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

O.E.C.D. No. 832



Agricultural Tractor DEUTZ D 7207 (2 WD)

type denomination D 7206-S

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

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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: November 1981 till February 1982
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 June 1982 O.E.C.D. No. 832

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 7206-S

Test No. 80-126

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:	DEUTZ
Trade name:	D 7207
Type denomination:	D 7206-S
Type:	Wheel tractor, unit construction, rear wheel driven
Serial No.:	7583 3367

Engine

Make:	DEUTZ
Model:	F4L 912
Type:	4-stroke Diesel-engine, direct injection, air cooled
Serial No.:	6606820
Cylinders:	4, in-line, bore 100 mm, stroke 120 mm; displacement 3770 cm^3, compression ratio 17; replaceable ribbed cylinders
Valves:	Overhead
Fuel system:	PIERBURG fuel feed pump PE 15252 BOSCH in-line injection pump PES 4A 80D 410/3 RS 1300; manufacturer's production setting 53,6 mm^3/stroke at rated engine speed and full load; start of pump delivery 28° before TDC; BOSCH multihole injection nozzles DLLA 149 S 774 injection pressure 175 + 8 bar; MANN fuel filter, replaceable; capacity of fuel tank 92 l
Governor:	BOSCH mechanical variable-speed governor EP/RSV 325-1150 A8B 657 DL, governed range 700 to 2450 rev/min; rated engine speed 2300 rev/min

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Air cleaner:	DEUTZ-SICCOPUR dry paper element filter with precleaner and replaceable cartridge, electrically operating maintenance indicator
Exhaust silencer:	ROTH multichamber absorption-expansion type silencer 125 to 60 mm dia, 800 mm long, on the left hand side above engine bonnet; mouth showing upwards, 2505 mm above ground
Lubrication system:	Forced feed with gear pump, strainer in sump; MANN oil filter in full flow with by-pass valve, filter replaceable; change period 200 operating hours, oil capacity 9,5 l

recommended oil qualities and oil change periods:

API-CC change every 100 operating hours
API-CD change every 200 operating hours

specified oil viscosities:

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

oil cooler inside of engine cooling-air baffle

Cooling system:	Air cooling V-belt driven axial blower
Starting system:	Electrical BOSCH solenoid pre-engaged-drive starting motor JD 12V 3kW; BOSCH flame glow plug in intake manifold
Electrical equipment:	12 Volt, negative earth; BOSCH 3-phase alternator G1-14V 33A 27, 462 W; 1 lead accid battery, 110 Ah at 20 hours rating

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Transmission

Clutch:

FICHTEL u. SACHS
DUT 295H 250/295
dry dual disc clutch;
travel drive pedal operated, disc 295 mm dia
p.t.o. drive hand lever operated,
disc 250 mm dia

Gear box:

DEUTZ
TW 56.10-S
synchromesh speed change gear with 4 speeds,
optionally collar shifted available;
collar shifted group gear with 3 forward
groups (L,Z and S) and 1 reverse group (R);
totally 12 forward and 4 reverse speeds

Rear axle and final drive:

DEUTZ
bevel gear drive to intermediate shaft,
bevel gear differential with pedal operated
selfdisengaging lock on intermediate shaft;
cylindrical gear transmissions from intermediate
shaft to rear axle half shafts

Front axle:

Not propelled

Gear lubrication:

Oil capacity for complete gearbox, final drives
included 36 l,
recommended oil gear oil SAE 90 API-GL4
or engine oil SAE 20 W/20
API-CC or
API-CD
oil change at least once a year or every
1000 operating hours

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Total ratios and speeds (tyres 16.9 - 34)

Group	Gear	Total ratio engine : driving wheels	Nominal travelling speed *) at rated engine speed km/h
L	1	298,57	2,16
	2	192,50	3,36
	3	137,88	4,68
	4	93,78	6,89
Z	1	124,62	5,18
	2	80,35	8,04
	3	57,55	11,22
	4	39,14	16,50
S	1	68,24	9,47
	2	44,00	14,68
	3	31,52	20,50
	4	21,44	30,14
R	1	92,89	6,95
	2	59,89	10,79
	3	42,90	15,06
	4	29,18	22,14

*) calculated with the radius index 745 mm

Power-take-off

Independent p.t.o.
driven by the second disc of the dual disc clutch;
at rear of tractor in tractor's median plane,
693 mm above ground,
420 mm behind rear axle centre line,
35 mm dia, 6 splines ISO 500/DIN 9611 type 1

2 speeds are preselectable by hand lever:

540 rev/min p.t.o.

613 rev/min at rated engine speed,
standard p.t.o. speed 540 rev/min at engine speed 2025 rev/min

1000 rev/min p.t.o.

1062 rev/min at rated engine speed,
standard p.t.o. speed 1000 rev/min at engine speed 2167 rev/min

sense of rotation clockwisely, viewed from tractor rear

Power lift

DEUTZ
K 45.1 DEUTZ-TRANSFERMATIC-System
hydraulic power lift in unit construction;
draft- and position control, floating position;
top link sensing

Hydraulic system:

Open centre system;
PLESSY gear pump TF/217-50 S/A
directly driven by engine;
delivery 42 l/min at rated engine speed,
hydraulic oil filter incorporated in power lift unit,
filter change period 500 operating hours

DEUTZ-control valve;
maximum working pressure 200 + 8 bar,
single acting cylinder with 90 mm bore and 152 mm stroke;
overpressure relief valve in cylinder set to 240 + 70 bar

1 single acting additional DEUTZ-control valve with oil tap and return pipe at rear of tractor;
maximum 3 single or double acting additional control valves available

hydraulic oil reservoir with 14 l capacity in power lift unit, additional tank with 14 l capacity optionally available;
by oil tap may be taken off 7 l if tractor is standing or travelling and 21,5 l if additional tank is fitted

Hydraulic oil:

Recommended engine oil SAE 20W/20 or SAE 10W
API-CC or API-CD

oil change at least once a year or every 1000 operating hours

Implement linkage:	Three point linkage, joint balls according to ISO 730/I category 2; lift rods adjustable from 620 to 780 mm; with mean length 700 mm of lift rods lifting range above ground from 403 to 910 mm

Pull attachment

Trailer hitch:	DEUTZ AK 56, non automatical; height above ground adjustable to 800, 845, 865 or 910 mm by shifting respectively turning; coupling pin 32 mm dia; distance of hitch hole centre: to rear axle centre line 526 mm to p.t.o. shaft end 106 mm; permissible vertical load 1250 kg automatical trailer hitch optionally available
Swinging drawbar:	Optional, not fitted on tractor tested
Drawbar:	Short bar, fitted on clevis of lower links of three point linkage; length between the joint balls 820 mm, thickness 30 mm, width 80 mm; centre hole and 4 holes in 80 mm distance each on either side, all holes 33 mm dia; distance of holes' centre line with lower links in horizontal position: from rear axle centre 975 mm from p.t.o. shaft end 555 mm with lift rods mean length 700 mm: height above ground adjustable by power lift in the range from 418 to 925 mm; the drawbar may be mechanically hydraulically fixed in the height of 530 mm above ground this datas were determined at the surface of the bar
Towing hitch:	Height above ground 755 mm

Steering	Hydrostatic, ZAHNRADFABRIK FRIEDRICHSHAFEN AG SERVOSTAT 8451 oil circuit in common with power lift, WABCO flow dividing valve; 1 differential cylinder acting by linkage lever and steering track rod on front wheels

Brakes

Parking brake:	Mechanical internal-expanding-shoe brake acting on intermediate shaft, operated by pulling handle with ratchet; 1 brake drum with 180 mm dia and 40 mm width each on the left and right outside of gearbox
Service brake:	KNOTT, internal-expanding-shoe brake; pedal operated muscle power brake with hydraulical transmission, by intermediate shaft acting on rear axle 1 brake drum with 254 mm dia and 70 mm width each on the left and right outside of gearbox, on intermediate shaft
Steering brake:	Divided pedal of foot brake, for normal use locked together

Wheels

Steering wheels:	at front, 2 pneumatics 7.50 - 20 6 ply maximum permissible load per tyre 875 kg at 2,25 bar inflation pressure and 30 km/h travelling speed; track width adjustable from 1476 to 1976 mm in steps of 100 mm each by extending telescopic half axles; rims 5.50F x 20
Driving wheels:	at rear, 2 pneumatics 16.9 - 34 6 ply diagonal type tyre casing; maximum permissible load per tyre 2015 kg at 1,3 bar inflation pressure and 30 km/h travelling speed; track width adjustable from 1520 to 2020 mm in steps of 100 mm each by offset lug typ rims; rims W 15L x 34
Wheel base:	2414 mm

Safety frame: FRITZMEIER
model 901, OECD-tested, approval No. CS 1105a

Seat: GRAMMER
model DS 20D 3H
upholstered seat with back rest, adjustable spring with shock absorber;
height of driver's platform 945 mm above ground,
height of unballasted seat in front- and lowermost position 435 mm above platform;
seat on an inclined plane adjustable in longitudinal direction by 230 mm and simultaneously in the height by 125 mm;
additional independent height adjustment of 125 mm in 8 steps

Number of grease points: 14

Dimensions

Total length:	4030 mm	without ballast
	4350 mm	with ballast
Total width:	1965 mm	without ballast
	2330 mm	with ballast
Total height:	2505 mm	to top of safety frame
Ground clearance:	485 mm	below engine block

Available tyres

Tyre size	
at front	at rear
7.50 - 18 6 ply or 7.50 - 20 6 ply	9.5 - 44 8 ply 12.4 - 38 6 ply 13.6 - 36 6 ply 13.6 - 38 6 ply 16.9 - 30 6 ply 16.9 - 34 6 ply

all tyre sizes at front and at rear may be combined with each other

Lighting equipment — Electrical, 12 Volt
in accordance with the German legislation

	Dimensions mm	Height of centre above ground mm	Distance from outside edge of tractor to centre mm
Head lights	130 dia	1020	813
Side lights	85 x 30	1585	258
Rear lights	85 x 30	1445	268
Reflectors	75 dia	1190	173

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 of wheels — At front 1476 mm
at rear 1520 mm

Weights — As used for drawbar performance test

		Without driver	With driver
Without ballast:	front	975 kg	985 kg
	rear	1900 kg	1975 kg
	total	2875 kg	2960 kg
Front ballast:	14 weights, total		580 kg
Rear ballast:	water in the tyres		570 kg
	9 weights per rear wheel, total		890 kg
With ballast:	front	1740 kg	1750 kg
	rear	3175 kg	3250 kg
	total	4915 kg	5000 kg

Fuel and lubricants used in tests

Fuel:	ARAL Diesel fuel DIN 51601	
	specific gravity at 15°C	
	at engine test	0,828 kg/l
	at p.t.o. test	0,832 kg/l
	at drawbar performance test	
	without ballast	0,830 kg/l
	with ballast	0,827 kg/l
Engine oil:	SHELL ROTELLA SAE 20W/20	
Gear oil:	ESSOLUBE SAE 90	
	gearbox inclusive of rear axle	
Hydraulic oil	SHELL ROTELLA SAE 20W/20	

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COMPULSORY TESTS

(1) MAIN POWER TAKE-OFF PERFORMANCE (1000 rev/min)

Date of tests: 20th November 1981
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						
49.8	2300	1062	14.79	12.30	247	3.37
At standard p.t.o. speed						
48.5	2167	1000	14.09	11.72	241	3.45
At the speed recommended for drawbar work						
49.8	2300	1062	14.79	12.30	247	3.37
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						
43.3	2353	1086	12.58	10.47	242	3.44
(ii) unloaded						
-	2447	1129	3.49	2.91	-	-
(iii) 50% of the load defined in (i)						
22.0	2395	1105	7.59	6.32	287	2.90
(iv) maximum power						
49.8	2300	1062	14.79	12.30	247	3.37
(v) 25% of the load defined in (i)						
11.1	2419	1116	5.45	4.53	408	2.04
(vi) 75% of the load defined in (i)						
32.6	2363	1090	9.88	8.22	252	3.30

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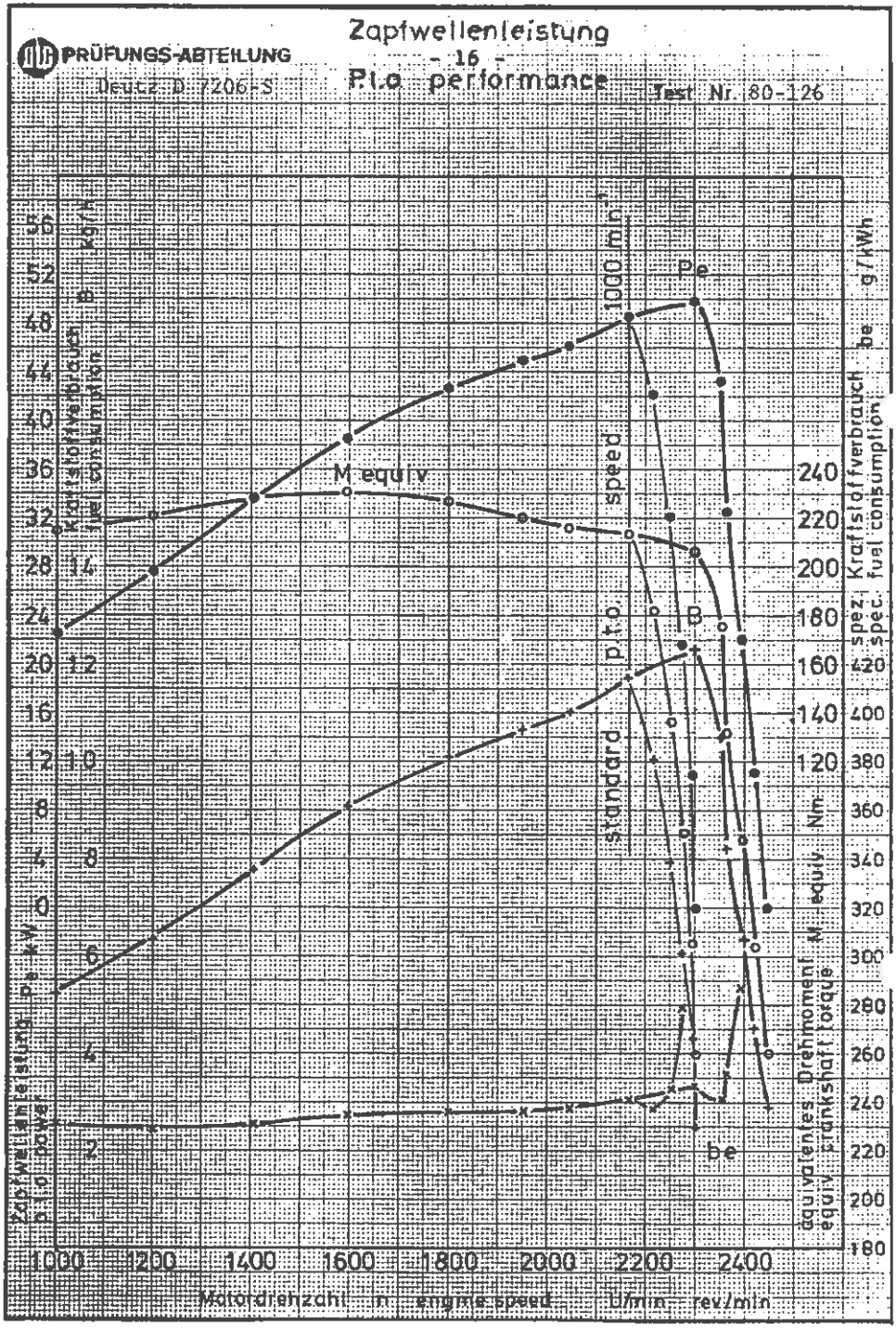
Test No. 80-126

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						
42.2	2215	1022	12.06	10.03	238	3.50
(ii) unloaded						
-	2302	1062	2.99	2.48	-	-
(iii) 50% of the load defined in (i)						
21.6	2274	1049	7.26	6.04	279	2.98
(iv) maximum power						
48.5	2167	1000	14.09	11.72	241	3.45
(v) 25% of the load defined in (i)						
10.9	2294	1059	5.16	4.29	393	2.12
(vi) 75% of the load defined in (i)						
32.1	2249	1038	9.50	7.91	246	3.38

Standard specific fuel consumption (g/kWh): 242/287/238/279

No load maximum engine speed: 2447 rev/min
Equivalent crankshaft torque at maximum power (2 hours): 207 Nm
Maximum equivalent crankshaft torque: 231 Nm at 1595 rev/min of the engine

Mean atmospheric conditions:	temperature	19 °C
	pressure	1016 mbar
	relative humidity	62 %
Maximum temperatures:	cylinder head	80 °C
	engine oil	98 °C
	fuel	19 °C
	engine air intake	19 °C


PRÜFUNGS-ABTEILUNG
Deutz D 7206-S
Zapfwellenleistung
- 16 -
P.t.o performance
Test Nr. 80-126
standard p.t.o speed 1000 min⁻¹
Pe
B
Be
M equiv
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
2400

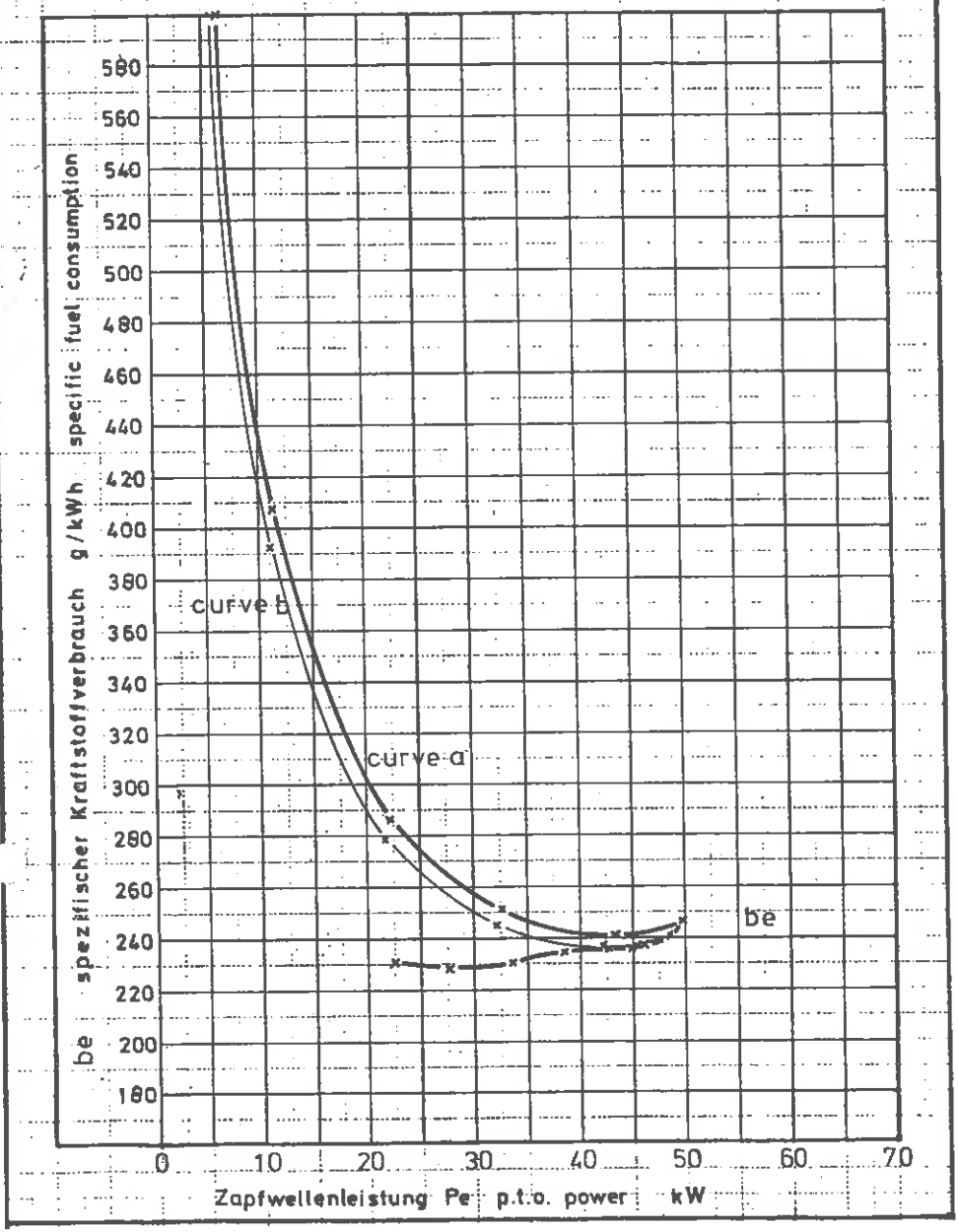
PRÜFUNGS-ABTEILUNG

DEUTZ D 7206-S

Zapfwellenleistung

P.t.o. performance

Test Nr. 80-126



PRÜFUNGS-ABTEILUNG
DEUTZ D 7206-S

(2) DRAWBAR PERFORMANCE

Date of tests: 16th December 1981 till 2nd February 1982

Type of track: Concrete

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 600 mm				
3 L	4,01	34,6	3107	2360	15,0
1 Z	4,44	38,2	3100	2352	15,0
4 L	6,14	42,0	2461	2301	8,9
2 Z	7,31	42,7	2103	2296	6,8
1 S	8,73	43,7	1802	2300	5,5
3 Z	10,48	43,5	1494	2302	4,4
2 S	13,85	43,9	1141	2298	3,4
4 Z	15,61	43,6	1005	2300	2,9
(ii)	MAXIMUM POWER (ballasted) height of drawbar above ground 680 mm				
1 L	1,87	25,3	4870	2390	15,1
2 L	2,86	38,7	4873	2357	15,0
3 L	4,16	40,7	3519	2300	8,9
1 Z	4,65	40,8	3159	2302	7,9
4 L	6,30	42,7	2438	2300	5,9
2 Z	7,44	43,4	2100	2305	5,0
1 S	8,79	42,8	1753	2300	4,1
3 Z	10,54	42,7	1459	2300	3,4
2 S	13,87	42,1	1092	2302	2,5
(iii)	FIVE-HOUR-TEST at 75% of pull at maximum power in 1st Z gear				
1 Z	4,89	32,2	2369	2365	5,7
(iv)	FIVE-HOUR-TEST at pull corresponding to 15% wheel slip in test (ii)				
2 L	2,86	38,7	4873	2326	-

Total oil consumption during ten hours duration of tests (iii) and (iv) 48 g/h

PRÜFUNGS-ABTEILUNG

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Tyre size front: 7.50 - 20 6 ply
rear: 16.9 - 34 6 ply

Traed bar height at the beginning of drawbar tests 82% of the value when new

Specific fuel consumpt. g/kWh	Specific energy kWh/l	Temperatures Fuel °C	Cylind. head °C	Engine-oil °C	Atmospheric conditions Tempe-rature °C	Relative humidity %	Pressure mbar
tyre inflation pressure 0,8 bar							
310	2,68	16	56	80	-5	88	974
310	2,68	16	56	78	-5	85	974
294	2,82	20	55	78	-3	85	980
289	2,87	20	55	78	-3	86	980
284	2,93	20	60	85	-3	86	980
285	2,91	20	60	85	-4	86	980
282	2,94	20	60	80	-4	86	980
284	2,92	23	55	80	-5	86	980
tyre inflation pressure 0,9 bar							
345	2,40	34	50	70	5	62	1007
313	2,64	33	60	85	4	70	1007
304	2,72	35	58	85	3	72	1007
302	2,74	35	56	80	4	72	1007
291	2,84	35	55	75	4	70	1014
284	2,91	35	55	75	4	70	1014
287	2,88	35	55	75	4	83	1014
290	2,85	35	55	75	4	85	1014
295	2,80	32	55	75	4	85	1014
297	2,78	30	59	83	2	75	1012
-	-	37	70	98	7	78	1014

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

(3) TURNING SPACE AND TURNING CIRCLE

Wheel equipment front: 7.50 - 20 6 ply
rear: 16.9 - 34 6 ply

Track of wheels front: 1476 mm
rear: 1520 mm

	With brakes		Without brakes	
	left-hand m	right-hand m	left-hand m	right-hand m
Radius of turning space	3,81	3,80	4,30	4,27
Radius of turning circle	3,59	3,58	4,08	4,05

(4) LOCATION OF CENTRE OF GRAVITY

Height above ground	879 mm
Distance forward from rear axle centre	802 mm
Distance from tractor's median plane, to the right	3 mm

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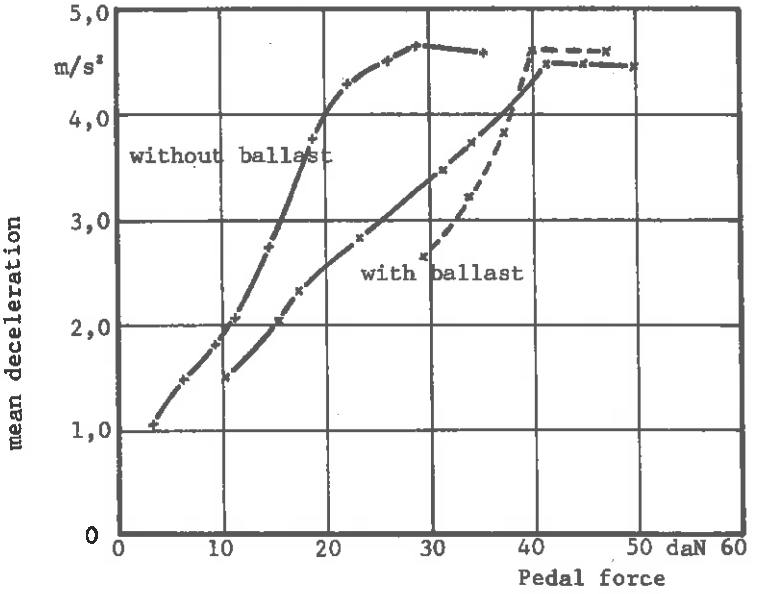
(5) Braking

Date of tests: 21st and 26th January 1982

Tractor masses during tests with driver:	front kg	rear kg	total kg
without ballast	985	1975	2960
with ballast	1750	3250	5000

A) Service brake

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



Speed before application of brakes, without ballast 31,1 km/h
with ballast 30,8 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 2960 kg	
	up	down	up	down
Braking device control force daN	28	27	26	25

PRÜFUNGS-ABTEILUNG
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(6) MEASUREMENT OF EXTERNAL NOISE LEVEL

Date of test: 6th January 1982
Type of track: Concrete
Type of sound level meter: BRÜEL AND KJAER model 2209

Results of test

Gear: 4th S
Travelling speed before acceleration: 23,1 km/h
Sound level: 91,0 dB(A)

(7) NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of tests: 5th January 1982
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 no. and group	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	3110	2,16	1,72	95,0
2 L	3110	3,36	2,99	96,0
3 L	3103	4,68	3,95	96,0
1 Z	3123	5,18	4,41	96,5
4 L	2389	6,89	6,18	96,5
2 Z *)	light load	8,04	8,36	94,0
2 Z *)	2059	8,04	7,32	96,5
1 S	1742	9,47	8,74	96,0
3 Z	1449	11,22	10,45	97,0
2 S	1098	14,68	13,85	96,0
4 Z	969	16,50	15,58	97,5
4 S	light load	30,14	30,86	96,0

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

PRÜFUNGS-ABTEILUNG
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Test No. 80-126

(8) POWER LIFT AND HYDRAULIC PUMP PERFORMANCE

Date of tests: 2nd December 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	403	507	2790	180	-	-
On the frame	403	615	2010	180	3186	12

Temperature of hydraulic fluid at start of test 65 °C

Lifting heights relative to horizontal lower links

mm	-185	-162	-100	0	+100	+200	+300	+345	+400	+430
Lifting forces at hitch points										
daN		2880	2900	2920	2900	2790	2790	2810		
Lifting forces at test frame										
daN	2630		2610	2470	2410	2260	2100		2010	2010

Hydraulic Pump Performance

Opening pressure of the relief valve in remote circuit	186 bar
Sustained pressure with relief valve open	200 bar
Pump delivery rate at minimum pressure, the governor control lever being set for max. power	32,4 l/min
Hydraulic power at 90% of relief valve setting	9,5 kW
Corresponding delivery rate	31,7 l/min
Pressure	180 bar
Temperature of hydraulic fluid	65 °C

Tapping point used for test: At rear of tractor

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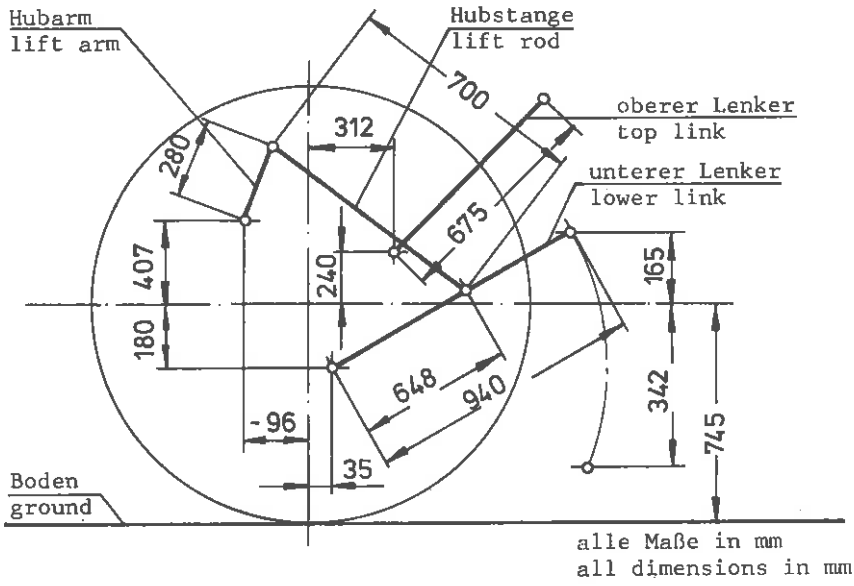
LINKAGE GEOMETRY when connected to the standard frame

Projected length in side view:

Lower links	940 mm
Lift arms	280 mm
Lift rods	700 mm
Top link	675 mm
Distance of lift rod connection point from pivot point of lower link	648 mm

The following dimensions are given relative to the rear wheel centre line, situated 745 mm above ground:

Lower link pivot point	180 mm below	35 mm behind
Top link pivot point	240 mm above	312 mm behind
Lift arm pivot point	407 mm above	96 mm behind
Maximum and minimum height of lower link hitch points	165 mm above	342 mm below
Height of lower link hitch points when locked in transport position	165 mm above or	230 mm below



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OPTIONAL TESTS

(9) ENGINE PERFORMANCE

Date of tests: 5th November 1981
Type of dynamometer: SCHENCK eddy-current dynamometer W 150

Power kW	Engine speed rev/min	Fuel consumption hourly l/h	hourly kg/h	specific g/kWh	Specific energy kWh/l
Maximum power					
At 2-hour test					
53.4	2300	15.12	12.52	234	3.53
At standard p.t.o. speed (1000 rev/min)					
51.6	2167	14.47	11.98	232	3.56
At the speed recommended for drawbar work					
53.4	2300	15.12	12.52	234	3.53
Part loads					
(i) 85% of the torque at maximum power at 2-hour test					
46.6	2363	12.82	10.61	228	3.64
(ii) unloaded					
-	2450	3.14	2.60	-	-
(iii) 50% of the load defined in (i)					
23.7	2400	7.57	6.27	265	3.13
(iv) maximum power					
53.4	2300	15.12	12.52	234	3.53
(v) 25% of the load defined in (i)					
12.0	2428	5.24	4.34	361	2.29
(vi) 75% of the load defined in (i)					
35.2	2380	10.04	8.31	236	3.51

Optimum fuel consumption: 212 g/kWh at 24.9 kW and 1265 rev/min
No load maximum engine speed: 2450 rev/min
Torque at maximum power (2 hours): 222 Nm
Maximum torque: 245 Nm at 1603 rev/min of the engine

Mean atmospheric conditions:	temperature	21 °C
	pressure	1007 mbar
	relative humidity	55 %
Maximum temperatures:	cylinder head	69 °C
	engine oil	98 °C
	fuel	21 °C
	engine air intake	19 °C

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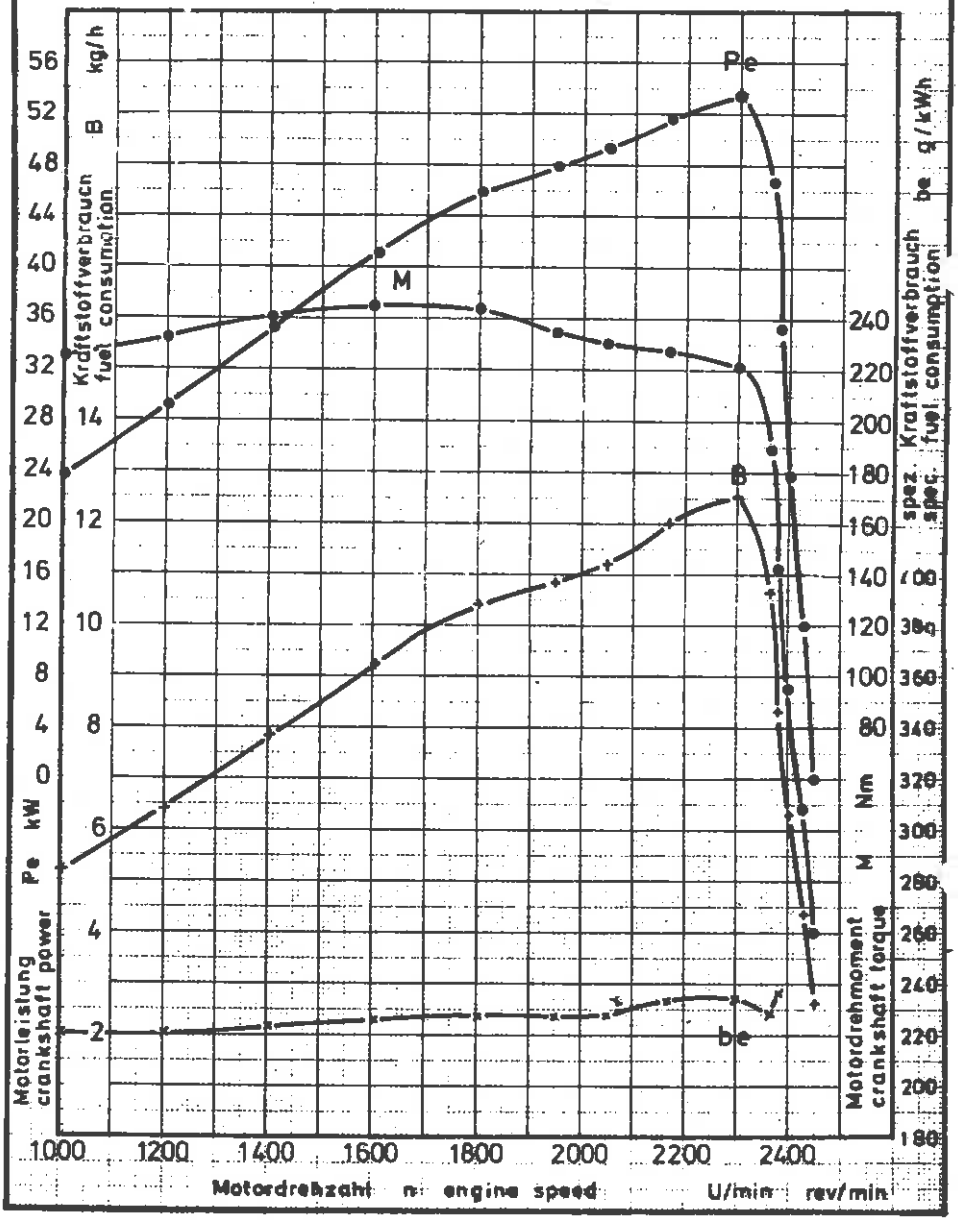
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Motorleistung

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Engine performance

Test Nr. 80-126



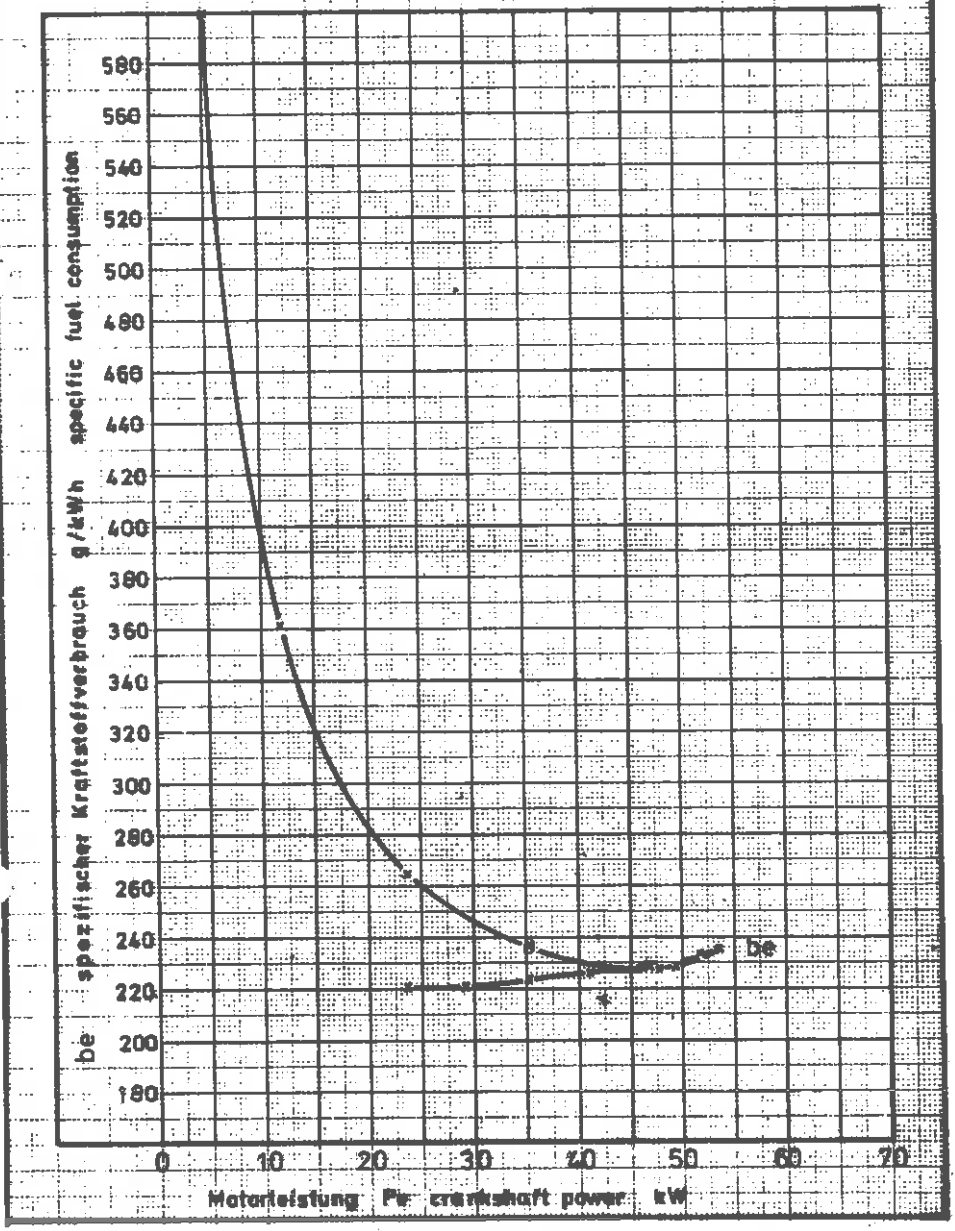
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Motorleistung

Engine performance

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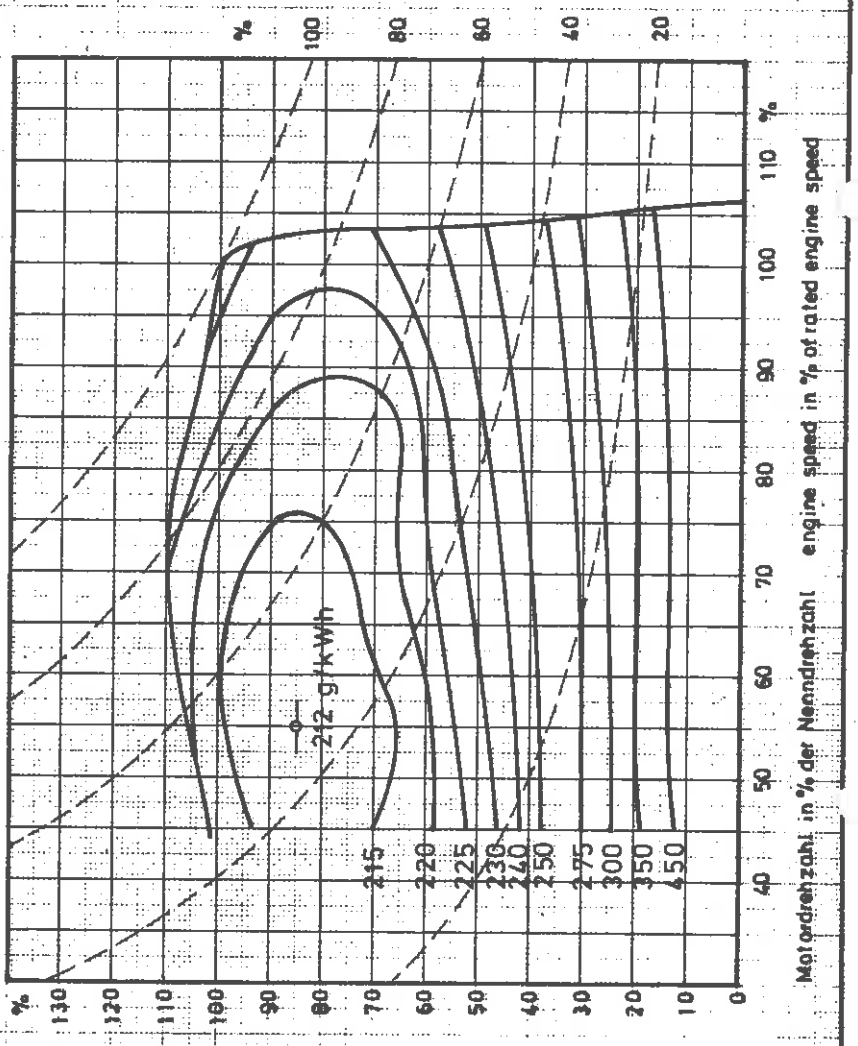
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Motorleistung

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