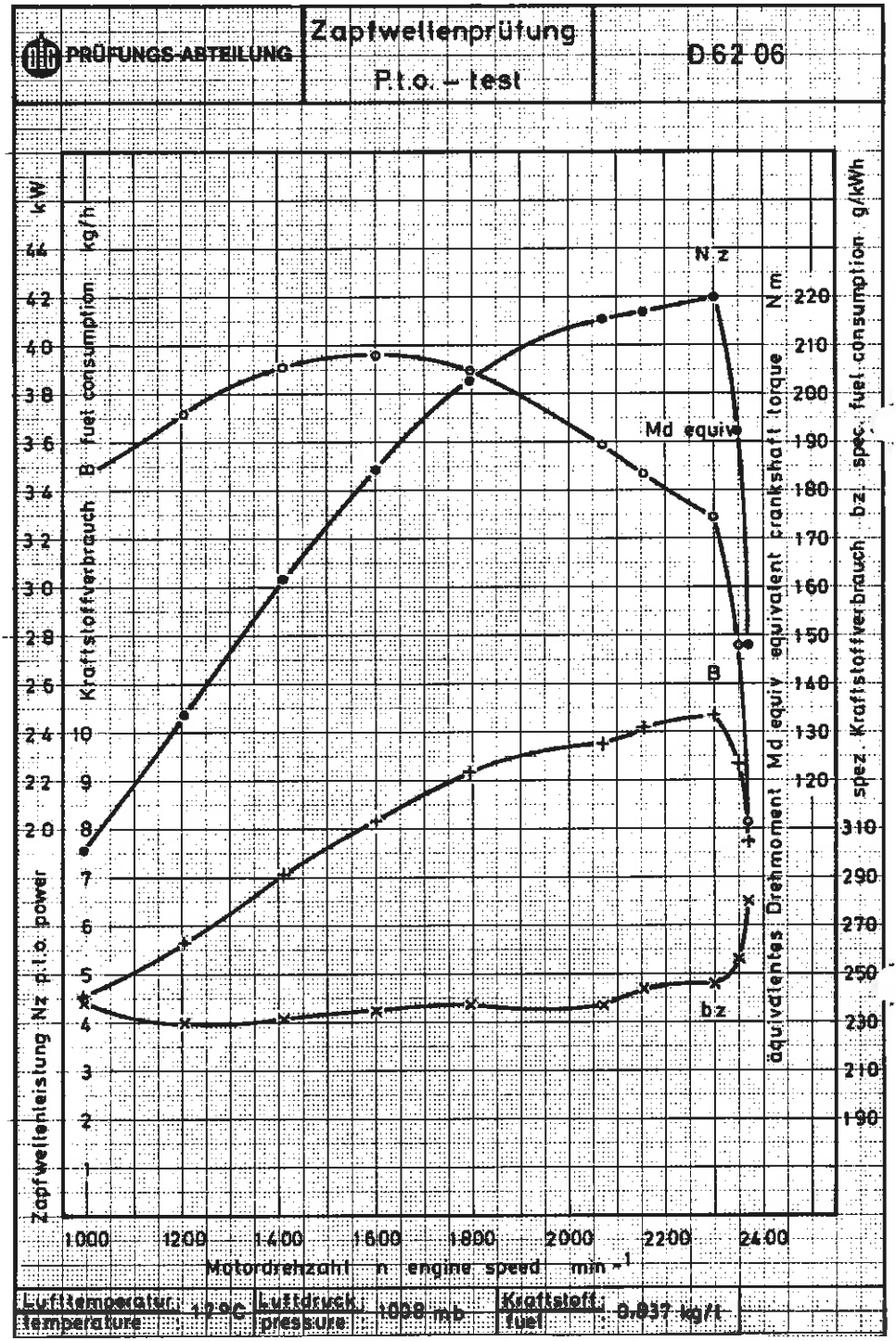
Maximum power

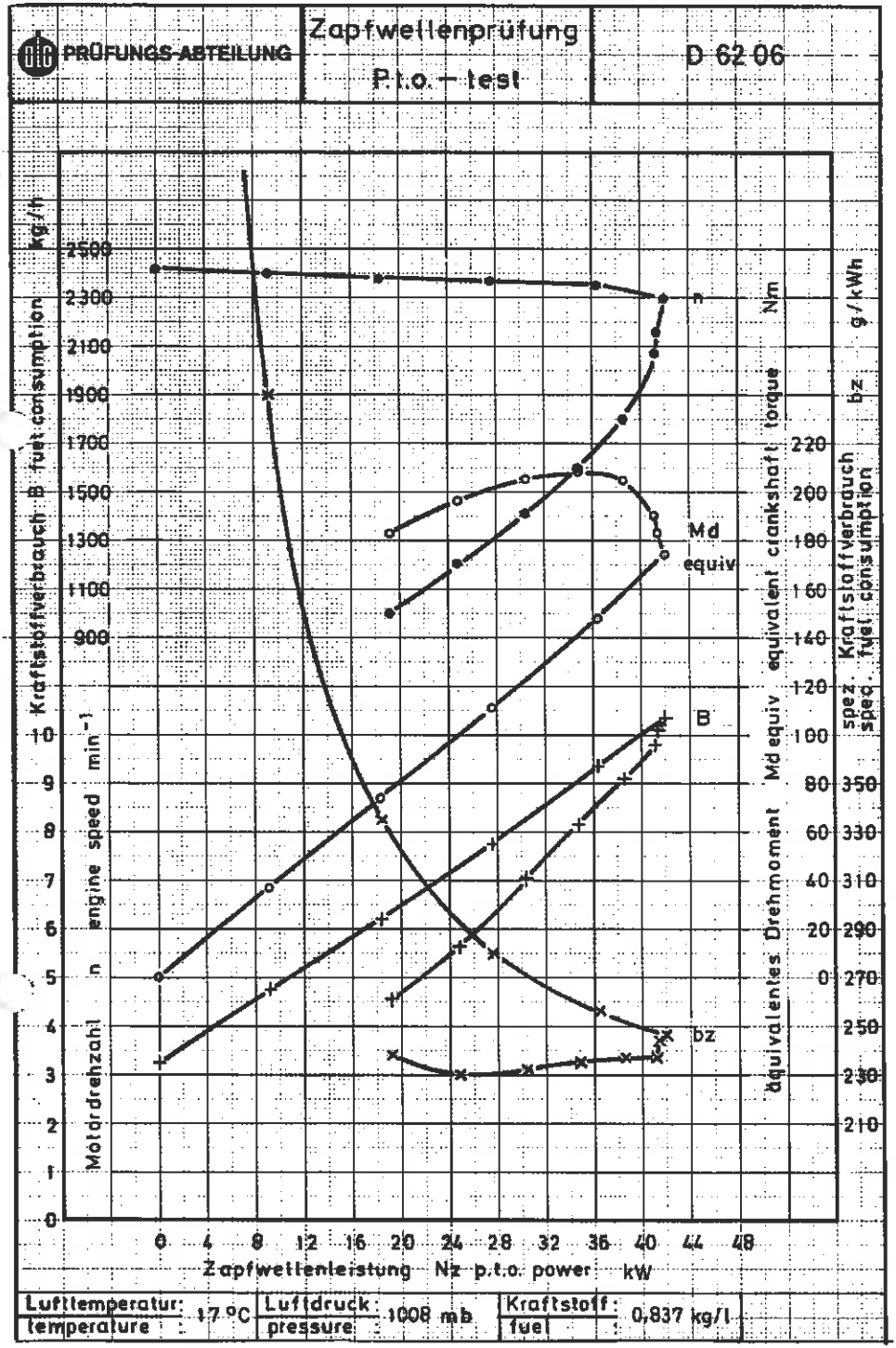
Power	Speed		Fuel consumption			Specific
	engine	p.t.o.	total		specific	energy
kW	rev/min	rev/min	l/h	kg/h	g/kWh	kWh/l
At maximum power 2-hour test						
42,0	2300	600	12,35	10,34	246	3,40
At standard p.t.o. speed (540 rev/min)						
41,1	2070	540	11,67	9,77	237	3,52
At the speed recommended for drawbar work						
42,0	2300	600	12,35	10,34	246	3,40
Part loads						
(i) 85 % of the torque at maximum power						
36,5	2351	613	11,16	9,34	256	3,23
(ii) unloaded						
-	2425	633	3,87	3,24	-	-
(iii) 50 % of the load defined in (i)						
18,5	2382	621	7,40	6,19	335	2,50
(iv) maximum power						
42,0	2300	600	12,35	10,34	246	3,40
(v) 25 % of the load defined in (i)						
9,3	2400	626	5,66	4,74	510	1,64
(vi) 75 % of the load defined lin (i)						
27,6	2368	618	9,24	7,73	280	2,99

No load maximum engine speed: 2425 rev/min
Equivalent crankshaft torque at maximum power: 174 Nm
Maximum equivalent crankshaft torque: 208 Nm at 1600 rev/min of the engine

Mean atmospheric conditions:
- temperature 17°C
- pressure 1008 mbar
- relative humidity 50 %

Maximum temperatures:
- coolant not recorded
- engine oil 95°C
- fuel 18°C


PRÜFUNGS-ABTEILUNG
Zapfwellenprüfung
P.t.o. – test
D 62 06
Zapfwellenleistung Nz p.t.o. power kW
Kraftstoffverbrauch B fuel consumption kg/h
äquivalentes Drehmoment Md equiv equivalent crankshaft torque Nm
spez. Kraftstoffverbrauch bz spec. fuel consumption g/kWh
Nz
Md equiv
B
bz
1000 1200 1400 1600 1800 2000 2200 2400
Motordrehzahl n engine speed min -1
Lufttemperatur temperature 17 °C
Luftdruck pressure 1000 mb
Kraftstoff fuel 0,837 kg/l


PRÜFUNGS-ABTEILUNG
Zapfwellenprüfung
P.t.o. – test
D 62 06
Kraftstoffverbrauch fuel consumption kg/h
Motordrehzahl engine speed n min⁻¹
äquivalentes Drehmoment Md equiv equivalent crankshaft torque Nm
spez. Kraftstoffverbrauch spec. fuel consumption bz g/kWh
n
Md equiv
B
bz
Zapfwellenleistung Nz p.t.o. power kW
Lufttemperatur temperature : 17 °C
Luftdruck pressure : 1008 mb
Kraftstoff fuel : 0,837 kg/l

PRÜFUNGS-ABTEILUNG
Deutz D 6206

Test No. 74-151

(2) DRAWBAR PERFORMANCE

Date of test: 11th and 24th till 26th February 1975
Type of track: Concrete

Gear No. and Group	Speed km/h	Power kW	Drawbar pull N	Engine speed rev/min	Slip of wheels %	Specific energy kWh/l
(i)	MAXIMUM POWER with ballast height of drawbar above ground 530 mm					
1 creep	0,40	4,1	36600	2413	14,8	0,82
2 creep	0,64	6,5	36600	2407	14,9	1,18
3 creep	0,93	9,5	36600	2397	15,0	1,47
4 creep	1,50	15,2	36550	2379	15,0	1,97
1 slow	1,94	19,6	36420	2369	15,0	2,28
2 slow	3,04	30,8	36550	2344	15,0	2,62
3 slow	4,59	35,8	28200	2301	10,8	2,87
1 fast	5,79	37,4	23330	2299	8,6	2,82
4 slow	7,82	37,3	17150	2300	6,0	2,95
2 fast	9,57	37,7	14200	2302	5,0	2,98
3 fast	14,20	36,9	9350	2301	3,2	2,92
(ii)	FIVE-HOUR-TEST at 75 % of pull at maximum power in 1st gear of fast group					
1 fast	6,09	39,6	17550	2355	6,0	2,82
(iii)	FIVE-HOUR-TEST at pull corresponding to 15 % wheel slip in test (i)					
2 slow	-	-	36600	2342	-	-
(v)	MAXIMUM POWER without ballast height of drawbar above ground 620 mm					
2 slow	3,12	19,6	22620	2386	15,0	2,34
3 slow	4,50	28,2	22620	2359	15,0	2,62
1 fast	5,49	35,0	22920	2334	15,0	2,82
4 slow	7,48	37,0	17700	2300	10,7	2,94
2 fast	9,30	37,4	14460	2301	8,3	3,00
3 fast	13,97	37,3	9610	2300	5,4	2,99

Total oil consumption during ten hours duration of tests (ii) and (iii): 39 g/h

PRÜFUNGS-ABTEILUNG
Deutz D 6206

Test No. 74-151

Tyres make front: DUNLOP 7,50-18 AS FRONT 6 ply
and size rear: DUNLOP 16,9 -30 AS 6 ply

Specific fuel consumpt. g/kWh	Temperatures Fuel °C	Coolant °C	Engine oil °C	Atmospheric conditions Tempe-rature °C	Relative humidity %	Pressure mbar
tyre inflation pressure 1,3 bar active tyre radius under static load 688 mm						
1009	11	-	71	5	84	1018
708	12	-	65	3	92	1017
551	12	-	85	3	92	1017
419	14	-	74	8	75	1018
363	15	-	72	9	76	1018
318	15	-	84	9	75	1018
282	13	-	86	6	96	1019
292	12	-	80	4	96	1019
281	12	-	86	4	97	1019
278	12	-	86	4	96	1019
283	13	-	85	5	96	1019
292	12	-	80	6	90	1025
-	12	-	72	4	90	1025
tyre inflation pressure 1,0 bar active tyre radius under static load 684 mm						
356	14	-	70	6	97	1003
318	15	-	70	4	99	1003
294	14	-	70	6	98	1003
282	13	-	70	6	93	1003
278	14	-	75	6	98	1002
278	13	-	78	7	98	1002

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

PRÜFUNGS-ABTEILUNG
Deutz D 6206

Test No. 74-151

(3) TURNING SPACE AND TURNING CIRCLE

Wheel equipment front: 7,50-18 AS Front 6 ply
rear: 16,9 -30 AS 6 ply

Track of wheels front: 1490 mm
rear: 1513 mm

	With brakes		Without brakes	
	left-hand m	right-hand m	left-hand m	right-hand m
Radius of turning space	3,85	3,61	4,31	3,99
Radius of turning circle	3,71	3,47	4,17	3,85

(4) LOCATION OF CENTRE OF GRAVITY

Height above ground	798 mm
Distance forward from the vertical plane containing the axis of the rear wheels	799 mm
Distance of the median plane of the tractor	0 mm

PRÜFUNGS-ABTEILUNG
Deutz D 6206

Test No. 74-151

(5) BRAKING PERFORMANCE

A) FOOT BRAKE

Date of tests: 18th and 21st February 1975
Type of track: Concrete
Type of decelerometer: MOTO METER-Bremsverzögerungs- und Pedalkraftschreiber

Weight of ballasted tractor: 3996 kg with driver

Cold brakes

		with ballast	without ballast
Travelling speed	km/h	25,0	25,0
Deceleration	m/s^2	4,7	4,2
Stopping distance	m	5,4	5,8
Force on pedal	N	785	264
Force on pedal to achieve a deceleration of 2,5 m/s^2	N	235	147

Brake fade characteristics (hot tests)

			with ballast	without ballast
Deceleration	hot/cold	%	104	102
Stopping distance	cold/hot	%	100	100
Force on pedal	cold/hot	%	100	107

B) PARK BRAKE

Tractor facing up slope:
Pull on hand brake 160 N, tractor does not roll

Tractor facing down slope:
Pull on hand brake 180 N, tractor does not roll

(6) AMBIENT NOISE EMITTED BY THE TRACTOR

Date oft test: 11th February 1975
Type of track: Concrete
Type of sound level meter: Brüel and Kjaer type 2203

Results of test

Gear: 4th fast
Travelling speed before acceleration: 18,7 km/h
Sound level: 88 dB(A)

(7) NOISE AT THE DRIVER'S EAR LEVEL

Date of tests: 17th February 1975
Type of track: Concrete
Type of sound level meter: Brüel and Kjaer type 2607
Type of frequency analyser: Brüel and Kjaer type 1614 (fitted with octave filter)

No cab or frame fitted on tractor

Results of tests

Gear	Drawbar pull at which the tractor develops the maximum sound level	Travelling speed nominal	Travelling speed effective	Sound level
	N	km/h	km/h	dB(A)
1 slow	22860	2,28	1,86	94,5
2 slow	22630	3,62	2,50	95,5
3 slow	21850	5,28	4,05	96,5
1 fast *)	22650	6,55	5,08	96
4 slow	17130	8,61	7,48	96,5
2 fast	14320	10,42	9,26	96
3 fast	9610	15,21	14,00	96
4 fast	light load	24,80	25,70	94

*) The 1st fast gear corresponds to the travelling speed nearest to 7,5 km/h

PRÜFUNGS-ABTEILUNG
Deutz D 6206

Test No. 74-151

(8) POWER LIFT AND HYDRAULIC PUMP PERFORMANCE

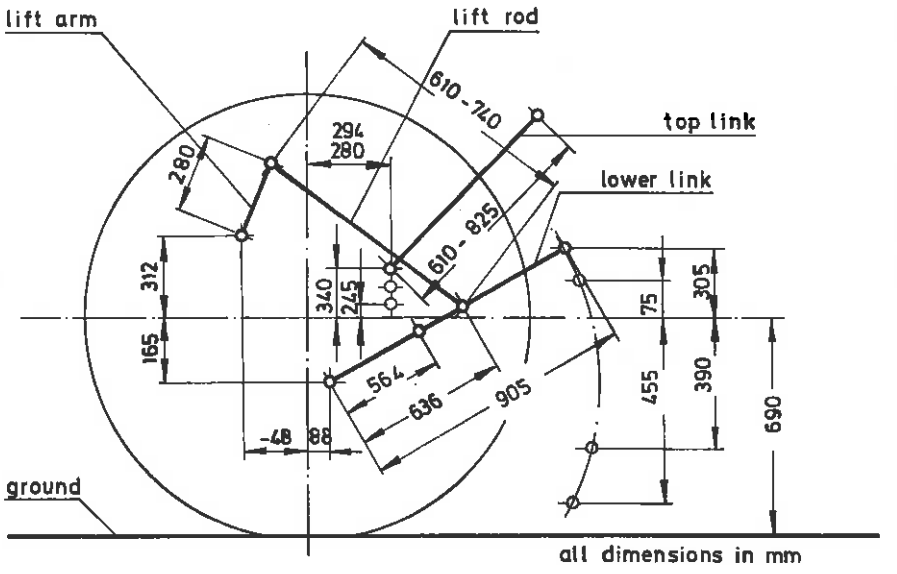
Date of tests: 25th November 1974

HYDRAULIC PUMP

(1) Opening pressure of relief valve in remote circuit	178 bar
Sustained pressure by open relief valve	175 bar
(2) Pump delivery rate at minimum pressure and maximum engine speed	28,93 l/min
(3) Pump delivery rate	27,35 l/min
delivery pressure	162 bar
Hydraulic Power	7,38 kW

POWER LIFT

Dimensions of linkage geometry for the table on page 24



PRÜFUNGS-ABTEILUNG

Deutz D 6206

Test No. 74-151

LIFTING FORCES

Lifting heights relative to horizontal lower links

mm	-475	-400	-300	-290	-225	-200	-100	-95
at hitch points maximum mechanical advantage								
N								21200
minimum mechanical advantage								
N	14220	14620	15030			15090	15030	

Max. force exerted troughout the whole range 18600 N

Force at which front of tractor lifts with maximum allowable front ballast - N

at test frame	maximum mechanical advantage							
N				22430		20300	19020	
minimum mechanical advantage								
N					15210	15300	15350	

Max. force exerted troughout the whole range 15090 N

Force at which front of tractor lifts with maximum allowable front ballast 15320 N

PRÜFUNGS-ABTEILUNG
Deutz D 6206

Test No. 74-151

0	+100	+200	+223	+240	+300	+400	+440	+470

lift rods 610 mm long

20850	20440	19630			19030	18720	18600	

lift rods 725 mm long

14950	15030	15180	15310					

lift rods 740 mm long

17810	16680	16090		15900				

lift rods 610 mm long

15000	14350	13870			13180	12590		12040

All values of forces for pressure at max. hydraulic power 162 bar, see page 21; calculated from measurements at max. oil pressure 175 bar

LINKAGE GEOMETRY whenn connected to the standard frame	Maximum mechanical advantage	Minimum mechanical advantage
Projected length in side views:		
Lower links	905 mm	905 mm
Lift arms	280 mm	280 mm
Lift rods	740 mm	610 mm
Top link	700 mm	715 mm
Distance of lift rod connection point from pivot point of lower link	636 mm	564 mm
The following dimensions are given relative to rear axle centre line 690 mm above ground		
Lower link pivot point	88 mm behind, 165 mm below	88 mm behind, 165 mm below
Top link pivot point	294 mm behind, 340 mm above	280 mm behind, 245 mm above
Lift arm pivot point	48 mm behind, 312 mm above	48 mm behind, 312 mm above
Maximum and minimum height of lower link hitch points	75 mm above, 455 mm below	305 mm above, 390 mm below
Height of lower link hitch points when locked in the highest transport position	965 mm above ground	748 mm above ground

PRÜFUNGS-ABTEILUNG
Deutz D 6206

Test No. 74-151

OPTIONAL TESTS

(9) ENGINE PERFORMANCE

Date of tests: 4th and 5th November 1974
Type of dynamometer: Schenck eddy current dynamometer W 150

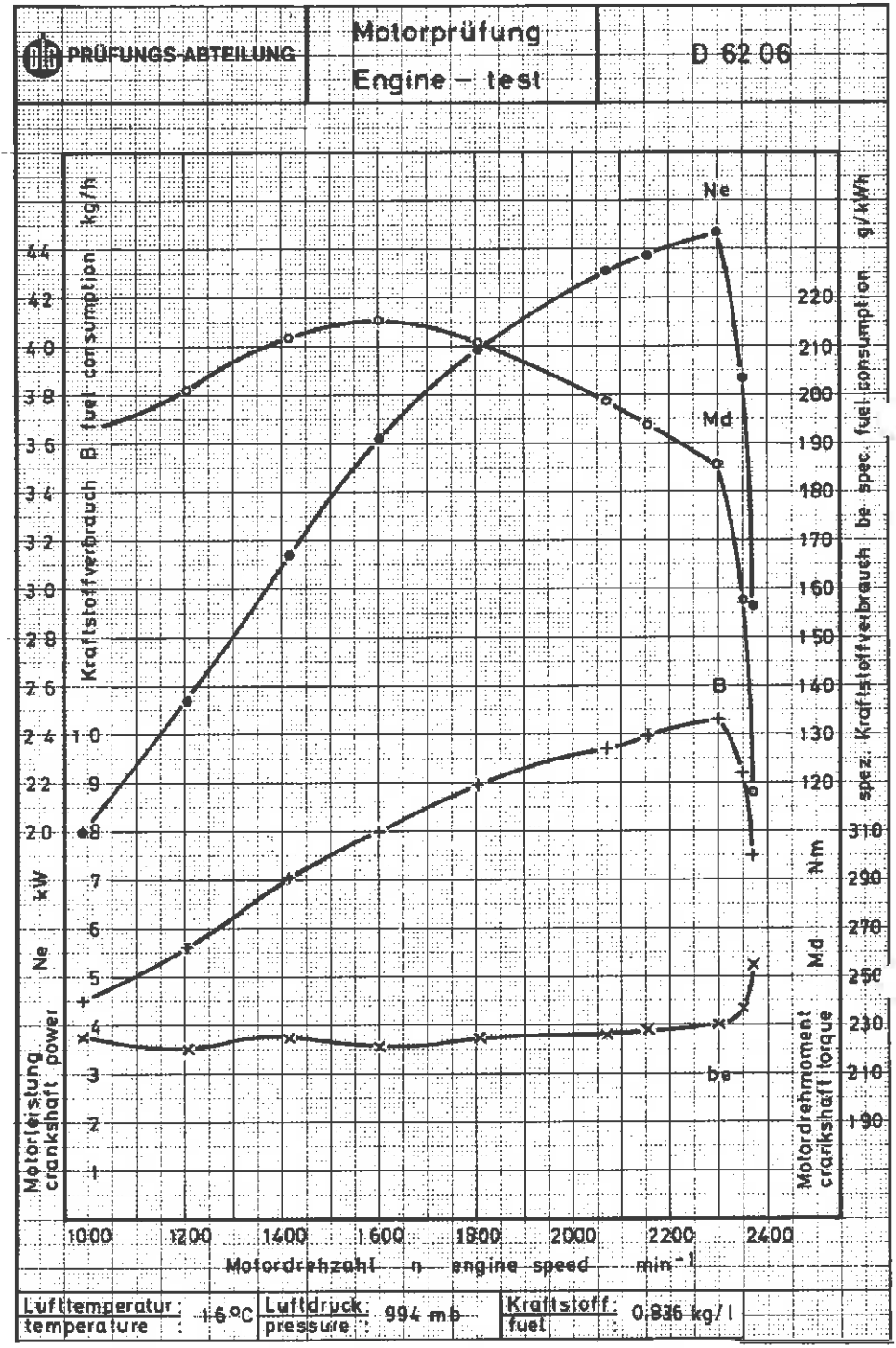
Maximum power

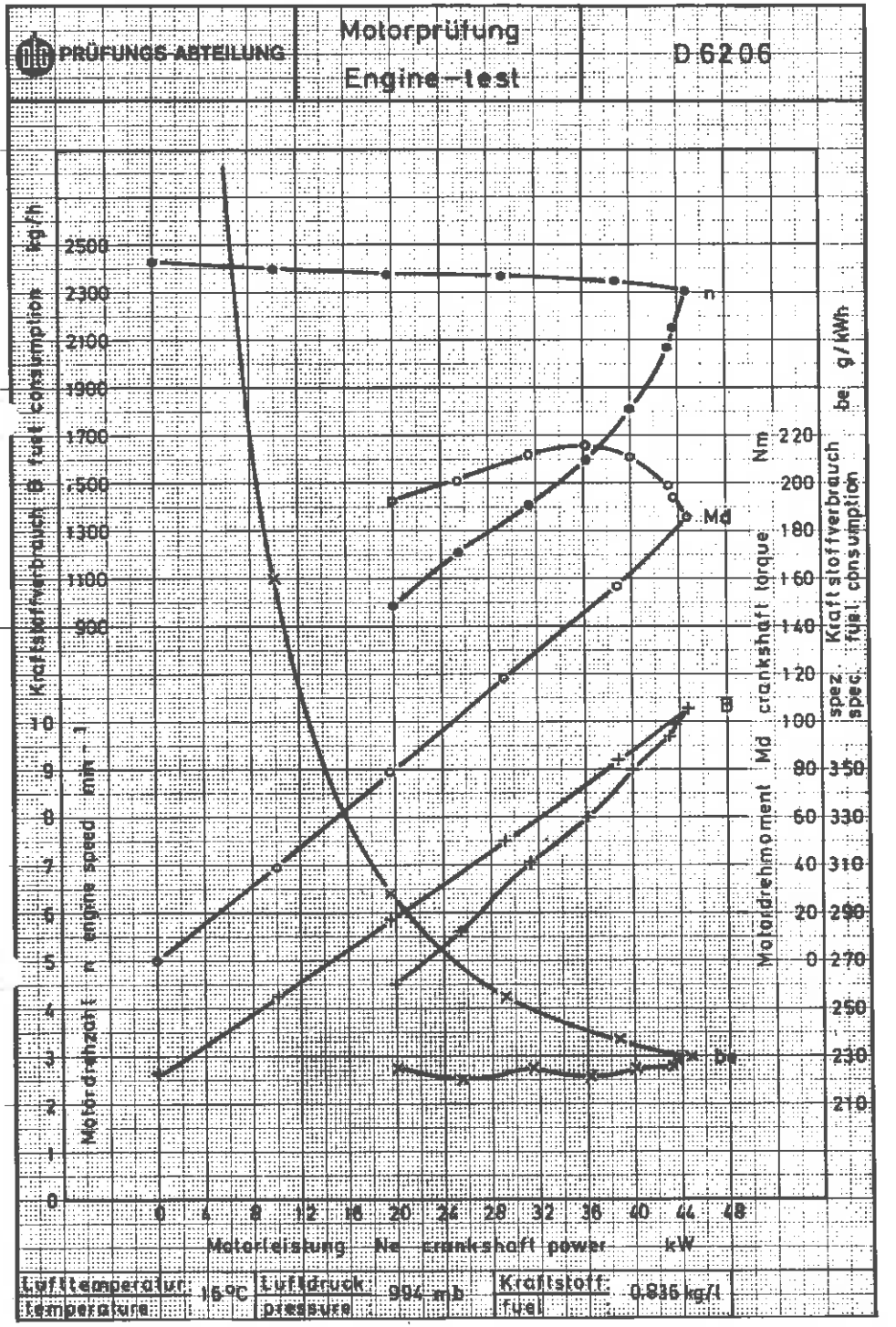
Power kW	Engine speed rev/min	Fuel concumption total 1/h	Fuel concumption total kg/h	Fuel concumption specific g/kWh	Specific energy kWh/l
At maximum power 2-hour test					
44,7	2300	12,32	10,30	230	4,34
At standard p.t.o. speed (540 rev/min)					
43,1	2070	11,63	9,72	226	4,43
At the speed recommended for drawbar work					
44,7	2300	12,32	10,30	230	4,34
Fuel consumption at part loads					
(i) 85 % of torque at maximum power					
38,7	2350	10,99	9,19	237	3,52
(ii) unloaded					
-	2425	3,18	2,66	-	-
(iii) 50 % of the load defined in (i)					
19,6	2383	6,99	5,84	298	2,80
(iv) maximum power					
44,7	2300	12,32	10,30	230	4,34
(v) 25 % of the load defined in (i)					
9,9	2402	5,10	4,26	430	1,94
(vi) 75 % of the load defined in (i)					
29,3	2369	8,95	7,48	255	3,27

Optimum fuel consumption: 220 g/kWh at 30,2 kW and 1600 rev/min
Standard fuel consumption 1/2 (DIN 9606): 5,33/10,56 l/h
No load maximum engine speed: 2425 rev/min
Torque at maximum power: 186 Nm
Maximum torque: 216 Nm at 1600 rev/min of the engine

Mean atmospheric conditions: temperature 16°C
pressure 994 mbar
relative humidity 67 %

Maximum temperatures: coolant not recorded
engine oil 90°C
fuel 17°C


PRÜFUNGS-ABTEILUNG
Motorprüfung
Engine – test
D 62 06
Ne
Md
B
be
Kraftstoffverbrauch B fuel consumption kg/h
Motorleistung Ne crankshaft power kW
Motordrehmoment Md crankshaft torque Nm
spez. Kraftstoffverbrauch be spec. fuel consumption g/kWh
Motordrehzahl n engine speed min⁻¹
1000 1200 1400 1600 1800 2000 2200 2400
Lufttemperatur: temperature: 16 °C
Luftdruck: pressure: 994 mb
Kraftstoff: fuel: 0,836 kg/l


PRÜFUNGS ABTEILUNG
Motorprüfung
Engine-test
D 6206
Kraftstoffverbrauch B fuel consumption kg/h
Motordrehzahl n engine speed min⁻¹
Motordrehmoment Md crankshaft torque Nm
spez. Kraftstoffverbrauch be spec. fuel consumption g/kWh
n
Md
B
be
Motorleistung Ne crankshaft power kW
Lufttemperatur temperature 15 °C
Luftdruck pressure 994 mb
Kraftstoff fuel 0,835 kg/l

PRÜFUNGS-ABTEILUNG

Motorprüfung
Engine – test

D 62 06

Motorleistung in % der Leistung bei Nenndrehzahl
engine power in % of power at rated engine speed

%

100 75 50 25

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

%

110 100 90 80 70 60 50 40

Belastung in % des Drehmomentes bei Nenndrehzahl
load in % of torque at rated engine speed

%

130 120 110 100 90 80 70 60 50 40 30 20 10 0

100 75 50

225

220 g/kWh

230 240 250 260 275 300 350 450

Lufttemperatur / temperature	16 °C	Luftdruck / pressure	994 mb	Kraftstoff / fuel	0,836 kg/l