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

O.E.C.D. No. 825



Agricultural Tractor DEUTZ D 6207 (2WD)
Type denomination D 6206 and 6206-S

Manufacturer
Klöckner-Humboldt-Deutz AG
D-5000 Köln-Deutz

Deutsche Landwirtschafts-Gesellschaft e. V.
Zimmerweg 16 · D-6000 Frankfurt a. M. 1
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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: September till November 1981
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.N.E.E.M.A., France) as being in accordance with the O.E.C.D STANDARD CODE.

Date of Approval: 23rd April 1982 O.E.C.D. No. 825

The tractor is manufactured in 2 variants:

1. D 6207 (type denomination D 6206) with 4-speed change gear. Maximum design related speed is 25 km/h.
2. D 6207 (type denomination D 6206) with 4-speed change gear and additional 5th gear. Maximum design related speed is 30 km/h.

In the rest both variants are identical

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 = 750,1 mm Hg			

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PRÜFUNGS-ABTEILUNG
DEUTZ D 6206
D 6206-S

Test No. 80-121

Tractor manufacturer:	KLÖCKNER-HUMBOLDT-DEUTZ AG D-5000 Köln-Deutz
Submitted for test by:	Manufacturer
Selected by:	Manufacturer with agreeement by DLG
Place of running-in:	Köln and Groß-Umstadt
Duration of running-in:	Engine and tractor appr. 50 hours

SPECIFICATION OF TRACTOR

Tractor

Make:	KLÖCKNER-HUMBOLDT-DEUTZ AG
Model:	D 6206 and D 6206-S, trade name D 6207
Type:	wheel tractor, unit construction, rear wheel driven
Serial No.:	776 12364

Engine

Make:	KLÖCKNER-HUMBOLDT-DEUTZ AG
Model:	F4L 912
Type:	4-stroke Diesel-engine, direct injection, air-cooled
Serial No.:	6427 804
Cylinders:	4, in-line, bore 100 mm, stroke 120 mm, displacement 3768 cm^3, compression ratio 17; replaceable ribbed cylinder liners
Valves:	Overhead
Fuel system:	PIERBURG fuel feed pump PE 15 252; BOSCH in-line injection pump: PES 4A 80D 410/3 RS 1300 manufacturer's production setting 47 mm^3/stroke at rated speed and full load; injection timing 28° before TDC; BOSCH multihole injection nozzles DLLA 149 S 774, injection pressure 175+8 bar; MANN fuel filter with replaceable cartridge; capacity of fuel tank 70 l
Governor:	BOSCH centrifugal variable speed governor: EP/RSV 325-1150 A8B 715DL governed range of engine speed 700 to 2180 rev/min, rated engine speed 2050 rev/min

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Air cleaner:
DEUTZ-SICCOPUR
dry paper element filter with precleaner, replaceable cartridge, electrical maintenance indicator

Exhaust silencer:
ROTH
multi chamber, absorption-expansion type silencer, 60 to 125 mm dia, 800 mm long, mouth showing upwards, 2360 mm above ground; on left hand side above bonnet

Lubrication system:
Forced feed from gear type pump, strainer in sump;
MANN oil filter in full flow with by-pass valve and replaceable cartridge;
change of cartridge every 200 operating hours;
oil capacity 8,5 l;
recommended oil qualities and change periods

API-CC	all 100 operating hours
API-CD	all 200 operating hours

specified oil viscosities:

below - 5°C	SAE 10W
-10°C to +15°C	SAE 20W/20
+ 5°C to +30°C	SAE 30
above +25°C	SAE 40

engine oil cooler within cooling air baffle

Cooling system:
Air-cooling,
axial blower, V-belt driven

Starting system:
Electrical
BOSCH solenoid pre engaged-drive starter motor JD 12V 3 kW;
BOSCH flame plug in inlet manifold for starting aid

Electrical equipment:
12 Volt, negative earth;
BOSCH 3-phase alternator:
G 1-14V 33A27, 462W;
1 lead acid battery, 110 Ah at 20 hours rating

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Transmission

Clutch:
LAMELLEN UND KUPPLUNGSBAU GMBH
DT 280/250 G;
dry dual-disc clutch;
gearbox drive disc 280 mm dia, pedal operated;
p.t.o. drive disc 250 mm dia, hand lever operated

Gear box:
DEUTZ
TW 50.4-N at tractor type D 6206:
synchromesh speed change gear with 4 speeds;
optional 1st and 2nd speed collar shifted;
2 forward ranges (L,S), collar shifted and
1 reverse range (R), sliding gear shifted;
totally 8 forward and 4 reverse speeds;

TW 50.4-S at tractor type D 6206-S:
gearbox identical with type TW 50.4-N, but with additional synchronized 5th speed, which is independent from range gear;
totally 9 forward and 4 reverse speeds;
for both variants creeper group optionally available

Rear axle and final drive:
DEUTZ
bevel gear drive to intermediate shaft,
spur gear final drive, bevel gear differential on rear axle shafts;
differential lock, pedal operated,
selfdisengaging

Front axle:
Not propelled

Gear lubrication:
gear box and rear axle*) 18 l SAE 90 API GL 4
or SAE 20W/20 API CC
or API CD

oil change interval all 1000 operating hours or yearly

*) with creeper group 20 l

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Total ratios and speeds (tyres 16,9 - 30)

Range	Gear	Total ratio engine : driving wheels	Nominal travelling speed *) at rated engine speed km/h
L	1	239,82	2,24
	2	150,83	3,56
	3	103,29	5,20
	4	63,35	8,48
S	1	83,29	6,45
	2	52,38	10,25
	3	35,87	14,97
	4	22,00	24,41
R	1	211,93	2,53
	2	133,29	4,03
	3	91,28	5,88
	4	55,98	9,59
-	5+)	18,47	29,07

*) calculated with the radius index 695 mm

+) only at variant D 6206-S

Power-take-off

Independent p.t.o., driven by 2nd plate of dual clutch; at rear of tractor, in tractor's median plane, 648 mm above ground; shaft end 403 mm behind rear axle centre;
35 mm dia, 6 splines, ISO 500 / DIN 9611 type 1

2 speeds are preselectable by hand lever:

540 rev/min p.t.o.

586 rev/min at rated engine speed, standard p.t.o. speed 540 rev/min at engine speed 1891 rev/min

1000 rev/min p.t.o.

1093 rev/min at rated engine speed, standard p.t.o. speed 1000 rev/min at engine speed 1875 rev/min

direction of rotation clockwise, viewed from tractor rear

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Power lift	DEUTZ-TRANSFERMATIK-SYSTEM K 45.3, hydraulic power lift, unit construction; draft and position control, floating position; top link sensing
Hydraulic system:	Open centre, PLESSEY gear type pump M 7 KS 17, directly driven by engine; displacement 17 cm³/rev or 37,5 l/min at rated engine speed; oil filter with replaceable cartridge in power lift housing; DEUTZ control valve; maximum working pressure 175 + 8 bar; 1 single acting ram with 90 mm bore, 152 mm stroke; relief valve set to 240 + 70 bar; 1 single acting auxiliary valve with oil tapping and return line at rear of tractor, up to 3 auxiliary valves, single or double acting, are available; hydraulic oil reservoir in power lift unit with 14 l capacity, 7 l may be taken off through tapping
Hydraulic oil:	recommended oil SAE 20W/20 API CC or API CD oil change period every 1000 operating hours or yearly, filter change period every 500 operating hours
Implement linkage:	3-point linkage, acc. to ISO 730/I, cat. 2; optional quick couplers WALTERSCHEID or DEUTZ-HITCH; lift rod length adjustable from 610 to 740 mm; lifting range at mean length of lift rods 675 mm : 270 to 840 mm

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Pull attachments

Trailer hitch:	DEUTZ AK 56, non automatical; height above ground adjustable to 800 mm and 857 mm, coupling pin 32 mm dia; distance of hitch hole centre to rear axle centre 496 mm, to p.t.o. shaft, 93 mm; permissible vertical load 1250 kg
Swinging drawbar:	Optional, not fitted to tested tractor
Holed drawbar:	Short bar, fitted on clevis of lower links; length between the joint balls 820 mm; thickness of bar 30 mm, width 80 mm; centre hole and 4 holes on either side with 80 mm distance each; all holes 33 mm dia; distance of holes centre line with lower links in horizontal position from rear axle centre 993 mm from p.t.o. shaft end 590 mm height above ground adjustable by power lift from 285 mm to 855 mm at mean length of lift rods of 675 mm, measured at surface of bar; the holed drawbar can be locked hydraulically- mechanically at 540 mm above ground
Towing hitch:	Height above ground 690 mm

Steering

ZAHNRADFABRIK FRIEDRICHSHAFEN AG
7340
mechanical, acting on front axle

Brakes

Parking brake: Internal shoe type brake,
mechanically acting on 1 brake drum
on intermediate shaft; 180 mm dia, 30 mm width;
brake drum on the right, outside of gearbox,
operated by hand lever with ratchet

Service brake: GIRLING
GMPD
pedal operated muscle power brake with
mechanical transmission, dry disc brakes
acting to the differential half shafts of
the rear axle, with servo-effect;
2 lining discs each with 193 mm dia to the
left and to the right side, near the wheels

Steering brake: Divided pedal of service brake, for normal
braking locked together

Wheels

Steered wheels: At front, 2 pneumatics 7,50 - 18 6 ply,
maximum permissible load per tyre 810 kg
at 2,25 bar inflation pressure and 30 km/h;
track width adjustable from 1485 to 1885 mm
in steps of 100 mm by extending telescopic
front axle;
rims 5.50F x 18

Driving wheels: At rear, 2 pneumatics 16,9 R 30 6 ply,
radial type tyre casing;
maximum permissible load per tyre 1900 kg
at 1,3 bar inflation pressure and 30 km/h;
track width adjustable from 1520 to 1920 mm
in steps of 100 mm by offset lug type rims;
rims W 15L x 30

Wheel base: 2125 mm

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Safety frame: FRITZMEIER
model 901, OECD-tested;
approval no. CS 1120 a

Seat: GRAMMER
DS 20 D 3H
upholstered seat with back rest;
adjustable suspension with shock absorber;
height of driver's platform above ground
755 mm;
height of unloaded seat in front- and lowermost position 550 mm above platform,
on an inclined plane adjustable in longitudinal direction by 220 mm and simultaneously in the height by 100 mm,
additional independent height adjustment of 120 mm in 8 steps

Number of grease points: 14

Dimensions

Total length: 3761 mm without ballast
4081 mm with ballast

Total width: 1965 mm with and without ballast

Total height: 2454 mm to top of safety frame

Ground clearance: 450 mm below gear box

Available tyres

tyre size	
front	rear
7.50 - 16 6 ply	9.5 - 36 6 ply
	12.4 - 36 6 ply
	12.4 - 38 6 ply
7.50 - 18 6 ply	13.6 - 38 6 ply
	14.9 - 28 6 ply
	16.9 - 30 6 ply

All tyres at front and at rear to be combined with each other

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Light equipment — Electrical 12 Volt
as per German legislation

	Dimensions mm	Height above ground to centre mm	Distance from outside edge of tractor to centre mm
Head lights	130 dia	945	825
Side lights	85 x 30	1485	188
Rear lights	85 x 30	1370	230
Reflectors	75 dia	1132	128

Running-time meter — Mechanical, combined with tachometer, driven by camshaft of engine; reference engine speed for one really counted hour 1500 rev/min

TEST CONDITIONS

Track setting — 1485 mm at front
1520 mm at rear

Weights — as during drawbar tests

		without driver	with driver
Without ballast:	front	945 kg	950 kg
	rear	1600 kg	1675 kg
	total	2545 kg	2625 kg
Front ballast:	12 weights, total		480 kg
Rear ballast:	4 weights per wheel, total		390 kg
	water in the tyres		510 kg
With ballast:	front	1550 kg	1550 kg
	rear	2370 kg	2450 kg
	total	3920 kg	4000 kg

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Fuels and lubricants used in tests

Fuel:	ARAL Diesel-fuel DIN 51601 specific gravity at 15°C	
	at engine test	0,843 kg/l
	at p.t.o. test	0,832 kg/l
	at drawbar test	0,843 kg/l
Engine oil:	SHELL ROTELLA T	SAE 20W/20
Transmission oil:	ESSO ESSOLUBE	SAE 90
Hydraulic oil:	SHELL ROTELLA T	SAE 20W/20

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COMPULSORY TESTS

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

Date of tests: 15th September 1981
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						
40.9	2050	586	11.39	9.47	232	3.59
At standard p.t.o. speed						
39.5	1891	540	10.93	9.09	230	3.62
At the speed recommended for drawbar work						
40.9	2050	586	11.39	9.47	232	3.59
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						
35.5	2094	598	9.92	8.25	232	3.58
(ii) unloaded						
-	2196	627	2.68	2.23	-	-
(iii) 50% of the load defined in (i)						
18.3	2158	617	6.09	5.07	277	3.00
(iv) maximum power						
40.9	2050	586	11.39	9.47	232	3.59
(v) 25% of the load defined in (i)						
9.2	2176	622	4.37	3.64	394	2.11
(vi) 75% of the load defined in (i)						
27.0	2126	607	7.95	6.62	245	3.40

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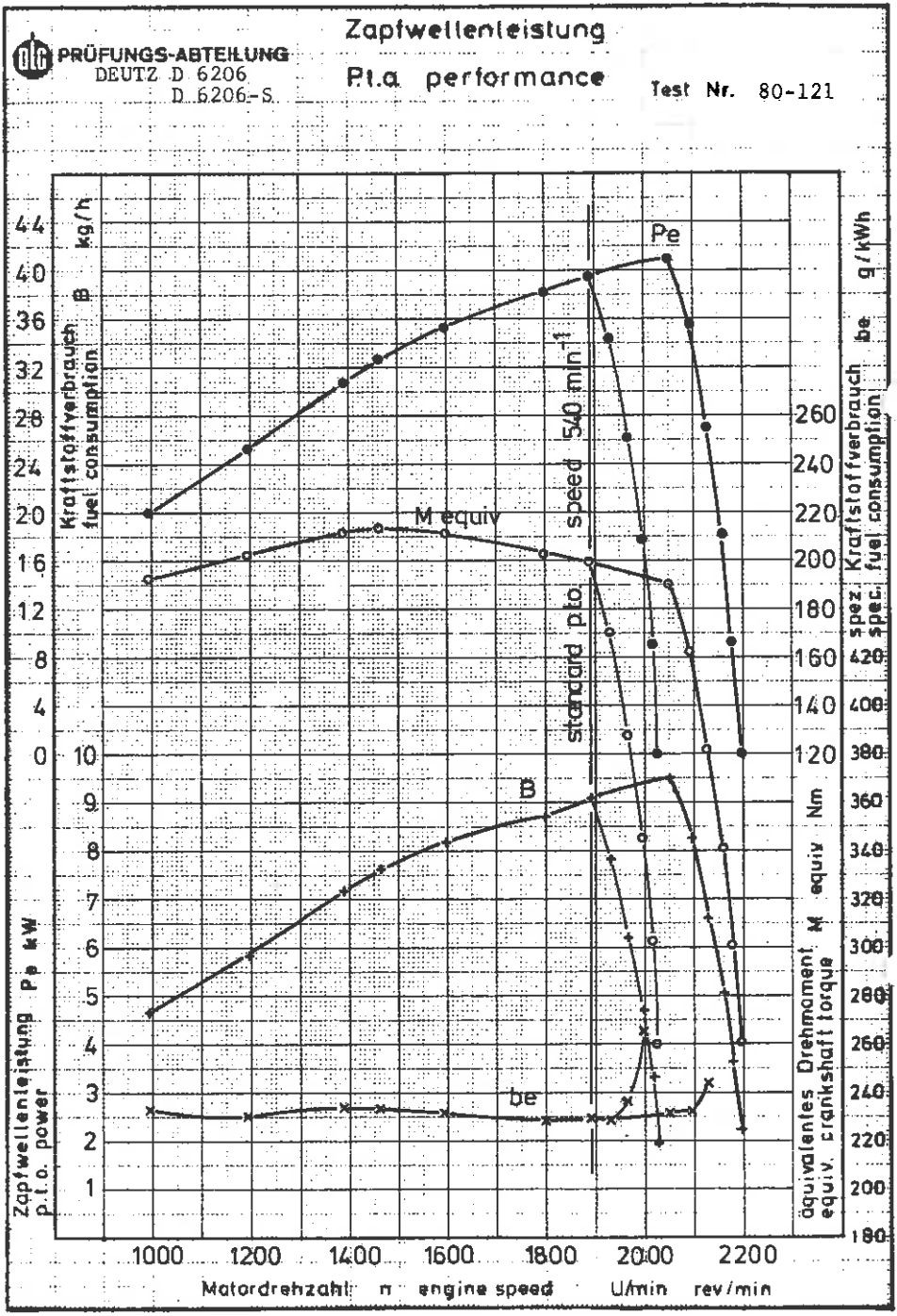
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Power kW	Speed engine rev/min	Speed p.t.o. rev/min	Fuel consumption hourly l/h	Fuel consumption hourly kg/h	Fuel consumption specific g/kWh	Specific energy kWh/l
Part loads, the governor hand lever in the position corresponding to the standard p.t.o. speed at full load (curve b)						
(i) 85% of the torque at maximum power at standard p.t.o. speed						
34.3	1931	552	9.45	7.86	229	3.63
(ii) unloaded						
-	2026	579	2.37	1.97	-	-
(iii) 50% of the load defined in (i)						
17.7	1995	570	5.66	4.71	266	3.13
(iv) maximum power						
39.5	1891	540	10.93	9.09	230	3.62
(v) 25% of the load defined in (i)						
9.0	2015	576	3.98	3.31	369	2.25
(vi) 75% of the load defined in (i)						
26.2	1965	562	7.46	6.20	237	3.51

Standard specific fuel consumption (g/kWh): 232/277/229/266

No load maximum engine speed: 2196 rev/min
Equivalent crankshaft torque at maximum power (2 hours): 190 Nm
Maximum equivalent crankshaft torque: 213 Nm at 1462 rev/min of the engine

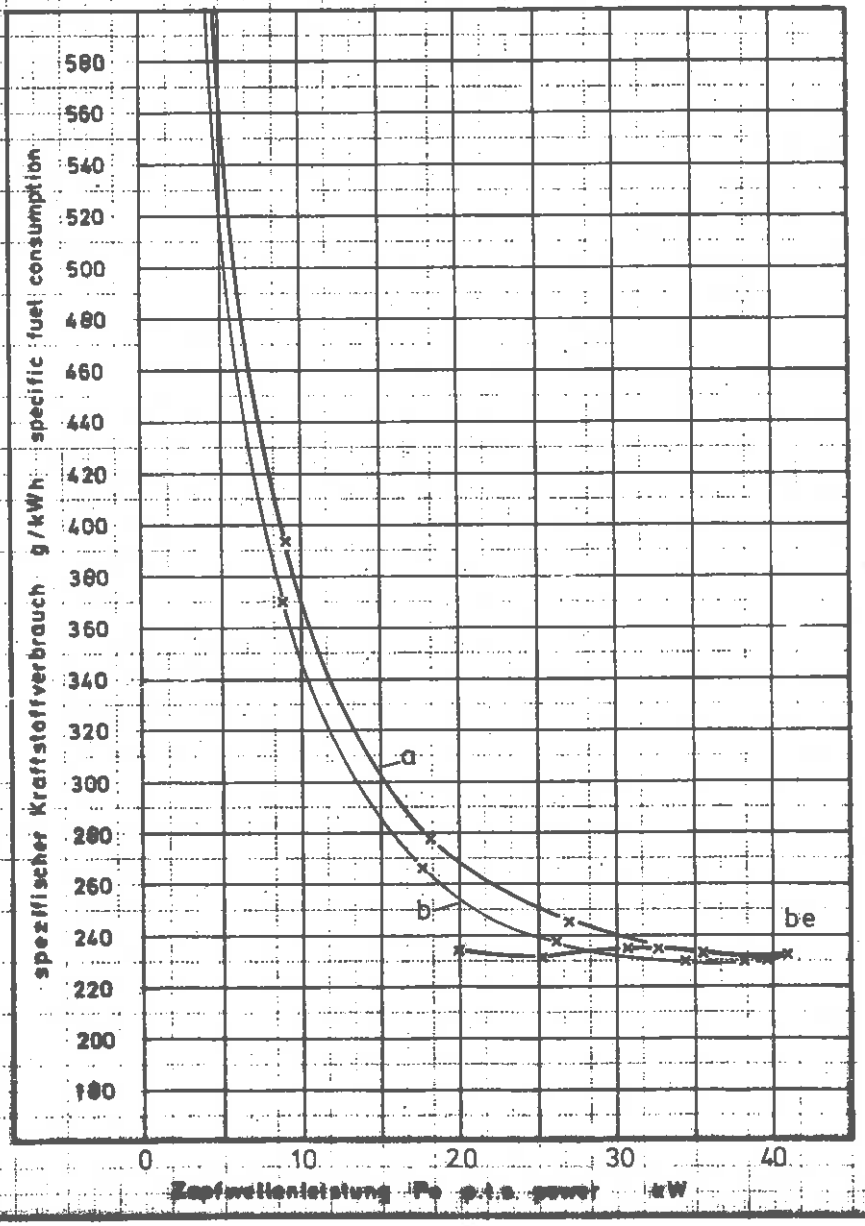
Mean atmospheric conditions:	temperature	21 °C
	pressure	1002 mbar
	relative humidity	55 %
Maximum temperatures:	cylinder head	75 °C
	engine oil	112 °C
	fuel	21 °C
	engine air intake	21 °C


Zapfwellenleistung
PRÜFUNGS-ABTEILUNG
DEUTZ D 6206
D 6206-S
P.t.o. performance
Test Nr. 80-121
Pe
M equiv
B
be
standard pto. speed 540 min⁻¹
Kraftstoffverbrauch B kg/h
fuel consumption
spez. Kraftstoffverbrauch be g/kWh
spec. fuel consumption
Zapfwellenleistung Pe kW
p.t.o. power
äquivalentes Drehmoment M equiv Nm
equiv. crankshaft torque
Motordrehzahl n engine speed U/min rev/min
1000
1200
1400
1600
1800
2000
2200

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Zapfwellenleistung
P.t.o. performance

Test Nr. 80-121



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(2) DRAWBAR PERFORMANCE

Date of tests: 24th till 30th September 1981

Type of track: Concrete, used draw attachment: Holed drawbar

Gear no. and group	Driving speed km/h	Power kW	Drawbar pull daN	Engine speed rev/min	Slip of wheels %
(i) MAXIMUM POWER (unballasted) height of drawbar above ground 630 mm					
2 L	3,14	21,7	2489	2121	15,0
3 L	4,48	30,7	2468	2080	15,0
1 S	5,69	33,8	2139	2050	11,3
4 L	7,75	35,5	1649	2051	8,1
2 S	9,55	35,9	1354	2051	6,2
3 S	14,29	35,6	901	2049	4,0
(ii) MAXIMUM POWER (ballasted) height of drawbar above ground 690 mm					
1 L	1,96	20,1	3683	2123	15,1
2 L	3,05	31,1	3676	2080	15,0
3 L	4,71	35,6	2720	2046	8,3
1 S	5,97	36,7	2210	2051	6,3
4 L	8,02	36,3	1629	2050	4,2
2 S	9,75	36,7	1354	2050	3,6
3 S	14,40	36,0	901	2049	2,4
(iii) FIVE-HOUR-TEST at 75% of pull at maximum power in 1st S gear					
1 S	6,26	28,8	1658	2101	4,3
(iv) FIVE HOUR TEST at pull corresponding to 15% wheel slip in test (ii)					
2 L	3,00	30,7	3683	2052	-

Total oil consumption during ten hours duration of tests (iii) and (iv) 27 g/h

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Tyre size front: 7.50 - 18 6 ply
rear: 16.9 R 30 6 ply

Tread bar height at the beginning of drawbar tests 90% of the value, when new

Specific fuel consumpt. g/kWh	Specific energy kWh/l	Temperatures Fuel °C	Cylinder-head °C	Engine-oil °C	Atmospheric conditions Tempe-rature °C	Relative humidity %	Pressure mbar
tyre inflation pressure 0,8 bar							
308	2,74	22	38	83	11	96	999
290	2,92	29	50	83	11	95	999
278	3,03	29	56	93	11	95	999
265	3,18	26	46	91	11	98	999
264	3,20	31	59	90	11	95	999
264	3,19	30	59	92	11	97	999
tyre inflation pressure 0,8 bar							
325	2,59	37	49	79	11	94	1004
292	2,89	38	49	80	10	92	1004
269	3,12	37	54	89	10	94	1004
260	3,24	36	52	85	11	92	1004
262	3,22	24	54	88	11	92	1004
259	3,25	28	48	89	12	88	1005
263	3,20	29	46	88	12	91	1005
264	3,20	35	63	105	18	76	1004
-	-	36	68	112	21	70	1004

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

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(3) TURNING SPACE AND TURNING CIRCLE

Wheel equipment front: 7.50 - 18 6 ply
rear: 16.9 R 30 6 ply

Track of wheels front: 1485 mm
rear: 1520 mm

	With brakes		Without brakes	
	left-hand m	right-hand m	left-hand m	right-hand m
Radius of turning space	3,63	3,03	4,05	3,90
Radius of turning circle	3,43	3,37	3,88	3,74

(4) LOCATION OF CENTRE OF GRAVITY

Height above ground	844 mm
Distance forward from rear axle centre	762 mm
Distance from tractor's median plane, to the left	6 mm

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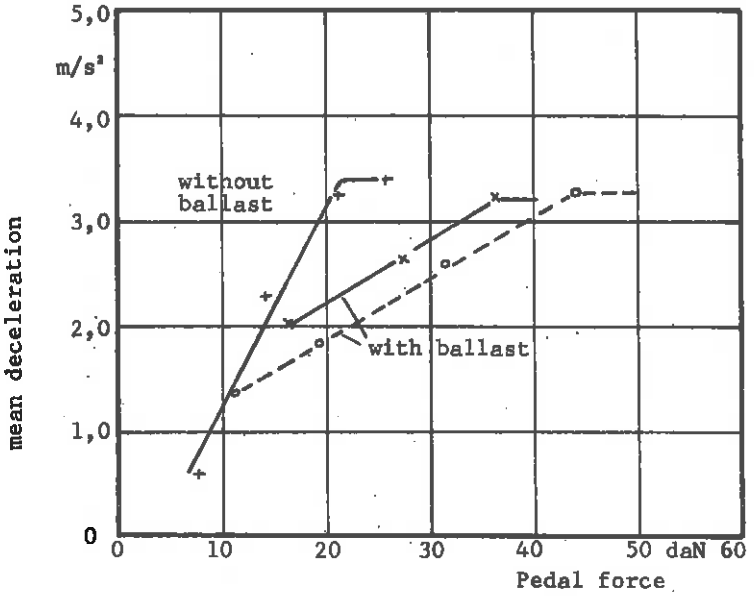
(5) Braking

Date of tests: 29th September 1981

Tractor masses during tests with driver:	front kg	rear kg	total kg
without ballast	950	1675	2625
with ballast	1550	2450	4000

A) Service brake

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



Speed before application of brakes, without ballast 25,6 km/h
with ballast 25,2 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 2625 kg	
	up	down	up	down
Braking device control force daN	22	29	19	25

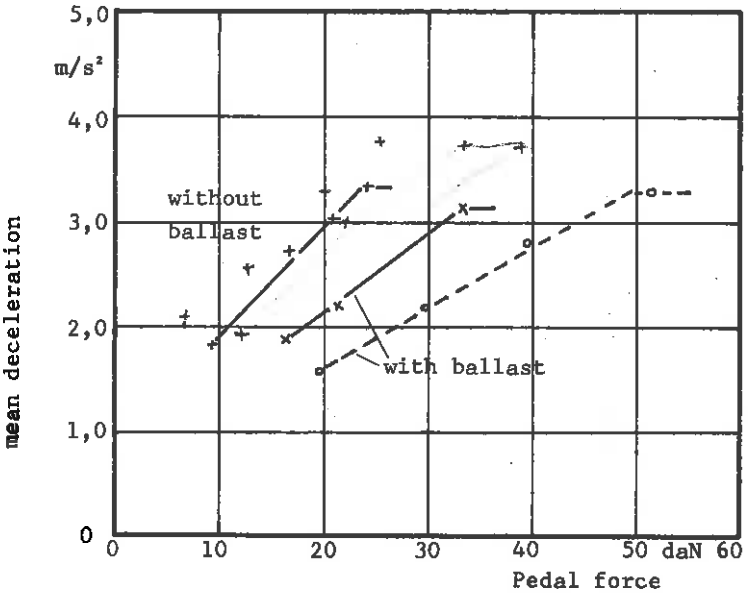
(5) Braking

Date of tests: 29th September 1981

Tractor masses during tests with driver:	front kg	rear kg	total kg
without ballast	950	1675	2625
with ballast	1550	2450	4000

A) Service brake

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



Speed before application of brakes, without ballast 30,4 km/h
with ballast 30,0 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 2625 kg	
	up	down	up	down
Braking device control force daN	22	29	19	25

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(6) MEASUREMENT OF EXTERNAL NOISE LEVEL

Date of test: 24th September 1981
Type of track: Concrete
Type of sound level meter: BRÜEL AND KJAER model 2209

Results of test	D 6206	D 6206-S
Gear:	4 S	5
Travelling speed before acceleration:	19,1 km/h	22,6 km/h
Sound level:	85,0 dB(A)	86,0 dB(A)

(7) NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of tests: 24th September 1981
Type of track: Concrete
Type of sound level meter:. BRÜEL AND KJAER model 2209

With FRITZMEIER safety frame, model 901,
without plastic-roof

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	2445	2,24	1,98	93,5
2 L	2423	3,11	3,56	95,0
3 L	2398	5,20	4,49	95,5
1 S	2053	6,45	5,84	95,5
4 L*)	1617	8,48	7,82	95,0
4 L*)	light load	8,48	8,97	92,0
2 S	1353	10,25	9,50	94,5
3 S	903	14,97	14,19	95,0
4 S	light load	24,41	25,47	93,0
5 x)	light load	29,07	30,13	93,5

*) The 4th L gear corresponds to the nominal travelling speed nearest to 7,5 km/h

x) only at variant D 6206-S

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(8) POWER LIFT AND HYDRAULIC PUMP PERFORMANCE

Date of tests: 12th October 1981

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	270	570	2250	158	-	-
On the frame	270	670	1590	158	2549	11,5 *)

Temperature of hydraulic fluid at start of test 65 °C

*) maximum tilting angle of mast from vertical position to uppermost position 7,5°

Lifting heights relative to horizontal lower links

mm	-300	-260	-200	-100	0	+100	+200	+300	+310	+370
Lifting forces at hitch points										
daN		2380	2380	2400	2380	2320	2250	2360	2360	
Lifting forces at test frame										
daN	2180		2120	2050	1960	1850	1770	1680		1590

Hydraulic Pump Performance

Opening pressure of the relief valve in remote circuit	165 bar
Sustained pressure with relief valve open	178 bar
Pump delivery rate at minimum pressure, the governor control lever being set for max. power	39,0 l/min
Hydraulic power at 90% of relief valve setting	8,6 kW
Corresponding delivery rate	32,3 l/min
Pressure	160 bar
Temperature of hydraulic fluid	65 °C

Tapping point used for test: At rear of tractor

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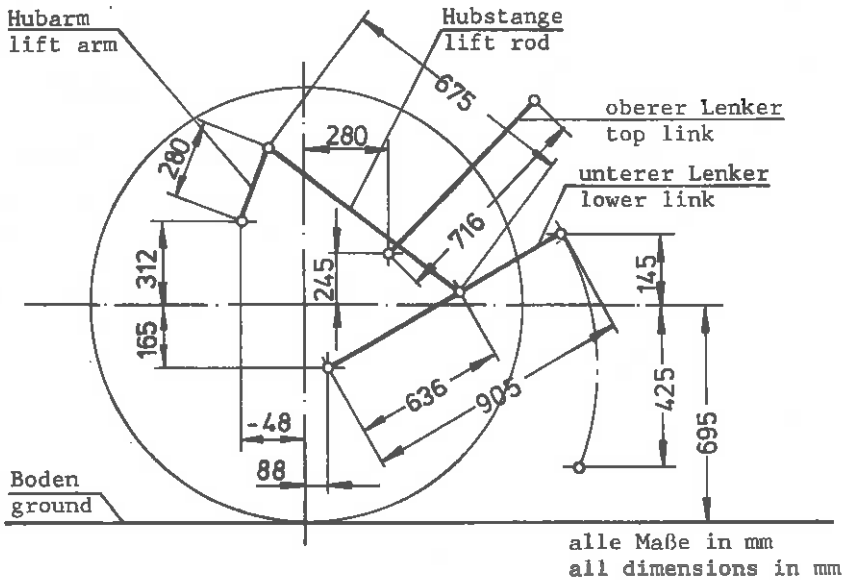
LINKAGE GEOMETRY when connected to the standard frame

Projected length in side view:

Lower links	905 mm
Lift arms	280 mm
Lift rods	675 mm
Top link	716 mm
Distance of lift rod connection point from pivot point of lower link	636 mm

The following dimensions are given relative to the rear wheel centre line, situated 695 mm above ground:

Lower link pivot point	88 mm behind	165 mm below
Top link pivot point	280 mm behind	245 mm above
Lift arm pivot point	48 mm behind	312 mm above
Maximum and minimum height of lower link hitch points	145 mm above	425 mm below
Height of lower link hitch points when locked in transport position	170 mm below,	145 mm above



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OPTIONAL TESTS

(9) ENGINE PERFORMANCE

Date of tests: 18th August 1981
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					
44.1	2050	11.54	9.73	221	3.82
At standard p.t.o. speed (540 rev/min)					
42.3	1890	11.05	9.32	220	3.83
At the speed recommended for drawbar work					
44.1	2050	11.54	9.73	221	3.82
Part loads					
(i) 85% of the torque at maximum power at 2-hour test					
38.1	2080	10.02	8.45	222	3.80
(ii) unloaded					
-	2178	2.33	1.96	-	-
(iii) 50% of the load defined in (i)					
19.5	2136	5.99	5.05	259	3.26
(iv) maximum power					
44.1	2050	11.54	9.73	221	3.82
(v) 25% of the load defined in (i)					
9.9	2156	4.10	3.46	350	2.41
(vi) 75% of the load defined in (i)					
28.9	2112	7.89	6.66	230	3.67

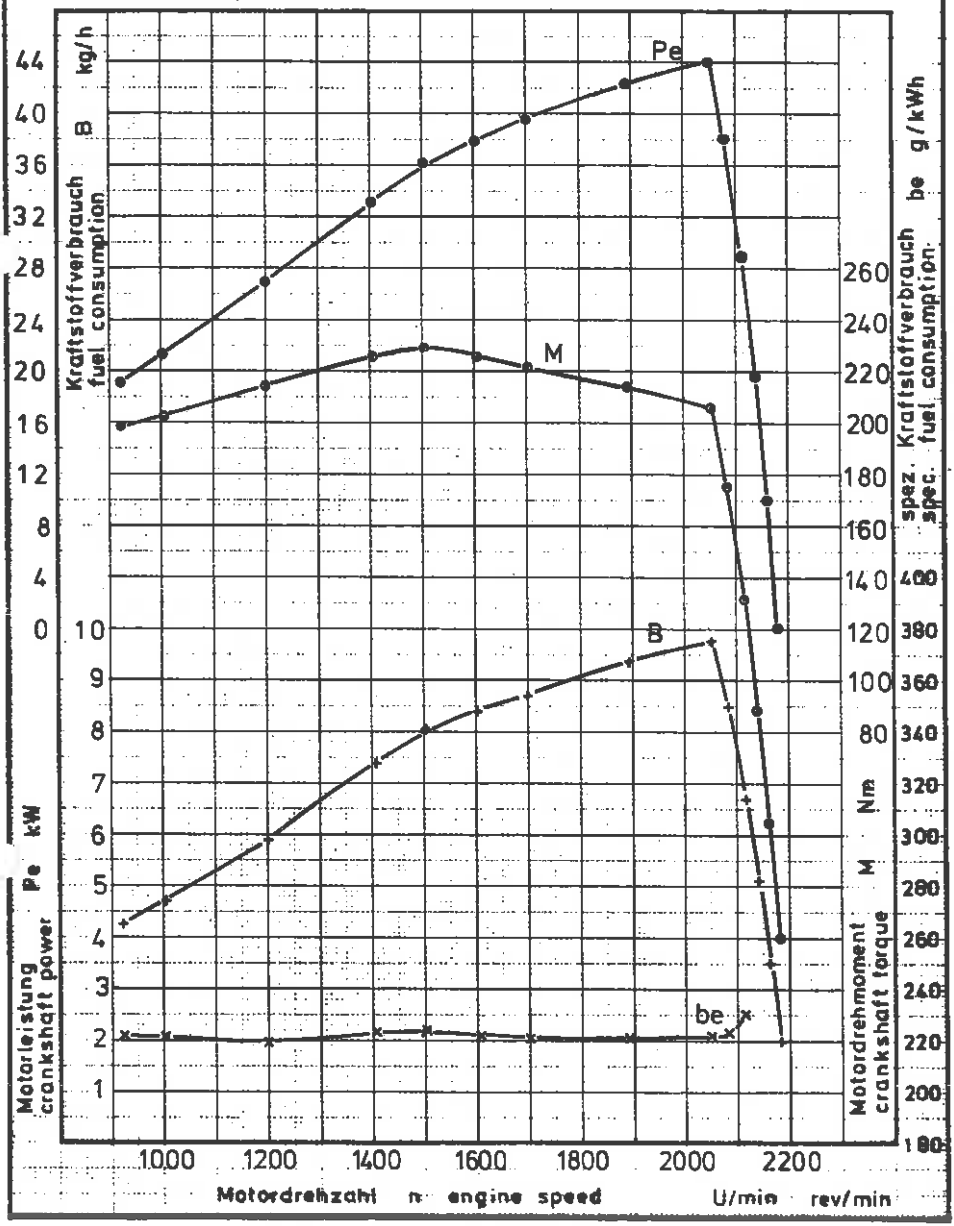
Optimum fuel consumption: 214 g/kWh at 25.8 kW and 1333 rev/min
No load maximum engine speed: 2178 rev/min
Torque at maximum power (2 hours): 205 Nm
Maximum torque: 229 Nm at 1504 rev/min of the engine

Mean atmospheric conditions:	temperature	23 °C
	pressure	1007 mbar
	relative humidity	42 %
Maximum temperatures:	cylinder head	72 °C
	engine oil	104 °C
	fuel	21 °C
	engine air intake	22 °C

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Motorleistung
Engine performance

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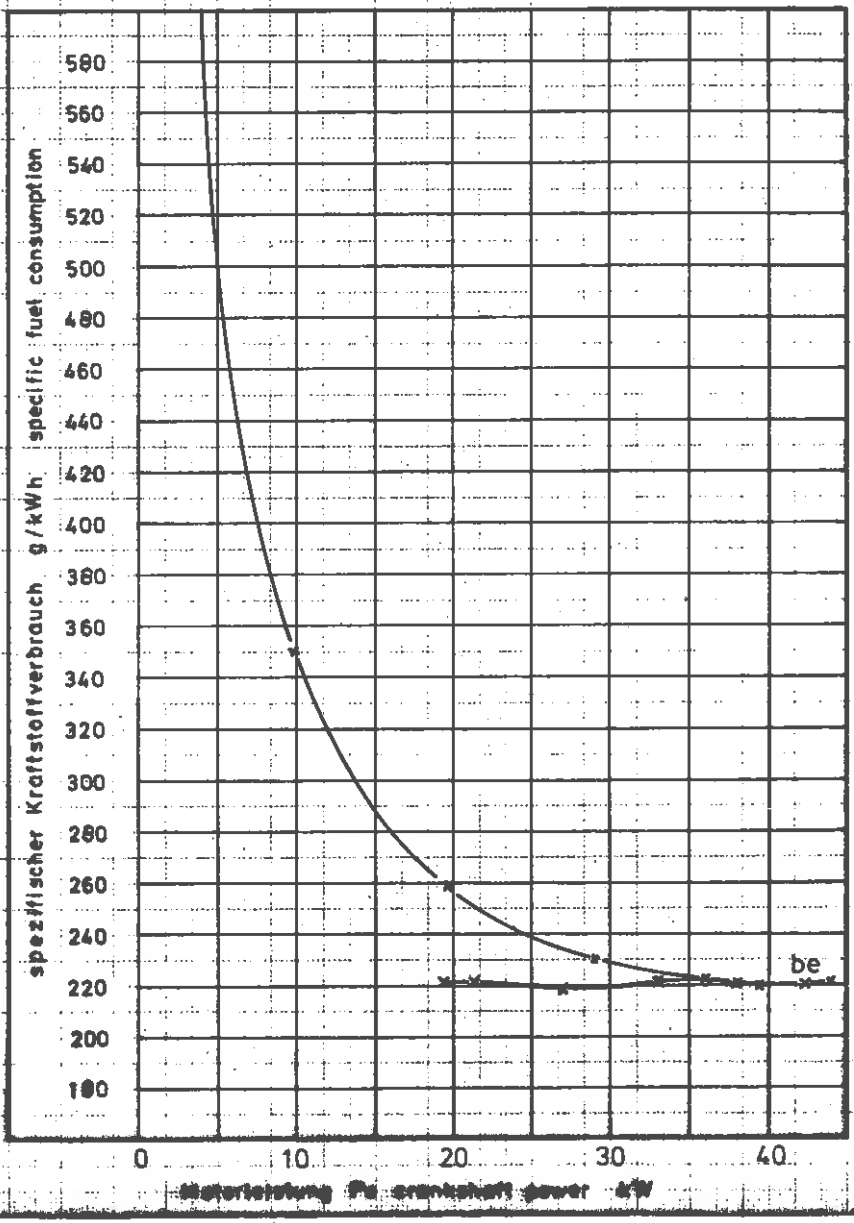


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Motorleistung
Engine performance

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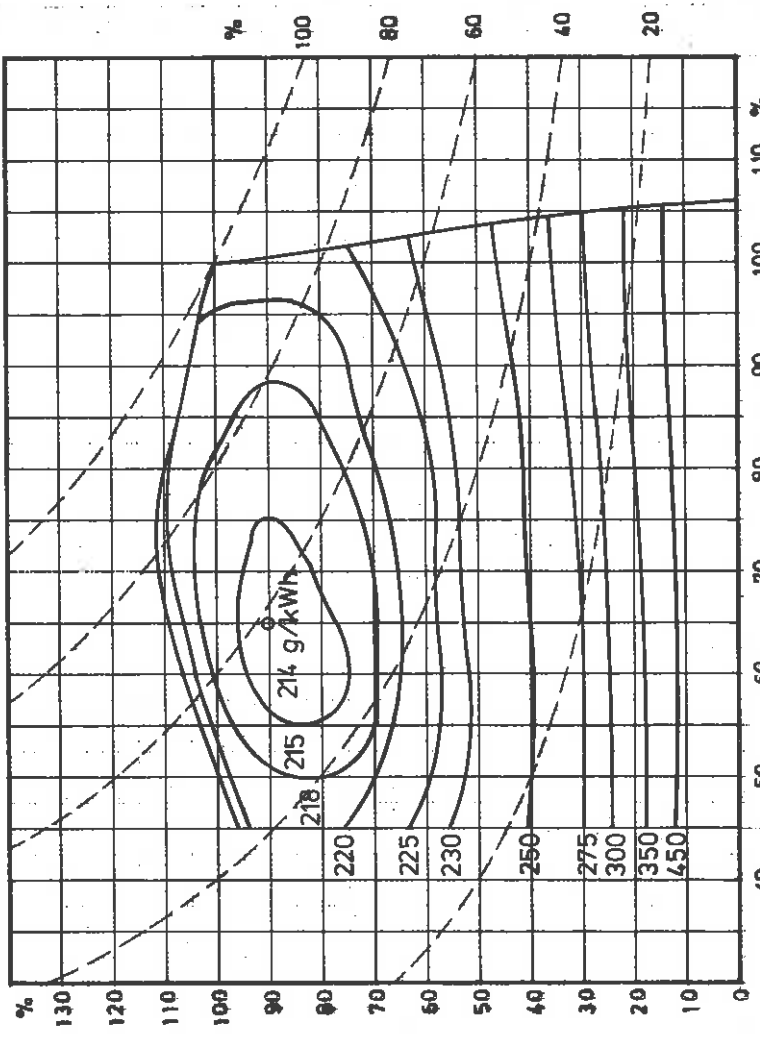
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Motorleistung
Engine performance

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Motorleistung in % der Leistung bei Nenndrehzahl

engine power in % of power at rated engine speed



Belastung in % des Drehmomentes bei Nenndrehzahl

load in % af torque at rated engine speed

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