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

O.E.C.D. No. 857



Agricultural Tractor DEUTZ-FAHR D 4007 (2WD)

Type denomination D 4006

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

Deutsche Landwirtschafts-Gesellschaft e. V.
Zimmerweg 16 · D-6000 Frankfurt a. M. 1
Telefon: (0811) 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: December 1981 till April 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.E.M.A.G.R.E.F., France) as being in accordance with the O.E.C.D. STANDARD CODE.

Date of Approval: 7th December 1982 O.E.C.D. No. 857

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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Printed in the Federal Republic of Germany
March 1983; DLG-No. 178

PRÜFUNGS-ABTEILUNG

DEUTZ-FAHR D 4006 Test No. 80-129

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DEUTZ-FAHR D 4006

Test No. 80-129

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-FAHR
Trade name:	D 4007
Typ denomination:	D 4006
Type:	Wheel tractor, unit construction, rear wheel driven
Serial No.:	7540 5103

Engine

Make:	DEUTZ
Model:	F3L 912
Type:	4-stroke Diesel-engine, direct injection, air cooled
Serial No.:	6446 333
Cylinders:	3, in-line, bore 100 mm, stroke 120 mm; displacement 2827 cm^3, compression ratio 17; replaceable ribbed cylinders
Valves:	Overhead
Fuel system:	PIERBURG fuel feed pump PE 15252 BOSCH in-line injection pump PES 3A 80D 410/3 RS 1324; manufacturer's production setting 42 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 70 l

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Governor:	BOSCH mechanical variable-speed governor EP/RSV 325-1150 A8B 657 DL, governed range 700 to 2250 rev/min; rated engine speed 2150 rev/min
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, 2195 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 7,5 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 optional over -10°C to +30°C SAE 20W/40
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 acid battery 88 Ah at 20 hours rating

Transmission

Clutch:	LAMELLEN UND KUPPLUNGSBAU GMBH DT 225/225 N dry double disc type clutch, pedal operated with pressure point; clutch discs for drive and p.t.o. each 225 mm dia
Gear box:	DEUTZ-FAHR TW 35.1 speed change gear with 4 forward speeds and 1 reverse speed, 1st-, 2nd and reverse speed sliding gear shifted, 3rd and 4th speed collar shifted; group gear with 2 groups (L and S), L-group sliding gear shifted, S-group collar shifted; totally 8 forward and 2 reverse speeds
Rear axle and final drive:	DEUTZ-FAHR bevel gear drive to intermediate shaft, cylindrical gear transmission from intermediate shaft to bevel gear differential with lock on rear axle; differential lock pedal operated, self disengaging
Front axle:	Not propelled
Gear lubrication:	Oil capacity for complete gearbox and rear axle 16 l, recommended oil gear oil SAE 90 API-GL 4 or engine oil SAE 20W/20 API-CC or API-CD oil change 1000 operating hours

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Total ratios and speeds (tyres 13.6 - 28)

Group	Gear	Total ratio engine : driving wheels	Nominal travelling speed*) at rated engine speed km/h
Forward speeds			
L	1	264,82	1,87
	2	197,56	2,50
	3	129,26	3,83
	4	90,87	5,44
S	1	60,59	8,16
	2	45,20	10,94
	3	29,57	16,72
	4	20,79	23,78
Reverse speeds			
L	R	197,56	2,50
S	R	45,20	10,94

*) calculated with the radius index 610 mm

Power-take-off

Independent p.t.o.
driven by the second disc of the dual disc clutch;
at rear of tractor, 5 mm to the left of tractor's median plane,
570 mm above ground, p.t.o. shaft end
404 mm behind rear axle centre line,
35 mm dia, 6 splines ISO 500/DIN 9611 type 1

540 rev/min p.t.o.

621 rev/min at rated engine speed,
standard p.t.o. speed 540 rev/min at engine speed 1869 rev/min
direction of rotation clockwise, viewed from tractor rear
optionally available shiftable p.t.o. with 540 and 1000 rev/min and hand lever operation

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Power lift	DEUTZ-FAHR 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 M 8 KS 14 directly driven by engine; displacement 14,5 cm^3/rev or 34 l/min at rated engine speed, hydraulic oil filter incorporated in power lift unit, filter change period 500 operating hours
	DEUTZ-FAHR maximum working pressure 175 + 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-FAHR-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; by oil tap may be taken off 7 l if tractor is standing or travelling
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

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Implement linkage: Three point linkage, joint balls according to ISO 730/I category 1; dimensions see p.24; lift rods adjustable from 520 to 650 mm; with mean length 585 mm of lift rods lifting range above ground from 200 to 785 mm

Pull attachment

Trailer hitch: DEUTZ-FAHR
AK 56, non automatical;
height above ground adjustable to 715 or 770 mm by shifting;
coupling pin 32 mm dia;
distance of hitch hole centre:
to rear axle centre line 496 mm
to p.t.o. shaft end 92 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 680 mm,
thickness 30 mm, width 70 mm;
centre hole and 3 holes in 80 mm distance each on either side, all holes 22 mm dia;
distance of holes' centre line with lower links in horizontal position:
from rear axle centre 905 mm
from p.t.o. shaft end 501 mm

with lift rods mean length 585 mm:
height above ground adjustable by power lift in the range from 215 to 800 mm;
the drawbar may be mechanically hydraulically fixed in the height of 440 mm above ground

these datas were determined at the surface of the bar

Towing hitch: Height above ground 620 mm

Steering	ZAHNRADFABRIK FRIEDRICHSHAFEN 7328 mechanical, acting on front axle
Brakes	
Parking brake:	Internal shoe type brake operated by hand lever with ratchet; 1 brake drum on intermediate shaft, on the right outside of gearbox brake drum 180 mm dia, 30 mm width
Service brake:	PERROT pedal operated muscle power brake with mechanical transmission; internal shoe type brakes acting on the differential half shafts of rear axle, 1 brake drum with 350 mm dia and 60 mm width each at the rear wheels
Steering brake:	Divided pedal of service brake, for normal braking locked together
Wheels	
Steered wheels:	At front, 2 pneumatics 7.50-16 6 ply, maximum permissible load per tyre 745 kg at 2,25 bar inflation pressure and 30 km/h; track width adjustable from 1290 mm to 1890 mm in steps of 100 mm each by extending telescopic front axle; rims 5.00 F x 16
Driving wheels:	At rear, 2 pneumatics 13.6 R 28 6 ply, radial type tyre casing; maximum permissible load per tyre 1430 kg at 1,6 bar inflation pressure and 30 km/h; track width adjustable from 1320 mm to 1720 mm in steps of 100 mm each by offset lug type rims; rims W11 x 28
Wheel base:	1995 mm
Safety frame	FRITZMEIER model 901, OECD tested approval no. CSD 0525/2 modif. D/1 4 post frame made of square tube with longi- tudinal and transverse bracing, rigidly mounted on tractor; modification D/1 refers to change of trade denomination D 4006 to D 4007

Seat	GRAMMER model DS 20D 3H upholstered seat with back rest; adjustable spring with shock absorber; height of driver's platform 670 mm above ground, height of unballasted seat in front- and lowermost position 520 mm above platform; seat on an inclined plane adjustable in longitudinal direction by 240 mm and simultaneously in the height by 110 mm; additional independent height adjustment of 120 mm in 8 steps
Number of grease points	14

Dimensions

Total length:	3535 mm without ballast 3855 mm with ballast
Total width:	1665 mm without ballast 1745 mm with ballast
Total height:	2280 mm to top of safety frame
Ground clearance:	410 mm below gear box

Available tyres

Tyre size	
at front	at rear
6.00 - 16 6 ply	9.5 - 36 6 ply 11.2 - 28 6 ply
6.50 - 16 6 ply	11.2 - 32 6 ply 12.4 - 28 6 ply
7.50 - 16 6 ply	12.4 - 32 6 ply 13.4 - 28 6 ply

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

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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	870	665
Side lights	85 x 30	1320	205
Rear lights	85 x 30	1205	220
Reflectors	75 dia	960	105

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 1290 mm
at rear 1320 mm

Weights As used for drawbar performance test

		Without driver	With driver
Without ballast:	front	785 kg	790 kg
	rear	1285 kg	1360 kg
	total	2070 kg	2150 kg
Front ballast:	7 weights, total		280 kg
Rear ballast:	water in the tyres		375 kg
	4 weights per rear wheel, total		390 kg
With ballast:	front	1175 kg	1180 kg
	rear	1940 kg	2015 kg
	total	3115 kg	3195 kg

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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		0,828 kg/l
	at drawbar performance test		0,848 kg/l
Engine oil:	SHELL ROTELLA	SAE 20W/20	API CC
Gear oil:	ESSOLUBE	SAE 90	API GL-4
	gearbox inclusive of rear axle		
Hydraulic oil:	SHELL ROTELLA	SAE 20W/20	API CC

COMPULSORY TESTS

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

Date of tests: 25th February 1982
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						
29.1	2150	621	8.12	6.73	231	3.59
At standard p.t.o. speed						
27.0	1869	540	7.34	6.08	225	3.68
At the speed recommended for drawbar work						
29.1	2150	621	8.12	6.73	231	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						
25.2	2191	633	7.27	6.02	239	3.47
(ii) unloaded						
-	2242	648	2.27	1.88	-	-
(iii) 50% of the load defined in (i)						
12.8	2215	640	4.63	3.83	300	2.76
(iv) maximum power						
29.1	2150	621	8.12	6.73	231	3.59
(v) 25% of the load defined in (i)						
6.4	2225	643	3.41	2.82	440	1.88
(vi) 75% of the load defined in (i)						
19.0	2202	636	5.91	4.89	257	3.22

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						
23.2	1887	545	6.34	5.25	227	3.65
(ii) unloaded						
-	1945	562	1.79	1.48	-	-
(iii) 50% of the load defined in (i)						
11.8	1923	556	3.96	3.28	277	2.99
(iv) maximum power						
27.0	1869	540	7.34	6.08	225	3.68
(v) 25% of the load defined in (i)						
5.9	1926	556	2.88	2.38	402	2.06
(vi) 75% of the load defined in (i)						
17.6	1914	553	5.18	4.29	243	3.41

Standard specific fuel consumption (g/kWh): 239/300/227/277

No load maximum engine speed: 2242 rev/min
Equivalent crankshaft torque at maximum power (2 hours): 129 Nm
Maximum equivalent crankshaft torque: 145 Nm at 1603 rev/min of the engine

Mean atmospheric conditions:	temperature	21 °C
	pressure	990 mbar
	relative humidity	25 %
Maximum temperatures:	cylinder head	78 °C
	engine oil	108 °C
	fuel	23 °C
	engine air intake	21 °C

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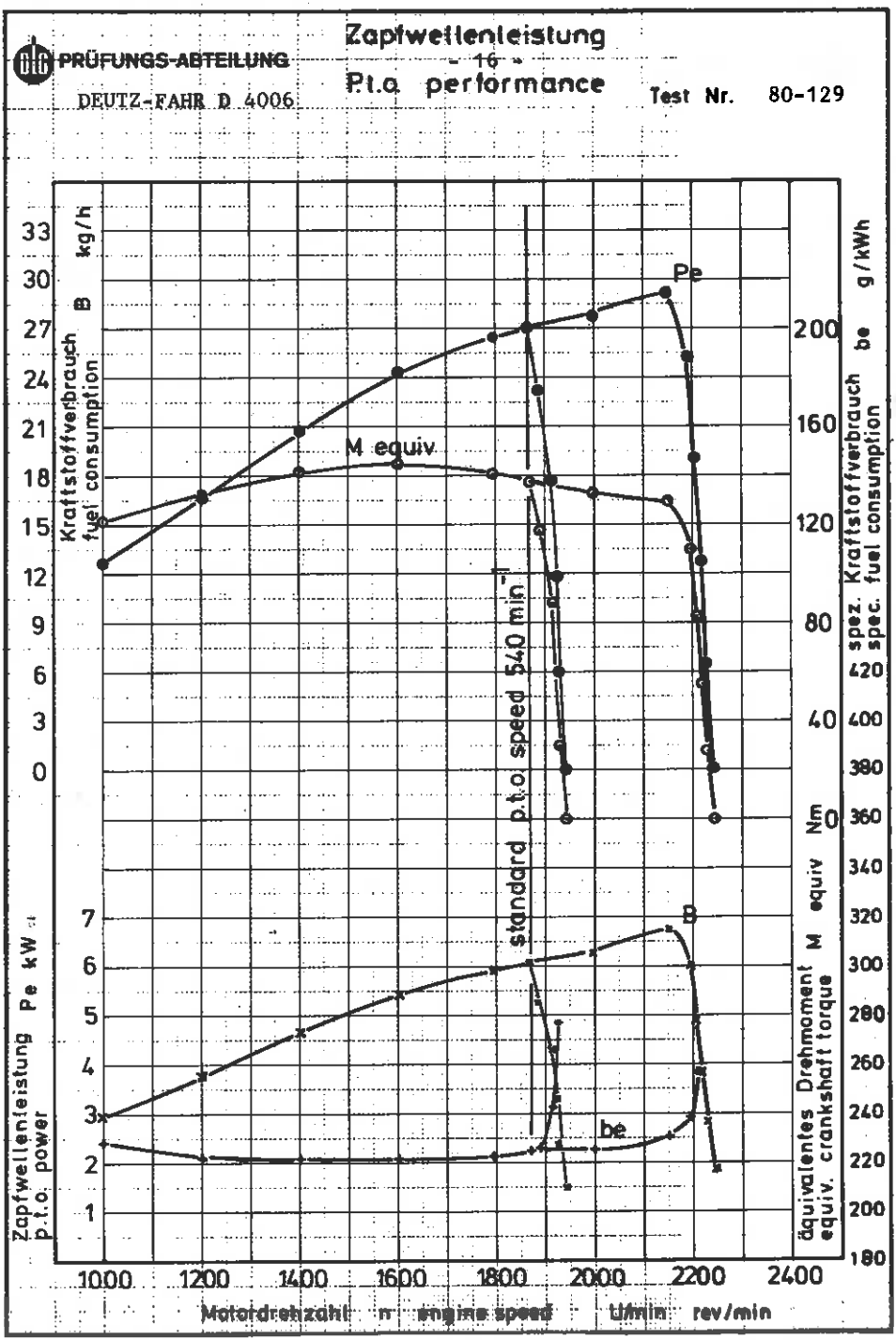
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Zapfwellenleistung

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P.t.o. performance

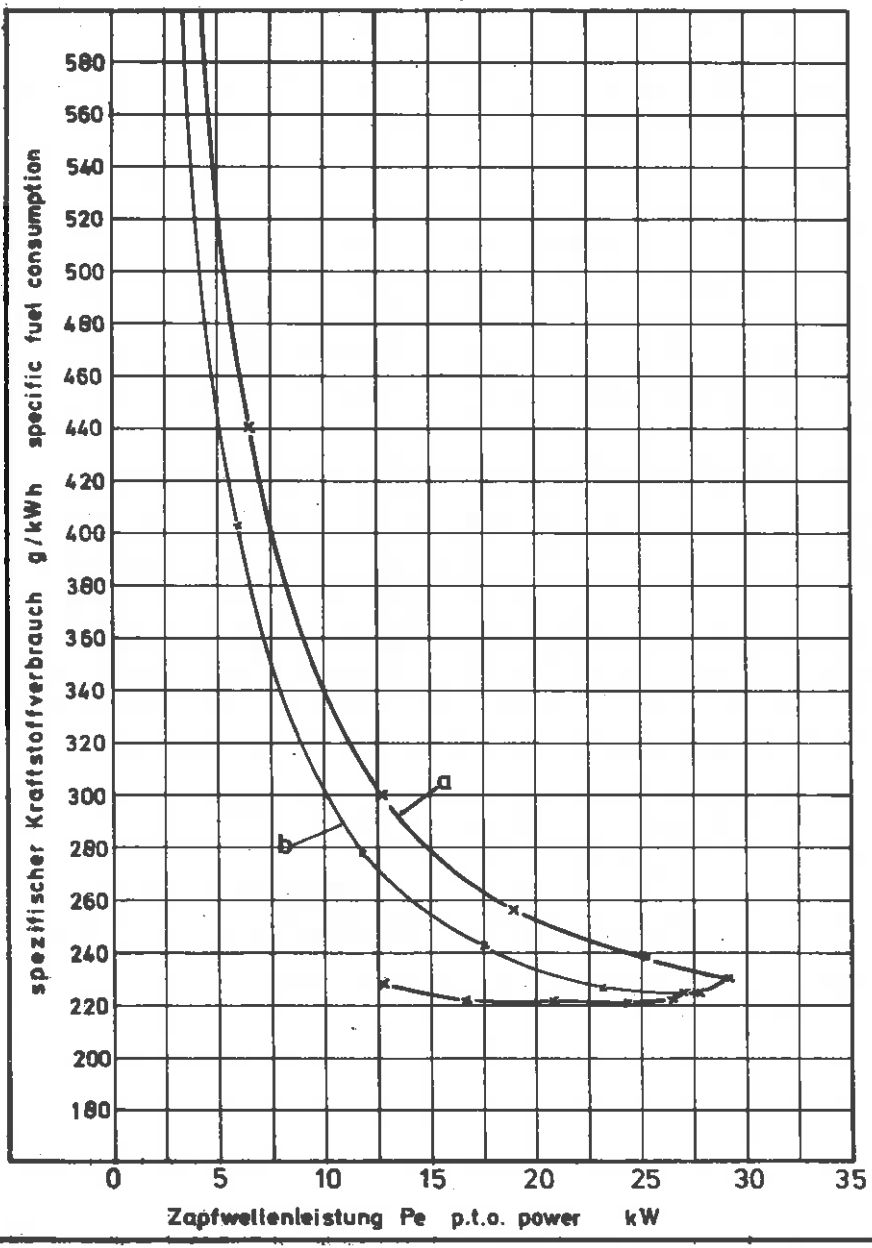
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P.t.o. performance

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(2) DRAWBAR PERFORMANCE

Date of tests: 27th till 29th April 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 610 mm					
2 L	2,21	12,3	1999	2216	15,0
3 L	3,35	18,5	1983	2204	14,9
4 L	4,79	23,0	1727	2152	12,5
1 S	7,59	23,5	1116	2154	7,8
2 S	10,39	23,7	820	2153	5,6
3 S	16,22	23,0	511	2150	3,5
(ii) MAXIMUM POWER (ballasted) height of drawbar above ground 660 mm					
1 L	1,63	12,4	2743	2207	15,1
2 L	2,17	16,4	2726	2191	15,0
3 L	3,31	22,9	2492	2150	13,6
4 L	4,93	23,8	1734	2151	9,2
1 S	7,67	23,3	1092	2151	5,7
2 S	10,42	24,1	833	2151	4,3
3 S	16,07	23,2	520	2146	2,8
(iii) FIVE-HOUR-TEST at 75 % of pull at maximum power in 1 S gear					
1 S	7,93	18,0	819	2192	4,3
(iv) FIVE-HOUR-TEST at pull corresponding to 15 % wheel slip in test (ii)					
2 L	2,23	17,0	2744	2202	-

Total oil consumption during ten hours duration of tests (iii) and (iv) 41 g/h

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Tyre size front: 7.50 - 16 6 ply
rear: 13.6 - 28 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							
369	2,30	15	50	72	9	76	1008
316	2,69	14	50	75	9	75	1008
295	2,88	32	60	84	9	74	1008
288	2,95	33	65	85	13	72	1008
283	3,00	35	68	89	13	72	1008
292	2,90	34	67	84	13	67	1008
tyre inflation pressure 0,9 bar							
374	2,24	30	55	70	9	87	998
332	2,51	29	49	75	9	85	998
295	2,83	29	61	80	9	89	998
284	2,94	31	62	81	9	87	998
292	2,86	32	63	82	9	86	998
282	2,96	31	62	83	9	88	998
288	2,90	31	61	81	9	86	998
298	2,80	12	60	70	9	85	998
-	-	33	66	85	11	85	994

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 - 16 6 ply
rear: 13.6 - 28 6 ply

Track of wheels front: 1290 mm
rear: 1320 mm

	With brakes left-hand m	With brakes right-hand m	Without brakes left-hand m	Without brakes right-hand m
Radius of turning space	3,52	3,28	4,04	3,86
Radius of turning circle	3,36	3,23	3,88	3,71

(4) LOCATION OF CENTRE OF GRAVITY

Height above ground	767 mm
Distance forward from rear axle centre	736 mm
Distance from tractor's median plane to the left	2 mm

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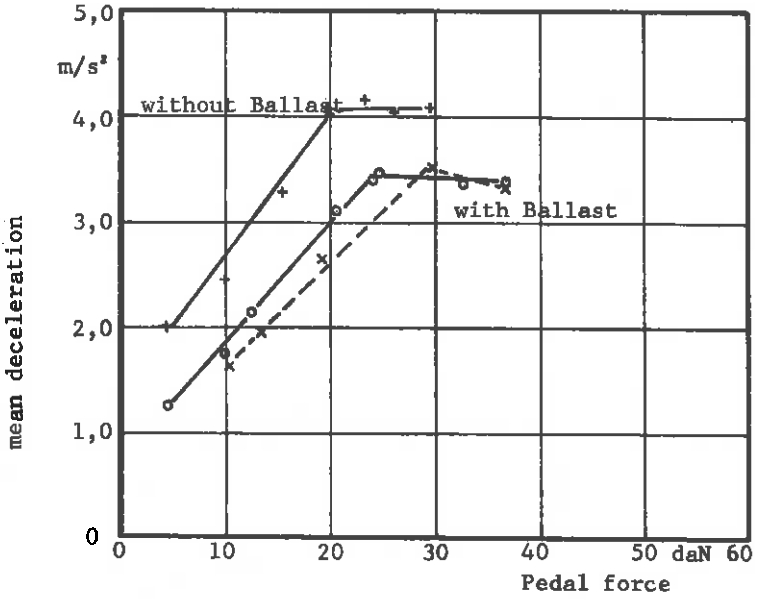
(5) Braking

Date of tests: 28th April 1982

Tractor masses during tests with driver:	front kg	rear kg	total kg
without ballast	790	1360	2150
with ballast	1550	1645	3195

A) Service brake

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



Speed before application of brakes, without ballast 24,6 km/h
with ballast 24,5 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 2150 kg	
	up	down	up	down
Braking device control force daN	16	20	15	19

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(6) MEASUREMENT OF EXTERNAL NOISE LEVEL

Date of test: 27th April 1982
Type of track: Concrete
Type of sound level meter: BRÜEL AND KJAER model 2203

Results of test

Gear: 4 S
Travelling speed before acceleration: 18,4 km/h
Sound level: 86,0 dB(A)

(7) NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of tests: 27th April 1982
Type of track: Concrete
Type of sound level meter: BRÜEL AND KJAER model 2209
The tractor was equipped with FRITZMEIER safety-frame

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	1956	1,87	1,64	93,5
2 L	1994	2,50	2,18	95,0
3 L	1989	3,83	3,29	94,5
4 L	1702	5,44	4,76	96,0
1 S*)	1099	8,16	7,65	96,0
1 S*)	light load	8,16	8,55	91,0
2 S	826	10,94	10,37	97,5
3 S	510	16,71	16,19	95,5
4 S	light load	23,78	24,55	92,5

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

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(8) POWER LIFT AND HYDRAULIC PUMP PERFORMANCE

Date of tests: 3rd March 1982

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	200	585	1620	158	-	-
On the frame	200	680	1220	158	1848	11

Temperature of hydraulic fluid at start of test 65 °C

Lifting heights relative to horizontal lower links

mm	-245	-200	-100	0	+100	+200	+300	+340	+400	+435
Lifting forces at hitch points										
daN	1630	1670	1740	1780	1760	1780	1800	1910		
Lifting forces at test frame										
daN	1580	1550	1520	1500	1450	1370	1280		1220	1220

Hydraulic Pump Performance

Opening pressure of the relief valve in remote circuit	168 bar
Sustained pressure with relief valve open	181 bar
Pump delivery rate at minimum pressure, the governor control lever being set for max. power	34,6 l/min
Hydraulic power at 90% of relief valve setting	9,0 kW
Corresponding delivery rate	33,1 l/min
Pressure	163 bar
Temperature of hydraulic fluid	65 °C

Tapping point used for test: rear of tractor

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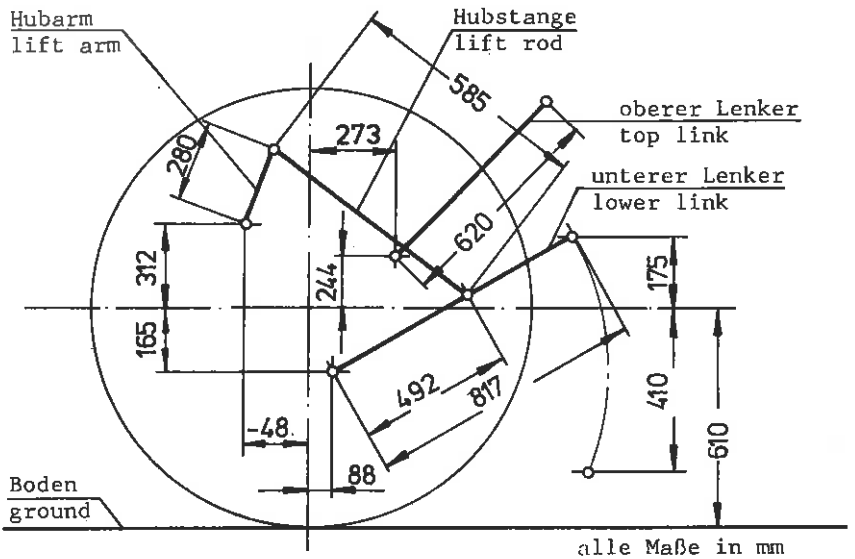
LINKAGE GEOMETRY when connected to the standard frame

Projected length in side view:

Lower links	817 mm
Lift arms	280 mm
Lift rods	585 mm
Top link	620 mm
Distance of lift rod connection point from pivot point of lower link	492 mm

The following dimensions are given relative to the rear wheel centre line, situated 610 mm above ground:

Lower link pivot point	88 mm behind,	165 mm below
Top link pivot point	273 mm behind,	244 mm above
Lift arm pivot point	48 mm behind,	312 mm above
Maximum and minimum height of lower link hitch points	410 mm below,	175 mm above
Height of lower link hitch points when locked in transport position	170 mm below	



alle Maße in mm
all dimensions in mm

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OPTIONAL TESTS

(9) ENGINE PERFORMANCE

Date of tests: 16th February 1982
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					
30.4	2150	8.17	6.76	222	3.73
At standard p.t.o. speed (540 rev/min)					
28.8	1869	7.51	6.22	216	3.83
At the speed recommended for drawbar work					
30.4	2150	8.17	6.76	222	3.73
Part loads					
(i) 85% of the torque at maximum power at 2-hour test					
26.5	2202	7.33	6.07	229	3.62
(ii) unloaded					
-	2247	2.14	1.78	-	-
(iii) 50% of the load defined in (i)					
13.4	2231	4.71	3.90	291	2.85
(iv) maximum power					
30.4	2150	8.17	6.76	222	3.73
(v) 25% of the load defined in (i)					
6.7	2238	3.42	2.83	422	1.96
(vi) 75% of the load defined in (i)					
20.0	2218	5.97	4.95	247	3.35

Optimum fuel consumption: 212 g/kWh at 22.4 kW and 1403 rev/min
No load maximum engine speed: 2247 rev/min
Torque at maximum power (2 hours): 135 Nm
Maximum torque: 156 Nm at 1597 rev/min of the engine

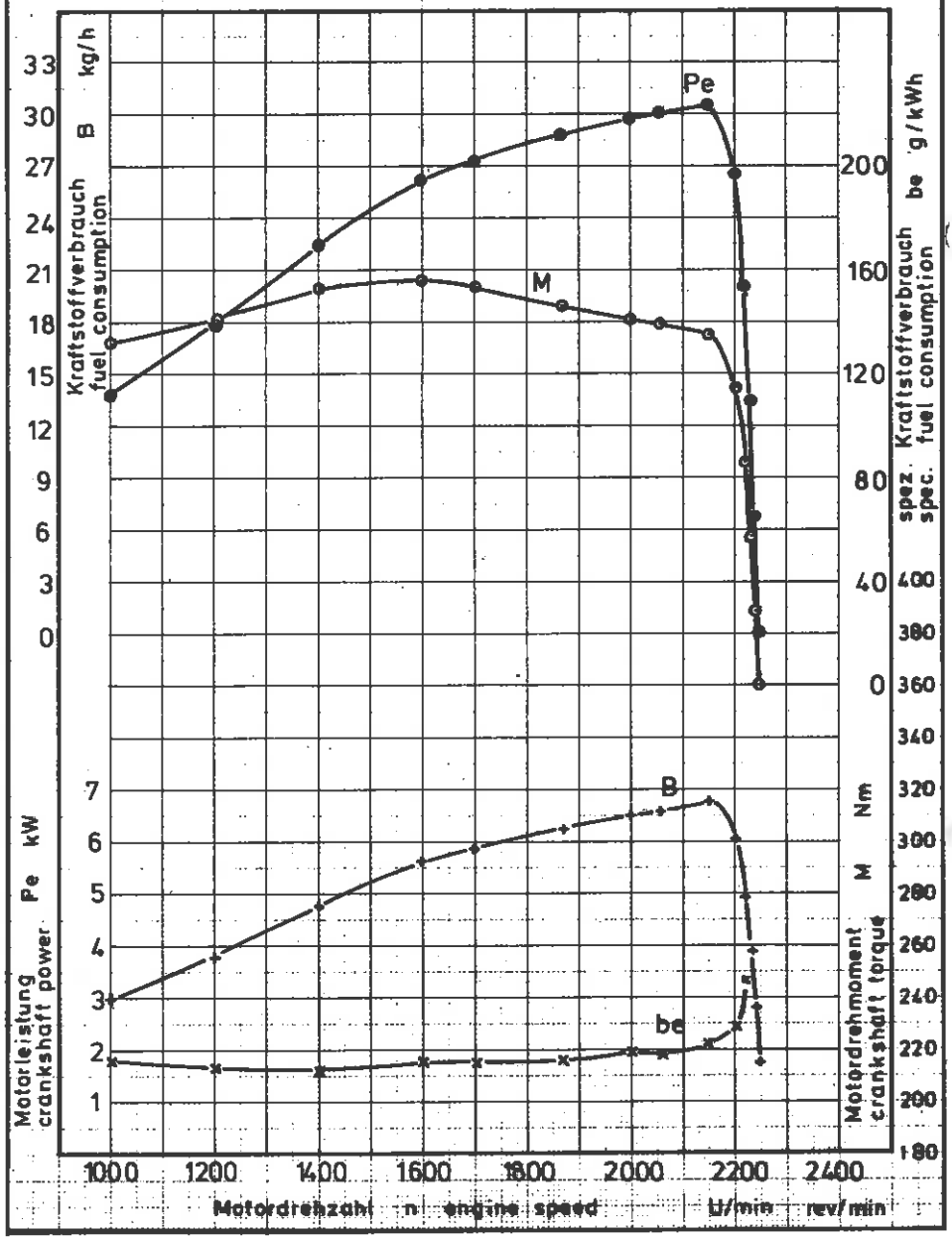
Mean atmospheric conditions:	temperature	20 °C
	pressure	1001 mbar
	relative humidity	33 %
Maximum temperatures:	cylinder head	63 °C
	engine oil	92 °C
	fuel	21 °C
	engine air intake	20 °C

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Motorleistung
Engine performance

Test Nr. 80-129



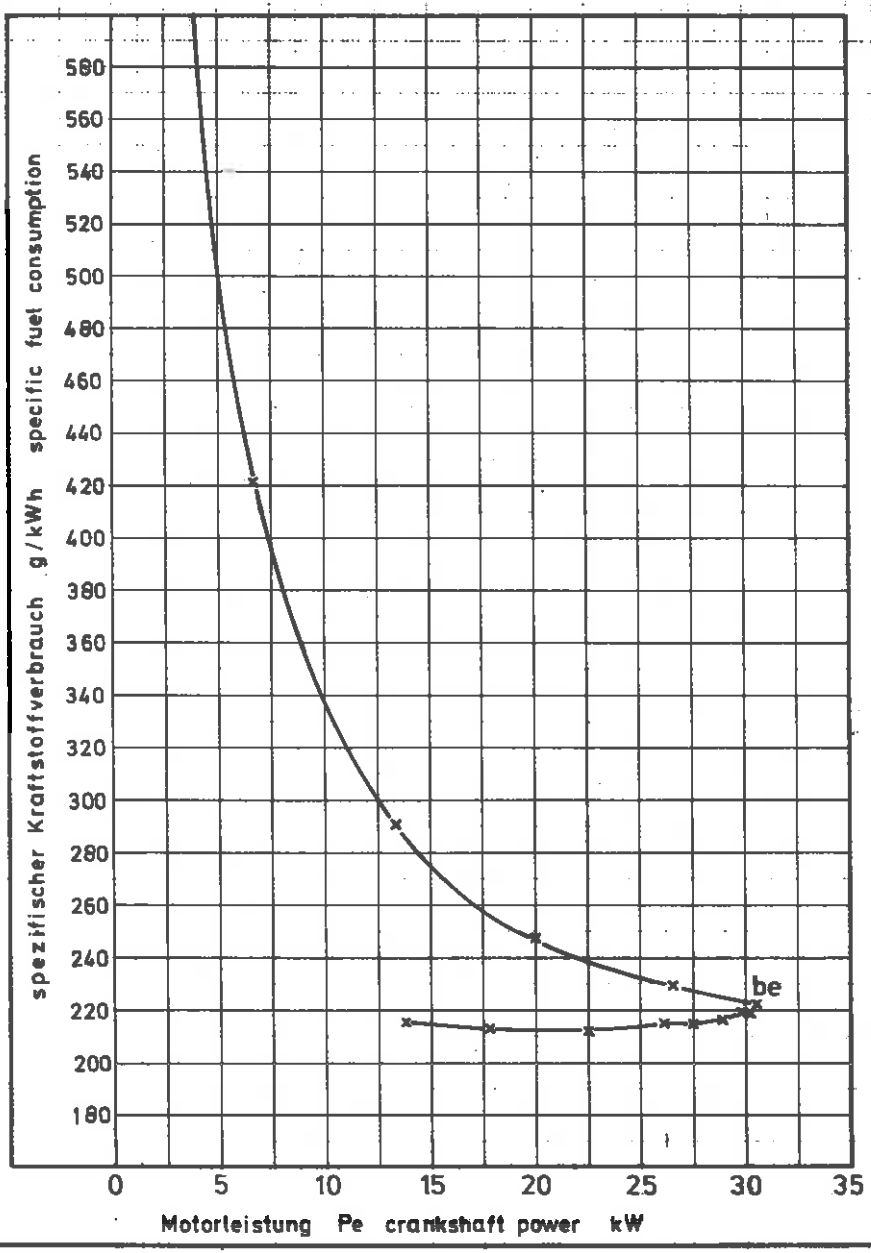
PRÜFUNGS-ABTEILUNG

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Motorleistung

Engine performance

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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

Published
with the support of the Federal Minister for Food, Agriculture and Forestry

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