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

O.E.C.D. No. 632



Agricultural Tractor DEUTZ DX 36-V

Manufacturer
Klöckner-Humboldt-Deutz AG, D-5000 Köln 80

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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.

Performance of tests: July 1978 till April 1979

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: 7th June 1979 O.E.C.D. No. 632

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/cm^2	or 1 kp/cm^2	= 0,981 bar
	1000 mbar = 750,1 mm Hg			

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TABLE OF CONTENTS

	Page
Specification of tractor	4 to 12
Fuel and lubricants used in tests	12
COMPULSORY TESTS	
(1) Main power take-off performance	14 to 17
(2) Drawbar performance on a concrete track	18 and 19
(3) Turning space and turning circle	20
(4) Location of centre of gravity	20
(5) Braking performance	21
(6) Ambient noise, emitted by the tractor	22
(7) Noise at the driver's ear level	22
(8) Power lift and hydraulic pump performance	23 to 26
OPTIONAL TESTS	
(9) Engine performance	27 to 30

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

Tractor manufacturer:	KLÖCKNER-HUMBOLDT-DEUTZ AG D-5000 Köln 80
Submitted for test by:	Manufacturer
Selected by:	Manufacturer with agreement by DLG
Place of running-in:	Köln
Duration of running-in:	Engine and tractor appr. 100 hours

SPECIFICATION OF TRACTOR

Tractor

Make:	KLÖCKNER-HUMBOLDT-DEUTZ AG
Model:	DX 36-V
Type:	Narrow track tractor, unit construction, rear wheel driven
Serial no:	75280001

Engine

Make:	KLÖCKNER-HUMBOLDT-DEUTZ AG
Model:	F2L 912
Type:	4-stroke DIESEL-engine with direct injection, air cooled
Serial no:	5716277
Cylinders:	2 in line, bore 100 mm, stroke 120 mm; displacement 1884 cm^3; compression ratio 17; replaceable ribbed cylinder liners
Valves:	Overhead
Fuel system:	PIERBURG fuel feed pump PE 15252; DEUTZ injection pump; manufacturer's production setting 52 mm^3/stroke at rated engine speed; injection timing 38° before T.D.C.; BOSCH multihole injection nozzles DLLA 149 S 394, injection pressure 175 bar; MANN fuel filter with replaceable cartridge; capacity of fuel tank 42 l
Governor:	DEUTZ centrifugal variable speed governor, governed range of engine speed 750 to 2635 rev/min, rated engine speed 2500 rev/min

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

Air cleaner:	MANN dry paper element filter with replaceable cartridge
Exhaust silencer:	DEUTZ 2-chamber expansion type silencer, 125 mm diameter, 460 mm long, on the right hand side below the engine mouth showing rearward
Lubrication system:	Forced feed from gear pump; strainer in sump; MANN screen type oil filter in full flow with by-pass valve, cleaning interval 200 hours; oil capacity 5,5 l; recommended oils and change intervals: MIL-L-2104 B 100 hours MIL-L-2104 C 200 hours recommended oil viscosities: below -5°C SAE 10W above -10°C to +10°C SAE 20W/20 above +5°C to +30°C SAE 30 above +25°C SAE 40
Cooling system:	Air cooling with axial blower, V-belt driven
Starting system:	Electrical BOSCH screw push starter motor JD 12V 3,7 kW; heating coil in intake pipe
Electrical equipment:	12 Volt, negative earth BOSCH three phase alternator G1 14V 33A; 1 battery 92 Ah at 20 hours rating, lead acid type

Transmission

Clutch:	LAMELLEN- UND KUPPLUNGSBAU GMBH dry dual disc clutch DT 225/225, both discs 225 mm diameter; driving part pedal operated, p.t.o. part hand lever operated

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

Gear box: AGRIFULL S.P.A. Italy
speed change gear with 3 forward speeds and 1 reverse speed, collar shifted,
group gear with 3 groups (slow L, intermediate Z and fast S), collar shifted
totally 9 forward and 3 reverse speeds

Rear axle and final drive: Bevel gear with crown wheel and pinion;
bevel gear differential with pedal operated lock, self disengaging;
spur gear final drives

Lubrication: Transmission oil SAE 90 MIL-L-2105
gear box and rear axle drive 14,5 l
final drives 3,5 l each
oil changing period 1200 hours

Total ratios and speeds (tyres 11,2 R 24)

Group	Gear	Total ratio engine : driving wheel	Nominal travelling speed *) at rated engine speed km/h	at standard p.t.o. speed 540 rev/min km/h
Forward speeds				
L	1	274,23	1,77	1,60
	2	196,78	2,47	2,23
	3	151,23	3,21	2,90
Z	1	109,48	4,43	4,00
	2	78,56	6,18	5,58
	3	60,38	8,04	7,26
S	1	44,35	10,94	9,89
	2	31,83	15,25	13,78
	3	24,46	19,84	17,93
Reverse speeds				
L	R	230,53	2,11	1,90
Z	R	92,04	5,27	4,76
S	R	37,28	13,02	11,76

*) calculated with the INDEX RADIUS 515 mm as per WdK 154

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

Power take-off

Main p.t.o.:	Independent p.t.o.; driven by the hand lever operated second disc of the dual disc clutch; at rear of tractor, in the median plane, 465 mm above ground; 35 mm diameter, 6 splines, acc. to DIN 9611 and ISO 500 type 1; 598 rev/min at rated engine speed, standard p.t.o. speed 540 rev/min at 2258 rev/min engine speed; direction of rotation clockwise, viewed from tractor rear; p.t.o. speeds may be set by aid of tractormeter
Ground speed p.t.o.:	Main p.t.o. may be shifted to ground speed p.t.o.; travelling distance per 1 rev of the p.t.o. 0,43 m; 7,61 rev of p.t.o. per 1 rev of driving wheel, same direction of rotation as main p.t.o.

Power lift

Hydraulic system:	MITA, Italy MH 45L hydraulic power lift, unit construction; BOSCH gear type pump HY/ZFR 1/11 CL; delivery 11 cm^3/rev or 27,5 l at rated engine speed, directly driven by engine; MITA control valve for lifting, lowering, draft control, position control and floating position, top link control; maximum oil pressure 180 bar; single acting ram 84 mm bore, 90 mm stroke; overpressure relief valve for ram adjusted to 200 bar; 1 additional double acting control valve with oil tapping; hydraulically acting linkage lock for transport by lowering throttle;

	hydraulic oil tank in the power lift unit with 13 l capacity, up to 10 l may be taken off through oil tapping when tractor is driving or stationary; recommended oil engine oil SAE 20W/20 MIL-L-2104 B or MIL-L-2104 C oil changing interval 1000 hours
Implement linkage:	Three point linkage category I (DIN 9674), lift rods length adjustable from 400 to 470 mm; lifting range above ground: with short lift rods from 336 to 865 mm with long lift rods from 196 to 745 mm
Holed bar:	Short bar, fitted on clevis of lower links; length between the joint balls 680 mm, thickness of the bar 25 mm; centre hole and on either side 3 holes with 80 mm distance each; all holes 22 mm diameter; height above ground adjustable by power lift from 209 to 878 mm depending on lift rods length, measured at the surface of the bar; height above ground hydraulically fixable; distance of holes centre line with lower links in horizontal position: from rear axle centre 882 mm from p.t.o. shaft end 495 mm

Pull attachments

Trailer hitch:	ROCKINGER model 277, not automatical; height above ground 610 mm, not adjustable; hitch hole 33 mm diameter; distance of the hitch hole centre to rear axle centre 475 mm; permissible vertical load 400 kg
Towing hitch:	Height above ground 491 mm

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

Steering

CAM GEARS
mechanically acting by undivided track rod
on front wheels

Brakes

Parking brake: Mechanically acting dry disc type brake,
operated by hand lever with ratchet,
acting on 2 lining discs per wheelbrake,
on both differential half shafts,
discs 102 mm diameter;
optionally acting on the service brake discs

Service brake: AGRIFULL S.P.A.
mechanically acting dry disc type brake,
operated by pedal,
acting on 2 lining discs per wheelbrake,
on both differential half shafts,
discs 128 mm diameter

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

Wheels

Steered wheels: 2 pneumatics in front 5,00-15 AS Front 4 ply;
maximum permissible load per tyre 365 kg
at 2,5 bar inflation pressure and 30 km/h;
track width adjustable from 753 to 953 mm
and with turned wheels from 917 to 1117 mm
in steps of 100 mm by extending telescopic
half axles;
rims 4,00 E x 15

Driving wheels: 2 pneumatics at rear 11,2 R 24 AS 4 ply,
radial type tyre casing;
maximum permissible load per tyre 845 kg
at 1,3 bar inflation pressure and 30 km/h;
track width adjustable from 741 to 1099 mm
in steps of about 90 mm each by turning wheels
and offset lug type rims;
rims W9 x 24

Wheel base: 1705 mm

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

Overturning protection frame	AGRIFULL S.P.A. extensible steel tube guard not O.E.C.D.-tested
Seat	BOSTROM model RS upholstered seat with back rest adjustable spring with shock absorber; height of driver's platform above ground 450 mm; height of unloaded seat above platform 550 mm; for and aft adjustable about 150 mm, no adjustability of height

Weights — Ready for use as tested

		without driver	with driver
Without ballast:	front	550 kg	565 kg
	rear	860 kg	930 kg
	total	1410 kg	1495 kg
Front ballast:	3 front weights	35 kg each	105 kg
Rear ballast:	1 intermediate ring per wheel	35 kg each	70 kg
	3 weights per wheel	50 kg each	300 kg
With ballast:	front	685 kg	700 kg
	rear	1200 kg	1270 kg
	total	1885 kg	1970 kg

Number of grease points 16

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

Track setting — during test
at front 753 mm
at rear 741 mm

Dimensions

Total length: 3120 mm without ballast
3390 mm with ballast

Total width: 1028 mm without ballast
side lights turned in
1115 mm without ballast
side lights turned out
1475 mm with ballast

Total height: 1500 mm protection frame pushed in
1980 mm protection frame drawn out

Ground clearance: 215 mm below exhaust silencer

Lighting 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 ø	776	420
Side lights *)	30 x 80	1223	40
Rear lights *)	30 x 80	1223	40
Reflectors			
1st pair	80 ø	1100	149
2nd pair	80 ø	335	468

*) lights swingable, measured in turned out position

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

Permissible total weights and axle loads

for all available wheel equipment

Wheel equipment front	Wheel equipment rear	Permissible total weights kg	Permissible axle load front kg	Permissible axle load rear kg
4,00-15 4 ply or 5,00-15 4 ply	9,5-24 4 ply	2270	690	1580
	11,2-24 4 ply	2490	690	1800

FUELS AND LUBRICANTS USED IN TESTS

Fuel: ARAL-DIESEL-fuel DIN 51601

specific gravity at 15°C

- at engine tests 0,833 kg/l
- at p.t.o. tests 0,833 kg/l
- at drawbar tests 0,826 kg/l

Engine oil:	SHELL ROTELLA TX SAE 20W/20	MIL-L-2104 B
Transmission oil:	SHELL SPIRAX EP SAE 90	MIL-L-2105
Hydraulic oil:	SHELL ROTELLA TX SAE 20W/20	MIL-L-2104 B

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

TEST RESULTS

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

COMPULSORY TESTS

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

Date of tests: 4th August 1978
Type of dynamometer: SCHENCK hydraulic dynamometer U1-40

Power kW	Speed engine rev/min	Speed p.t.o. rev/min	Fuel consumption total l/h	Fuel consumption total kg/h	Fuel consumption specific g/kWh	Specific energy kWh/l
Maximum power						
At 2-hour test						
24.1	2500	598	7.93	6.61	274	3.04
At standard p.t.o. speed						
22.4	2258	540	6.95	5.79	259	3.22
At the speed recommended for drawbar work						
24.1	2500	598	7.93	6.61	274	3.04
Part loads, the governor hand lever in the position corresponding to the maximum power at full load						
(i) 85% of the torque at maximum power at 2-hour test						
20.9	2550	610	6.82	5.68	272	3.06
(ii) unloaded						
-	2618	626	2.44	2.03	-	-
(iii) 50% of the load defined in (i)						
10.6	2591	620	4.54	3.78	356	2.34
(iv) maximum power						
24.1	2500	598	7.93	6.61	274	3.04
(v) 25% of the load defined in (i)						
5.3	2606	623	3.45	2.88	541	1.54
(vi) 75% of the load defined in (i)						
15.8	2578	617	5.64	4.69	297	2.81

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

Power kW	Speed engine rev/min	Speed p.t.o. rev/min	Fuel consumption total l/h	Fuel consumption total 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						
(i) 85% of the torque at maximum power at 2-hour test						
19.5	2312	553	6.15	5.12	263	3.17
(ii) unloaded						
-	2388	571	2.04	1.70	-	-
(iii) 50% of the load defined in (i)						
9.9	2353	563	3.97	3.30	334	2.49
(iv) maximum power						
22.4	2258	540	6.95	5.79	259	3.22
(v) 25% of the load defined in (i)						
5.0	2374	568	2.99	2.49	498	1.67
(vi) 75% of the load defined in (i)						
14.7	2326	556	5.01	4.17	284	2.93

Standard specific fuel consumption (g/kWh): 272/356/263/334

No load maximum engine speed: 2618 rev/min
Equivalent crankshaft torque at maximum power (2 hours): 92 Nm
Maximum equivalent crankshaft torque: 98 Nm at 1810 rev/min of the engine

Mean atmospheric conditions:	temperature	25 °C
	pressure	998 mbar
	relative humidity	55 %
Maximum temperatures:	coolant	-
	engine oil	107 °C
	fuel	27 °C
	engine air intake	26 °C

PRÜFUNGS-ABTEILUNG

DEUTZ DX 36 V

Zapfwellenleistung

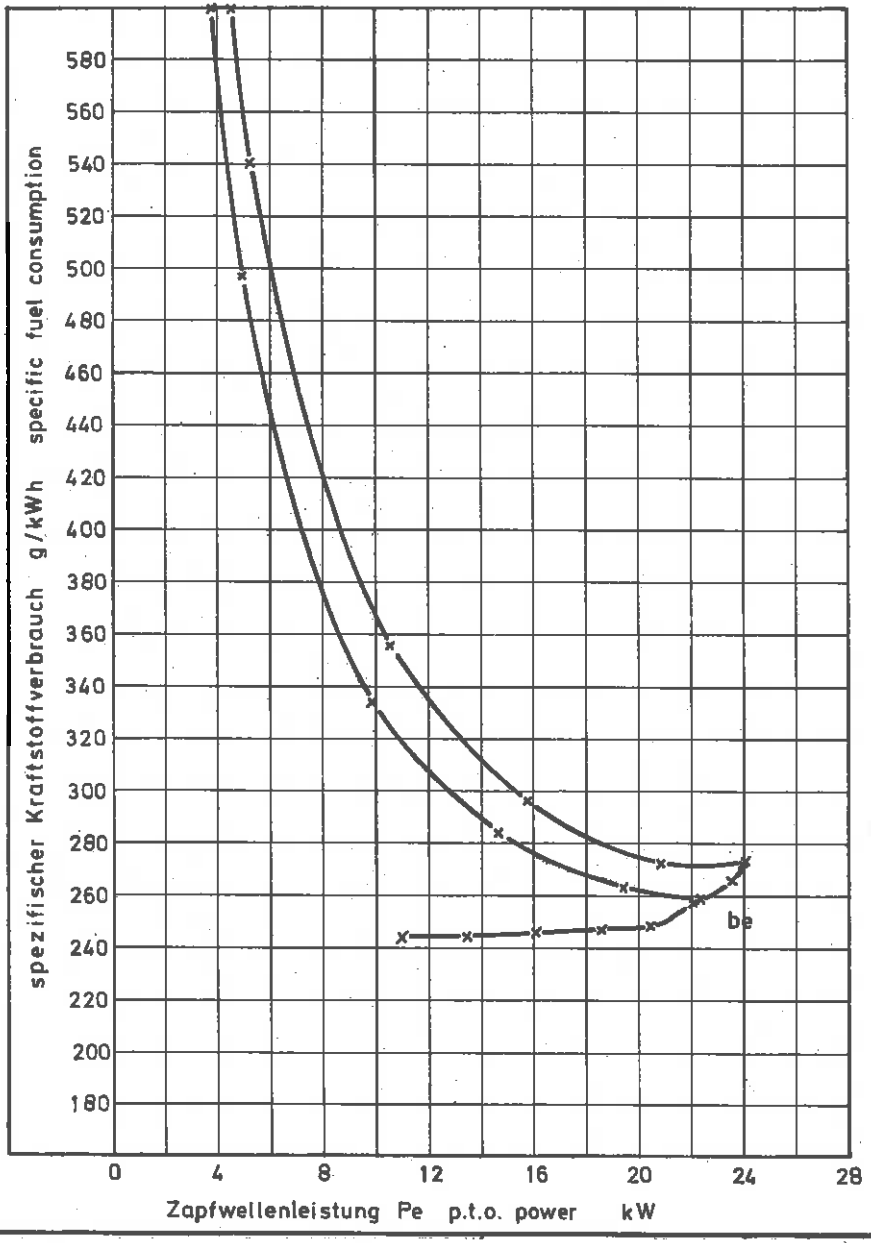
Pto performance

Test Nr. 78-97

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Zapfwellenleistung
P.t.o. performance

Test Nr. 78-87



PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

(2) DRAWBAR PERFORMANCE

Date of tests: 12th till 21st March 1979
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 with ballast height of drawbar above ground 525 mm					
1 L	1,57	7,5	1738	2594	15,1
2 L	2,17	10,5	1746	2586	15,1
3 L	2,81	13,7	1757	2568	15,0
1 Z	3,83	18,5	1743	2538	15,0
2 Z	5,61	20,7	1328	2502	9,1
3 Z	7,54	21,0	1004	2500	6,2
1 S	10,46	20,9	718	2499	4,2
2 S	14,78	20,5	500	2501	2,9
(ii) FIVE-HOUR-TEST at 75% of pull at maximum power in 2nd Z gear					
2 Z	5,94	16,4	995	2562	6,0
(iii) FIVE-HOUR-TEST at pull corresponding to 15% wheel slip in test (i)					
1 Z	3,95	19,2	1746	-	-
(iv) MAXIMUM POWER without ballast height of drawbar above ground 545 mm					
3 L	2,86	10,7	1352	2579	15,0
1 Z	3,90	14,8	1364	2566	15,1
2 Z	5,51	19,7	1287	2502	11,3
3 Z	7,48	20,4	981	2504	7,8
1 S	10,45	20,8	715	2504	5,6
2 S	14,79	20,4	496	2504	3,8

Total oil consumption during ten hours duration of tests (ii) and (iii) 40 g/h

PRÜFUNGS-ABTEILUNG

Test No. 78-87

Tyres make and size — front: 5,00-15 PIRELLI 4 ply
rear: 11,2 R 24 PIRELLI 4 ply

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

Specific energy kWh/l	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 0,8 bar							
1,69	488	15	-	75	9	77	986
2,00	414	14	-	75	9	79	986
2,23	371	13	-	78	9	80	986
2,43	340	13	-	84	9	80	986
2,60	318	13	-	92	9	80	986
2,65	313	13	-	95	8	70	987
2,64	314	13	-	94	9	72	987
2,59	319	13	-	92	9	72	987
2,50	332	13	-	90	9	81	989
-	-	14	-	100	8	82	990
tyre inflation pressure 0,8 bar							
1,98	416	17	-	76	15	69	990
2,31	357	17	-	77	15	69	990
2,49	331	17	-	84	15	69	990
2,56	321	17	-	86	15	69	990
2,60	316	17	-	85	15	69	990
2,54	324	17	-	84	15	69	990

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

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

(3) TURNING SPACE AND TURNING CIRCLE

Wheel equipment front: 5,00-15 4 ply
rear: 11,2 R 24 4 ply

Track of wheels front: 753 mm
rear: 741 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	2,85	3,26	3,16	3,46
Radius of turning circle	2,77	3,16	3,09	3,37

(4) LOCATION OF CENTRE OF GRAVITY

Height above ground	598 mm
Distance forward from rear axle centre	645 mm
Distance from tractor's median plane , to right	3 mm

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

(5) BRAKING PERFORMANCE

A) SERVICE BRAKE

Date of tests: 14th and 15th March 1979
Type of track: Concrete
Type of decelerometer: MOTO-METER-Bremsverzögerungs- und Pedalkraftschreiber

Weight of ballasted tractor with driver 1970 kg

Cold brakes

		With ballast	Without ballast
Travelling speed	km/h	21,0	21,0
Deceleration	m/s^2	4,4	4,6
Stopping distance	m	4,0	3,8
Force on pedal	daN	31	34
Force on pedal to achieve a deceleration of 2,5 m/s^2	daN	11	8

Brake fade characteristics (hot tests)

Deceleration	hot/cold	%	105	98
Stopping distance	cold/hot	%	91	90
Force on pedal	cold/hot	%	56	74

B) PARKING BRAKE

Tractor facing up 16% slope
Pull on hand brake 28 daN, tractor does not roll

Tractor facing down 16% slope
Pull on hand brake 29 daN, tractor does not roll

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

(6) AMBIENT NOISE EMITTED BY THE TRACTOR

Date of test: 14th March 1979
Type of track: Concrete
Type of sound level meter: BRÜEL AND KJAER model 2209

Results of test

Gear: 3rd S
Travelling speed before acceleration: 15,7 km/h
Sound level: 86,5 dB(A)

(7) NOISE AT THE DRIVER'S EAR LEVEL

Date of tests: 13th March 1979
Type of track: Concrete
Type of sound level meter: BRÜEL AND KJAER model 2209

Tractor fitted with an overturning protection 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	1345	1,77	1,59	93,0
2 L	1365	2,47	2,15	94,5
3 L	1344	3,21	2,85	95,0
1 Z	1374	4,43	3,85	94,5
2 Z	1300	6,18	5,46	94,5
3 Z *)	975	8,04	7,50	95,5
1 S	704	10,94	10,53	94,0
2 S	500	15,25	14,78	94,5
3 S	light load	19,84	20,97	94,5

*) the 3rd Z gear corresponds to the travelling speed nearest to 7,5 km/h

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

(8) POWER LIFT AND HYDRAULIC PUMP PERFORMANCE

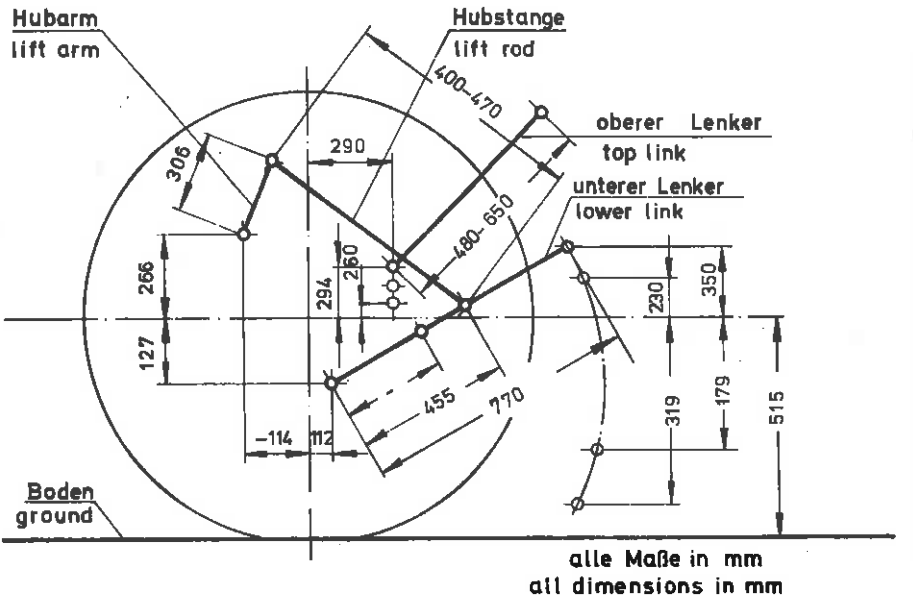
Date of tests: 2nd April 1979

HYDRAULIC PUMP

(1)	Opening pressure of relief valve in remote circuit	157 bar
	Sustained pressure by open relief valve	177 bar
(2)	Pump delivery rate at minimum pressure and rated engine speed	29,9 l/min
(3)	Pump delivery rate at max. hydraulic power	28,2 l/min
	corresponding delivery pressure	159 bar
	power	7,5 kW

POWER LIFT

Dimensions of linkage geometry for the table on page 26



PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

LIFTING FORCES

Lifting heights relative to horizontal lower links

mm	-210	-200	-192	-100	-81	-52	0	+100
at hitch points maximum mechanical advantage								
daN						1200	1260	1390
minimum mechanical advantage								
daN			1080	1300			1410	1470

Max. force exerted throughout the whole range 1200 daN

Force at which front of tractor lifts if front axle is ballasted to its maximum permissible load (690 kg) 1310 daN

at test frame maximum mechanical advantage								
daN	1150	1160		1200			1250	1220
minimum mechanical advantage								
daN					1050		1090	1120

Max. force exerted throughout the whole range 1020 daN

Force at which front of tractor lifts if front axle is ballasted to its maximum permissible load (690 kg) 770 daN

PRÜFUNGS-ABTEILUNG

Test No. 78-87

+200	+300	+357	+382	+400	+477	+500	+600	+612
lift rods 400 mm long								
1480	1530			1570	1620			
lift rods 470 mm long								
1520	1540	1570						

lift rods 470 mm long, high top link pivot point

1170	1090		1020					

lift rods 400 mm long, low top link pivot point

1100	1050			970		890	810	800

All values of forces for pressure 159 bar at maximum hydraulic power, see page 23; calculated from measurements at max. oil pressure 177 bar

LINKAGE GEOMETRY when connected to the standard frame	Maximum mechanical advantage	Minimum mechanical advantage
Projected length in side view:		
Lower links	770 mm	770 mm
Lift arms	306 mm	306 mm
Lift rods	470 mm	400 mm
Top link	575 mm	569 mm
Distance of lift rod connection point from pivot point of lower link	455 mm	455 mm
The following dimensions are given relative to rear axle centre line 515 mm above ground		
Lower link pivot point	112 mm behind, 127 mm below	112 mm behind, 127 mm below
Top link pivot point	290 mm behind, 294 mm above	290 mm behind, 260 mm above
Lift arm pivot point	114 mm behind, 266 mm above	114 mm behind, 266 mm above
Maximum and minimum height of lower link hitch points	230 mm above, 319 mm below	350 mm above, 179 mm below
Height of lower link hitch points above ground when locked in highest transport position	745 mm	865 mm

PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V

Test No. 78-87

OPTIONAL TESTS

(9) ENGINE PERFORMANCE

Date of tests: 27th and 28th July 1978
Type of dynamometer: SCHENCK eddy-current dynamometer W 150

Power kW	Engine speed rev/min	Fuel consumption total l/h	Fuel consumption total kg/h	Fuel consumption specific g/kWh	Specific energy kWh/l
Maximum power					
At 2-hour test					
25.0	2500	7.86	6.55	262	3.18
At standard p.t.o. speed (540 rev/min)					
23.1	2258	6.84	5.70	247	3.38
At the speed recommended for drawbar work					
25.0	2500	7.86	6.55	262	3.18
Part loads					
(i) 85% of the torque at maximum power at 2-hour test					
21.9	2564	7.02	5.85	267	3.12
(ii) unloaded					
-	2638	2.28	1.90	-	-
(iii) 50% of the load defined in (i)					
11.1	2606	4.40	3.67	330	2.53
(iv) maximum power					
25.0	2500	7.86	6.55	262	3.18
(v) 25% of the load defined in (i)					
5.6	2626	3.33	2.77	495	1.68
(vi) 75% of the load defined in (i)					
16.5	2585	5.59	4.66	282	2.96

Optimum fuel consumption: 228 g/kWh at 11.3 kW and 1200 rev/min
No load maximum engine speed: 2638 rev/min
Torque at maximum power (2 hours): 96 Nm
Maximum torque: 101 Nm at 1904 rev/min of the engine

Mean atmospheric conditions:	temperature	25 °C
	pressure	999 mbar
	relative humidity	78 %
Maximum temperatures:	coolant	-
	engine oil	99 °C
	fuel	27 °C
	engine air intake	27 °C

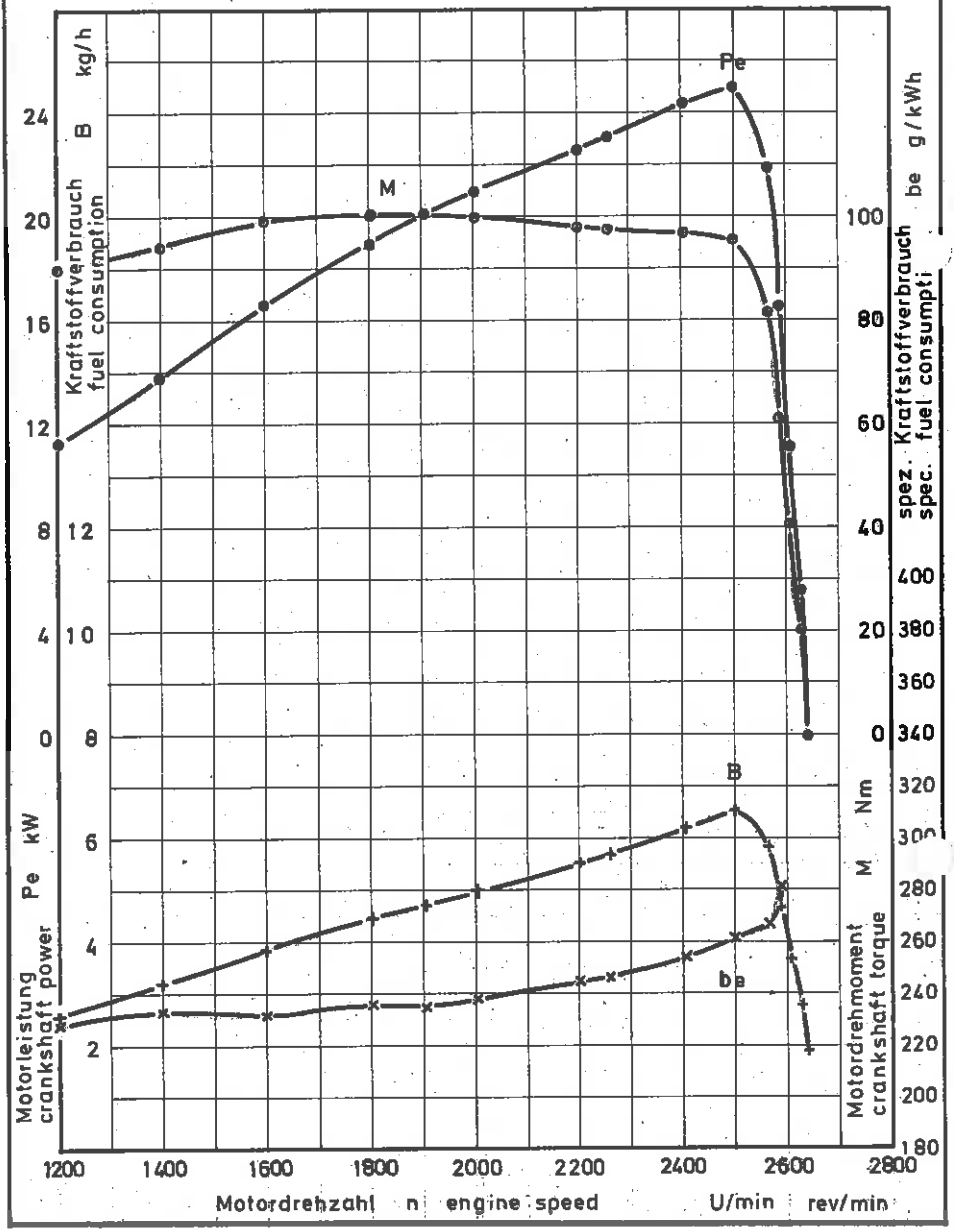
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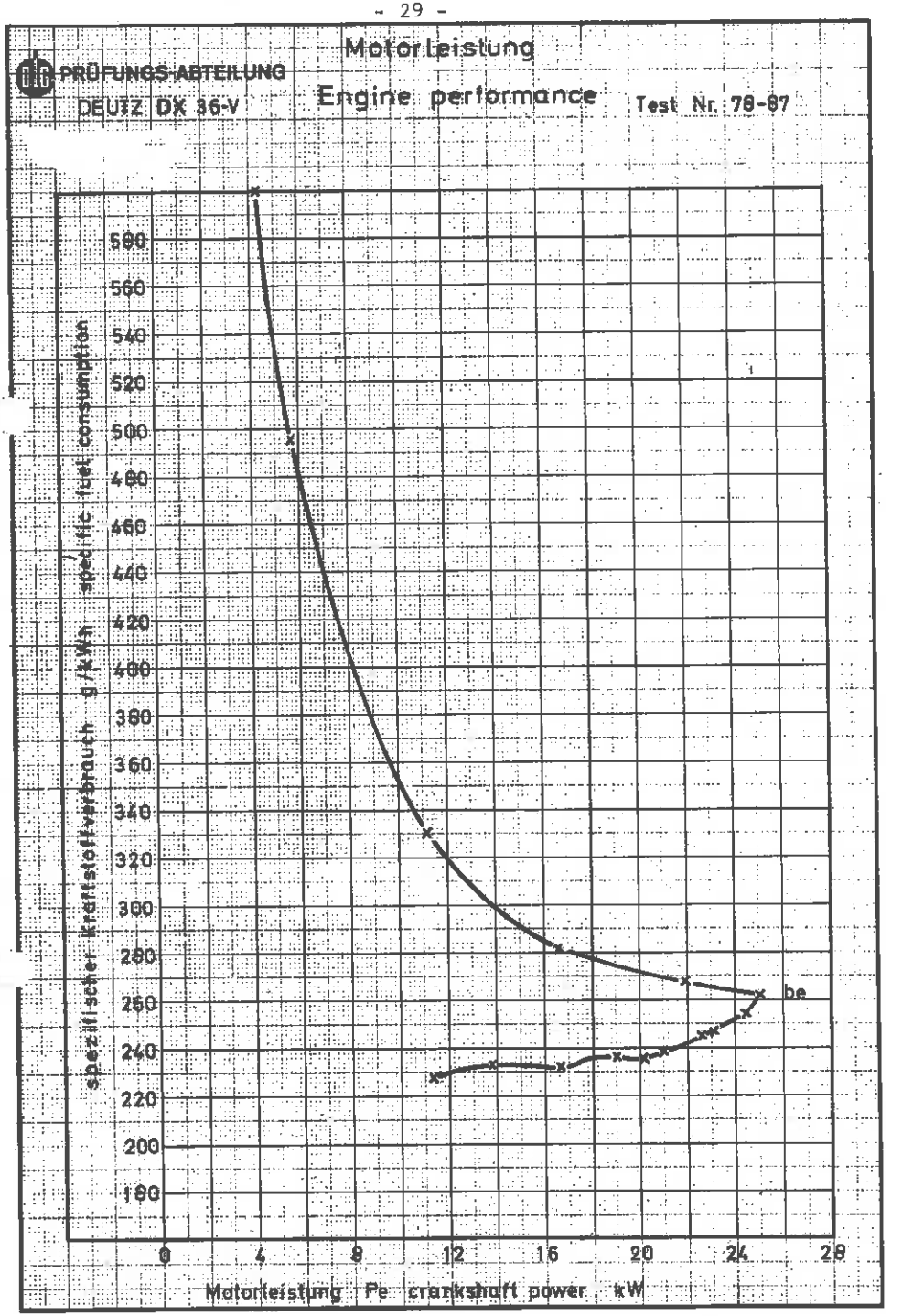
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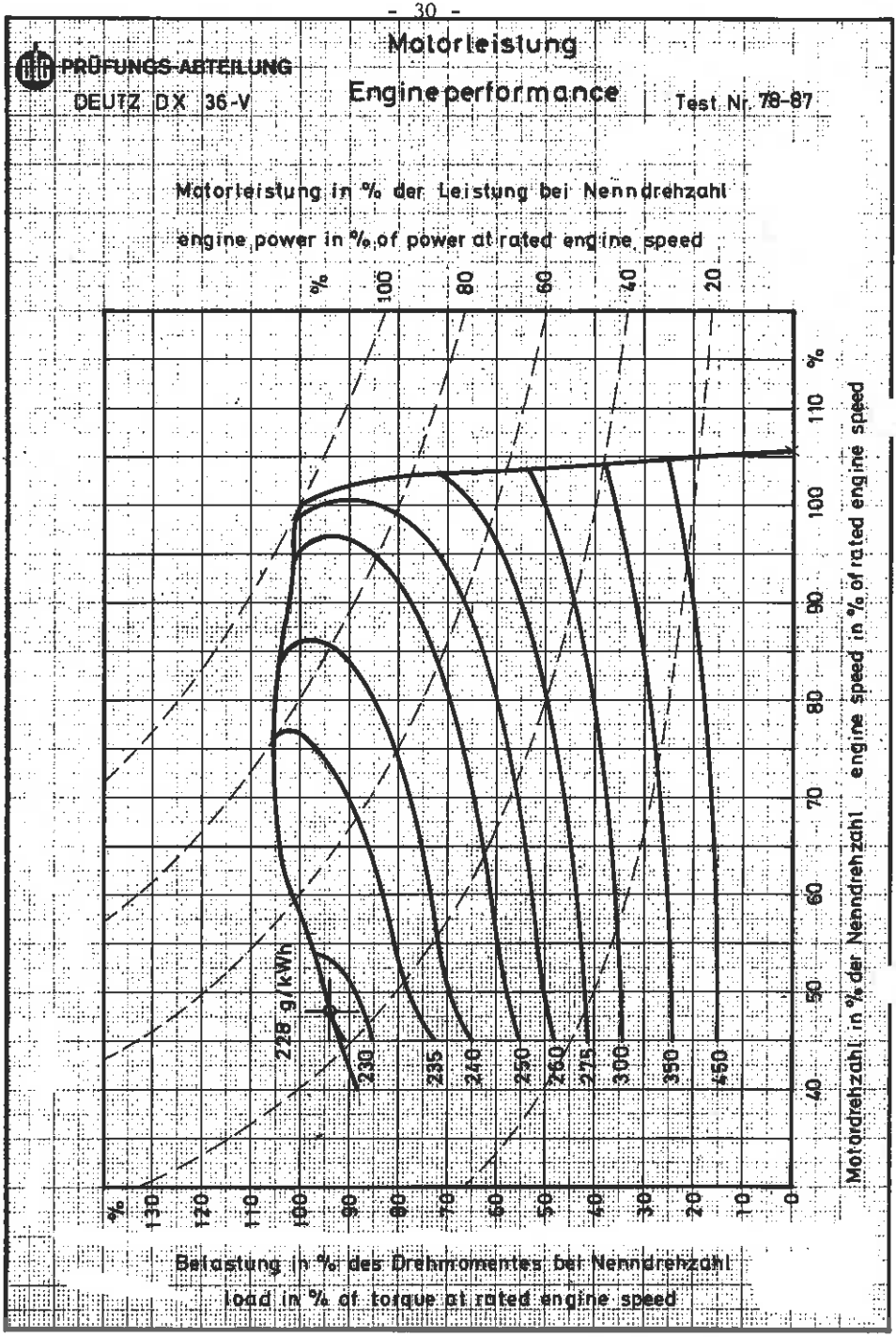
Motorleistung

Engine performance

Test Nr. 78-87




PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V
Motorleistung
Engine performance
Test Nr. 78-87
spezifischer Kraftstoffverbrauch g/kWh specific fuel consumption
580
560
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
200
180
be
0
4
8
12
16
20
24
28
Motorleistung Pe crankshaft power kW


PRÜFUNGS-ABTEILUNG
DEUTZ DX 36-V
Motorleistung
Engine performance
Test Nr. 78-87
Motorleistung in % der Leistung bei Nenndrehzahl
engine power in % of power at rated engine speed
Motordrehzahl in % der Nenndrehzahl engine speed in % of rated engine speed
Belastung in % des Drehmomentes bei Nenndrehzahl
load in % of torque at rated engine speed
228 g/kWh
230
235
240
250
260
275
300
350
450

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