Report on test in accordance with
O.E.C.D. Test Code for Agricultural Tractors

DEUTZ DIESEL TRACTOR D 75 06

Manufactured by: KLÖCKNER-HUMBOLDT-DEUTZ AG.
5 Köln-Deutz



Date of Tests: March - May 1969

This report has been approved by the O.E.C.D.
Co-ordinating Centre (C.E.E.E.M.A., France) as being
in accordance with the O.E.C.D.-Tractor Test Code.

Date of Approval: 4.7.1969 **Serial No.:** 273

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This Bulletin is based on engineering tests in accordance with the O.E.C.D.-Tractor Test Code. It does not contain an evaluation of the performance of the tractor on practical farm work.

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PRÜFUNGS-ABTEILUNG
Deutz D 75 06

Test No. 69-41

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PRÜFUNGS-ABTEILUNG Test No. 69-41

Deutz D 75 06

Tractor manufacturer:	Klöckner-Humboldt-Deutz AG., 5 Köln-Deutz
Submitted for test by:	Manufacturer
Selected by:	Manufacturer by agreement with DLG, Frankfurt
Place of running-in:	Köln-Deutz, Porz, Gross-Umstadt
Duration of running-in:	Engine appr. 100 hours, tractor appr. 50 hours

SPECIFICATION OF TRACTOR

Tractor:

Make:	Klöckner-Humboldt-Deutz AG., 5 Köln-Deutz
Model:	D 75 06
Type:	Wheel type Diesel-tractor, unit construction
Serial No.:	7931/97

Engine

Make:	Klöckner-Humboldt-Deutz AG., 5 Köln-Deutz
Model:	F 6 L 912
Type:	Air cooled 4 stroke Diesel engine
Serial No.:	477 4079

Cylinders: 6 cylinders, vertical in line; bore 100 mm, stroke 120 mm, capacity 5625 cm^3; compression ratio 17 : 1; overhead valves; replaceable ribbed single cylinders

Fuel system: Fuel: Commercially available diesel oil; Bosch type PES/ 6 A 75 C 410/ 3 R S 1197 injection pump; Bosch type DLLA 149 S 394 injection nozzles; injection pressure 175 kp/cm^2; injection timing 30° before TDC; Pierburg type 15 252 fuel feed pump; Bosch dual fuel filter with water trap and replaceable filter cartridges; capacity of fuel tank appr. 120 l

Governor: Make: Robert Bosch AG., 7 Stuttgart; centrifugal variable speed type governor type EPRSV 325-1050 A8B 532 DL; governed range of engine speed 700 rev/min to 2240 rev/min; rated engine speed

for p.t.o.-work	2100 rev/min
for field-work	2100 rev/min
for transportation-work	2100 rev/min
for belt-work	2100 rev/min

Air cleaner: Main filter: Make Motor-Condensator, 68 Mannheim oil flush type filter; oil capacity 1,75 l

Pre-cleaner: Make Motor-Condensator, 68 Mannheim centrifugal type

Lubrication system:	Forced feed from gear type pump; metal strainer in sump; full flow filter with replaceable filter cartridge; oil capacity (engine sump) 14 l; recommended oil changing period 100-200 hr using HD-S oil; 200-240 hr using HD-B oil; recommended oil in winter HD SAE 10W in summer HD SAE 20W/20 in tropics HD SAE 30
Cooling system:	Air cooling with V-belt driven axial blower
Electrical equipment	Voltage 12 Volt, negative earth
Starting device:	Bosch 12 Volt type JD 12 V 4 PS starter motor
Starting aid:	Bosch flame glowing plugs type B 12 V H 7632
Generator:	Bosch type G(R) 14 V 16 A 21 generator
Battery:	Lead acid type, 12 V 143 Ah; special battery for cold starts

Transmission

Clutch:	Make: J.Walterscheid KG., 52 Siegburg; dry disc dual clutch type DH 327/310; operated by foot pedal
Gearbox:	Make: Zahnradfabrik Friedrichshafen AG., 799 Friedrichshafen type T 325 II; 6 speed selecting gear with ZF easy engaging device, group gear with 2 forward groups and 1 reverse, giving total 12 forward speeds and 5 reverse
Rear axle and final drive:	Make: Zahnradfabrik Friedrichshafen AG., 799 Friedrichshafen bevel gear type differential gear with crown wheel and pinion; differential lock fitted, operated by foot pedal or hand lever, self disengaging, planetary final drive
Oil capacity:	selecting gear, group gear and rear axle 3 l, final drive 13 l; recommended oil changing period 1000 l

PRÜFUNGS-ABTEILUNG

Deutz D 75 06

Test No. 69 - 41

Total ratios and speeds

Group gear	Selecting gear No.	Number of engine revolutions for one revolution of the driving wheel	Theoretical travelling speed at rated engine speed of 2100 rev/min	
			km/h	m/s
Forward speeds				
Intermediate group (Z)	1	255,1 : 1	2,2	0,62
	2	162,7 : 1	3,5	0,97
	3	104,9 : 1	5,4	1,50
	4	68,1 : 1	8,3	2,31
	5	42,7 : 1	13,3	3,69
	6	27,0 : 1	21,0	5,84
Normal group (N)	1	197,5 : 1	2,9	0,80
	2	126,0 : 1	4,5	1,25
	3	81,2 : 1	7,0	1,94
	4	52,7 : 1	10,7	2,99
	5	33,0 : 1	17,1	4,76
	6	20,9 : 1	27,1	7,54
Reverse speeds				
Reverse group (R)	1	198,8 : 1	2,8	0,79
	2	126,8 : 1	4,5	1,24
	3	81,8 : 1	6,9	1,92
	4	53,0 : 1	10,7	2,97
	5	33,3 : 1	17,0	4,73

Power take-off	Main p.t.o. acting as live p.t.o.; p.t.o.-clutch operated by hand lever
Location:	At rear of tractor, in median plane, 595 mm above ground
Dimensions:	Spline shaft 29 x 34,9 x 8,7 mm = $1^3/8$", 6 splines (acc.to DIN 9611, Form A; BS 1495; ASAE S 203.2)
Speed:	a) 588 rev/min at 2100 rev/min rated engine speed; standard p.t.o.-speed 540 rev/min at 1928 rev/min engine speed
	b) 1074 rev/min at 2100 rev/min rated engine speed; standard p.t.o.-speed 1000 rev/min at 1954 rev/min engine speed; p.t.o.-speeds may be controlled by aid of tractormeter
Direction of rotation:	Clockwise, viewed from tractor rear
Belt pulley	(Not fitted on tractor tested; figures acc. to manufacturers specification)
Location:	At rear of tractor; driving device fitted on p.t.o.shaft; manually engaged
Dimensions:	280 mm diameter, 220 mm width
Speed:	1390 rev/min at 2100 rev/min rated engine speed; linear belt speed 19,6 m/s
Direction of rotation:	Anticlockwise, viewed from right hand side of tractor
Power lift	Make: Zahnradfabrik Friedrichshafen AG., 799 Friedrichshafen type KR 21; hydraulic power lift with power control, position control and floating position; single acting ram with safety relief valve; Bosch type HY/ZFR/14 CL (132/1) gear type pump directly driven from engine; maximum oil pressure 175 kp/cm²; oil capacity 36 l (transmission case); Bosch control valve; 1 external tapping (up to 4 external tappings available)
Pull attachment	
Implement linkage:	Three-point implement linkage category II (acc. to DIN 9674) controlled by power lift; lift height above ground from 165 mm to 950 mm
Drawbar:	Fixed on hydraulically controlled implement linkage; central hole and 4 holes with 80 mm distance each apart either side of centre hole (acc.to DIN 9671); distance from rear axle with lower links in horizontal position 995 mm; distance from end of p.t.o 650 mm
Swinging drawbar:	(Not fitted on tractor tested; figure acc. to manufacturers specification) Height above ground 387 mm

Trailer hitch: At rear of tractor; height above ground 765 mm; distance from rear axle centre 500 mm

Towing hitch: At front of tractor; height above ground 750 mm

Steering device: Make: Zahnradfabrik Friedrichshafen AG., 799 Friedrichshafen
ZF-Hydrostatic steering type 7409

Brakes

Parking brake: Mechanically acting as Simplex internal shoe type brake on drums on the differential shafts, operated by ratchet hand lever

Foot brake: Hydraulically acting as Servo internal shoe type brake on drums on the differential shafts, operated by foot pedal

Steering brake: Operated by the single parts of the divided foot pedal of the foot brake; at normal use both parts are connected by a safety bolt

Wheels

Steering wheels: Two at front. Tyres 7,50-20 AS Front 6 ply (acc.to DIN 7808); maximum permissible weight on each tyre 850 kp at 2,5 kp/cm², when transporting mounted implements 1062 kp; track from 1420 mm to 1920 mm by 100 mm steps changed by extending front axle; rim 5,50 x 20

Driving wheels: Two at rear. Tyres 18,4/15-30 AS 8 ply (acc.to DIN 7807); maximum permissible weight on each tyre 2415 kp at 1,4 kp/cm², when transporting mounted implements 2777 kp; track 1520 mm and 1840 mm changed by reversing wheels(optionally: track 1514 - 1614 - 1729-1829 - 1923 - 2033 mm changed by reversing wheel centres and offset lug type rims); rim W 14L x 30

Wheel base: 2550 mm

PRÜFUNGS-ABTEILUNG
Deutz D 75 06

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Weights With power lift, three-point linkage, full fuel tank and oil, as tested

		without driver	with driver
Weight of tractor without ballast:	Front axle load:	1050 kp	1062 kp
	Rear axle load :	1900 kp	1962 kp
	Total:	2950	3024 kp

Ballast front: At drawbar tests 4 front weights = 200 kp
(front ballast available 550 kp)

Ballast rear: 9 wheel weights + 1 main weight = 1215 kp
water in tyres = 566 kp

		without driver	with driver
Weight of tractor with ballast:	Front axle load:	1273 kp	1293 kp
	Rear axle load :	3660 kp	3722 kp
	Total:	4933 kp	5015 kp

Seat Make: W.Grammer, 845 Amberg,
typ DS 20 D 1; upholstered seat with back rest and arm rests; adjustable spring with hydraulic shock absorber; distance from drawbar adjustable from 945 mm to 1070 mm; height above ground acc.to distance from drawbar 1325 mm to 1280 mm; in median plane of tractor

Number of grease points (whole tractor) : 17

Overall dimensions

Overall length: 4090 mm with three-point linkage
Overall width : 1985 mm at 1520 mm track, without ballast weights
Overall height: 2395 mm to top of exhaust pipe
Maximum ground clearance: 455 mm in median plane of tractor
475 mm apart median plane of tractor

Lighting equipment Electric 12 Volt, acc.to StVZO (German lighting regulation)

	Height above ground of centre mm	Dimensions of area mm	Distance from outside edge of tractor to centre mm
Head lights	1050	130 Ø	835
Side lights	1645	47 x 50	70
Rear lights	1425	47 x 50	120
Reflectors	1015	60 Ø	55

PRÜFUNGS-ABTEILUNG
Deutz D 75 06

Test No. 69-41

FUELS AND LUBRICANTS USED IN TESTS

Laboratory tests

Fuel:	Shell Diesel oil, specific gravity at 15°C : 0,828 kg (commercially available quality acc.to DIN 51 601)
Engine oil:	Shell Rotella HD 20 W/20 (SAE)
Transmission oil:	Engine oil Shell Rotella HD 20 W/20 (SAE)

Track tests

Fuel:	Shell Diesel oil, specific gravity at 15°C : 0,828 kg (commercially available quality acc.to DIN 51 601)
Engine oil:	Shell Rotella HD 20 W/20 (SAE)
Transmission oil:	Engine oil Shell Rotella HD 20 W/20 (SAE)

PRÜFUNGS-ABTEILUNG
Deutz D 75 06

Test No. 69-11

COMPULSORY TESTS

(1) MAIN POWER TAKE-OFF PERFORMANCE

Date and location of tests: 17.4.1969. Gross-Umstadt

Type of dynamometer: Schenck hydraulic dynamometer U1-40

Maximum power

Horsepower (metric) hp	Speed engine rev/min	Speed p.t.o. rev/min	Fuel consumption total l/h	Fuel consumption specific g/hph	hph/l
At maximum power 2-hours test					
72,4	2100	588	15,15	174	4,77
At standard p.t.o.speed (540 rev/min)					
71,4	1930	540	14,55	168	4,91
At the speed recommended by the manufacturer for drawbar work					
72,4	2100	588	15,15	174	4,77

Fuel consumption at part loads

(i) 85% of torque at maximum power					
62,0	2120	594	13,45	179	4,61
(ii) unloaded					
0,9	2175	610	4,38	-	-
(iii) 50% of the load defined in (i)					
31,4	2143	600	8,60	227	3,65
(iv) maximum power					
72,4	2100	588	15,15	174	4,77
(v) 25% of the load defined in (i)					
15,8	2160	605	6,44	339	2,45
(vi) 75% of the load defined in (i)					
46,6	2125	596	10,98	195	4,25

No load maximum engine speed: 2180 rev/min

Torque*) at maximum power: 24,7 kpm

Maximum torque*) 28,9 kpm at 1200 rev/min of the engine

Mean atmospheric conditions: temperature: 18°C
pressure: 747 mm Hg
relative humidity: 45%

Maximum temperatures: coolant: not recorded
engine oil: 78°C
fuel: 19°C

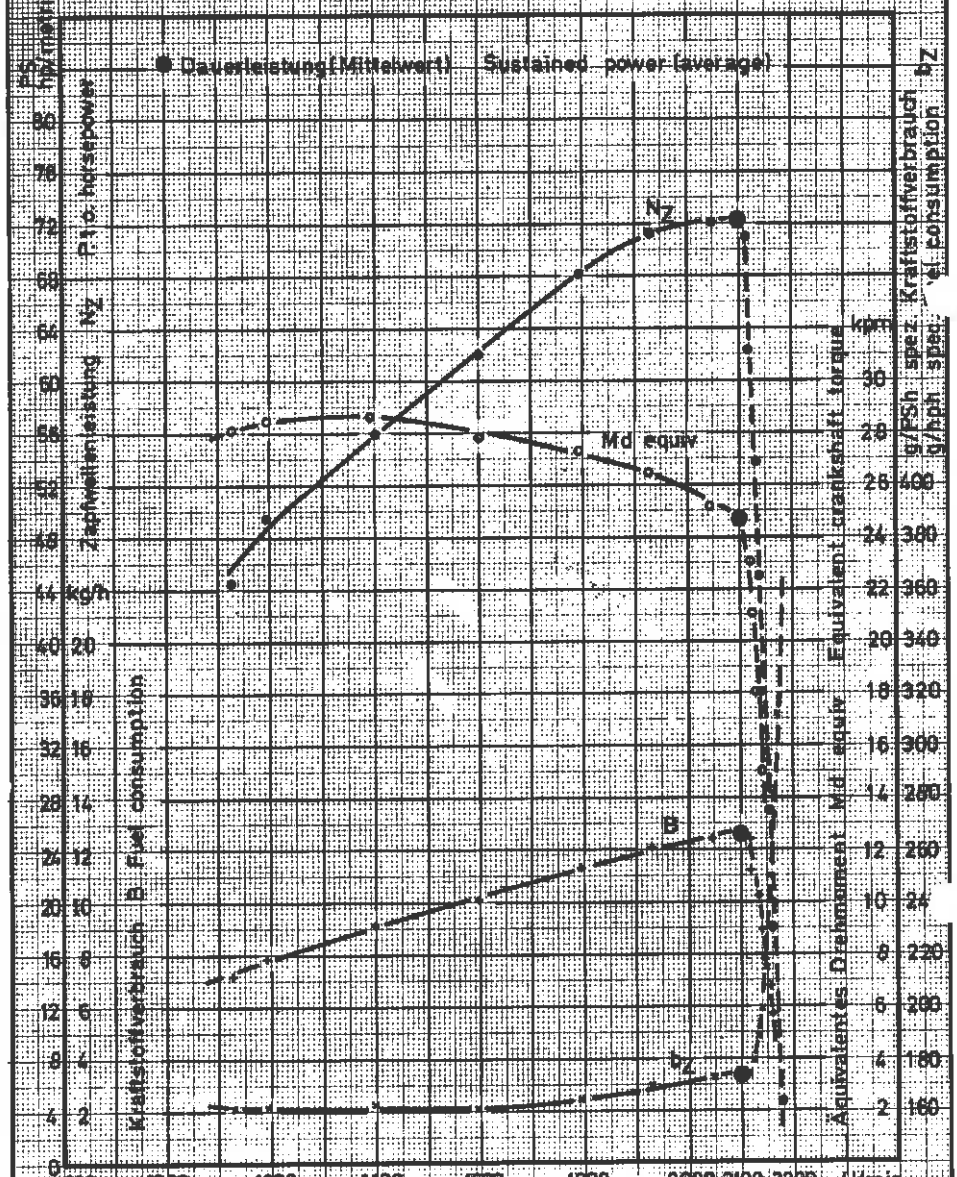
*) The torque reported is the equivalent crankshaft torque

PRÜFUNGS-ABTEILUNG

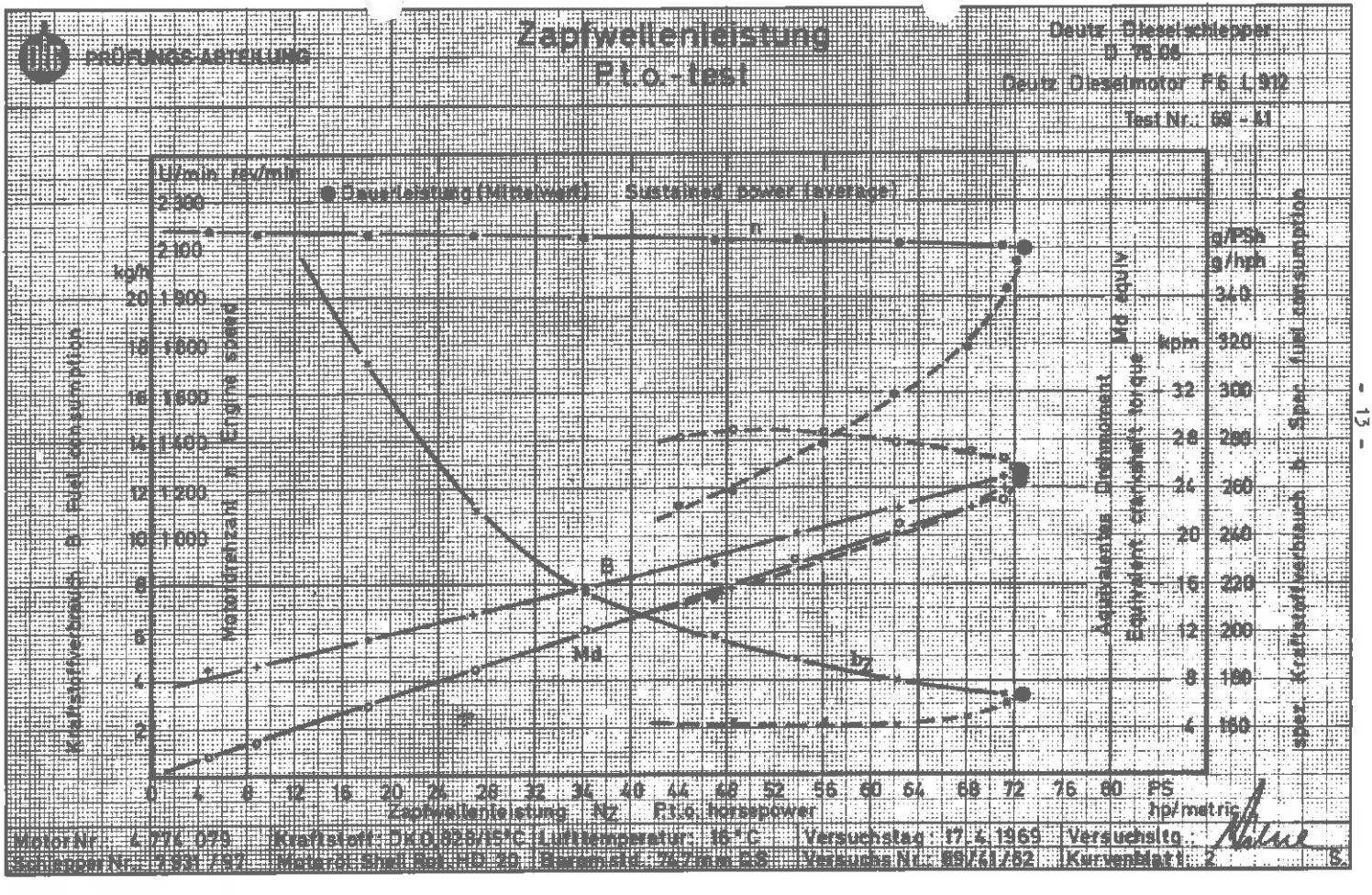
Zapfwellenleistung
P.t.o.-test

Deutz Dieselschlepper
D 7506
Deutz Dieselmotor F6L912

Test Nr.: 69 - 41



Motor Nr.: 4 774 079	Motoröl: Shell Rot. HD 20	Versuchstag: 17. 4.1969	Versehsitg.:
Schlepper Nr.: 7 931/97	Lufttemperatur: 16° C	Versuchs Nr.: 69/41/62	
Kraftstoff: DK 0,828/15°	Barometerstd.: 747mmQS	Kurvenblatt: 1	


PRÜFUNGS-ABTEILUNG
Zapfwellenleistung
P.t.o.-test
Deutz Dieselschlepper
D 7006
Deutz Dieselmotor F6 L 912
Test Nr.: 68 - 41
U/min rev/min
Zapfwellenleistung (Nennwert) Sustained power (average)
n
Kraftstoffverbrauch g Fuel consumption
Motordrehzahl n Engine speed
Zapfwellendrehzahl Power take-off speed
Axialgebläse Drehmoment Axial fan torque
Kraftstoffverbrauch g Fuel consumption
spez. Kraftstoffverbrauch g Spec. fuel consumption
g/PSh
g/hph
kpm
kp/h
kph
PS
hp/metric
Zapfwellenleistung Nz P.t.o. horsepower
Motor Nr.: 4 276 079
Kraftstoff: DIN 6 928/15°C
Lufttemperatur: 15 °C
Versuchstag: 17. 4. 1969
Versuchsstg.:
Typen Nr.: 1 931 7XV
Motoröl: Shell Rotella 30
Einspritzpumpe: 7 mm RS
Versuchs Nr.: 68/61782
Kurvenblatt: 2

(2) DRAWBAR PERFORMANCE

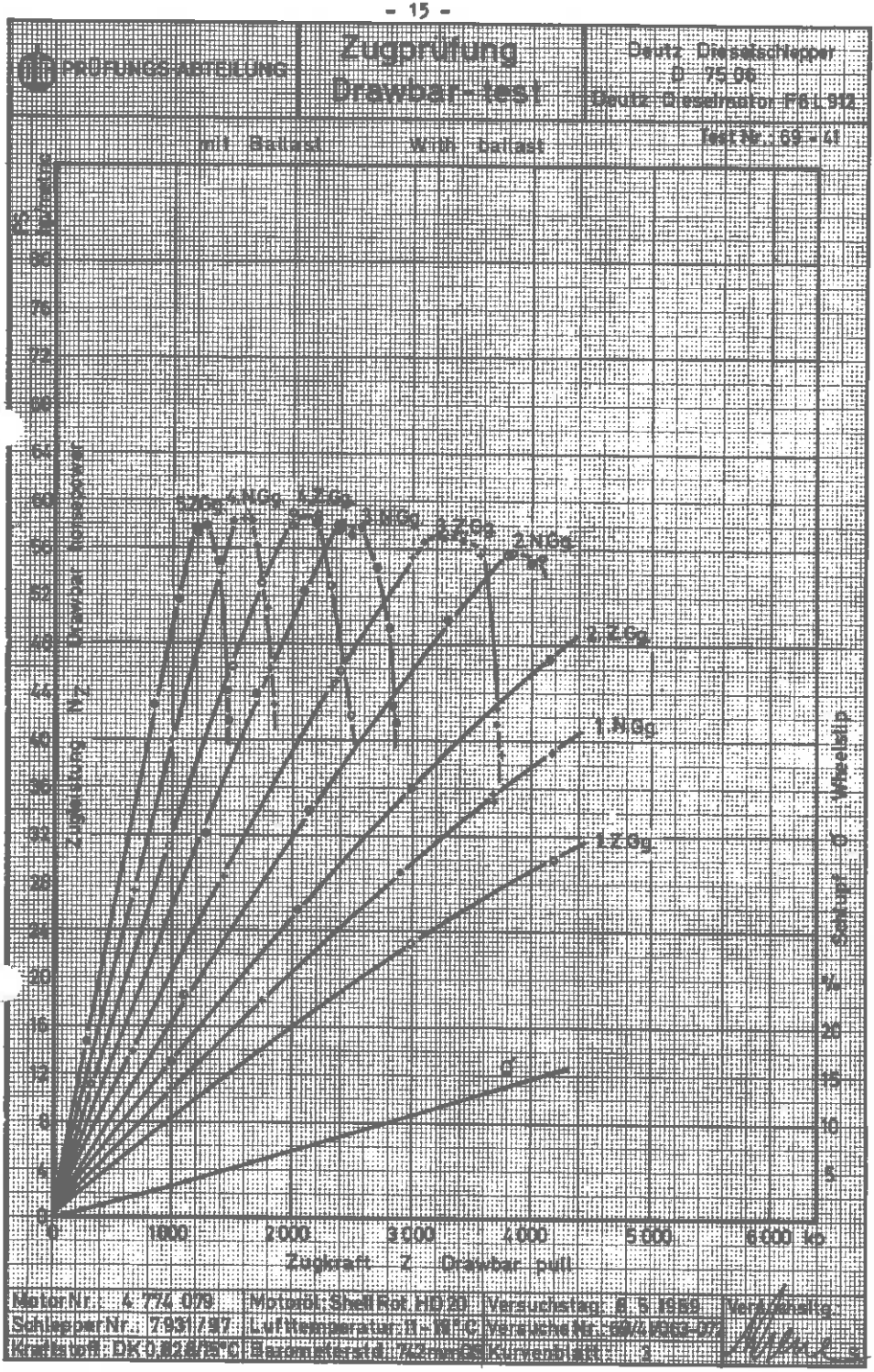
Date of tests: 2.5. and 8.5.1969
Type of track: concrete
Height of drawbar above ground: 525 mm

With ballast

Gear No. and group	Horse-power (metric) hp	Drawbar pull kp	Engine speed rev/min	Slip of wheels %	Specific work hph/l	Specific fuel consumpt. g/hph	Temperatures Fuel °C	Coolant °C	Engine oil °C	Atmospheric conditions Temperature °C	Relative humidity %	Pressure mm Hg
(i) MAXIMUM POWER												
1.Z.	30,5	4180	2150	15,4	3,02	274	20	not rec.	85	19	63	752
2.Z.	47,0	4150	2125	15,3	3,47	237	18	not rec.	85	19	57	752
3.Z.	56,7	3100	2100	11,1	3,72	221	18	not rec.	85	18	87	750
4.Z.	59,3	2000	2100	7,0	3,92	212	12	not rec.	80	11	82	751
5.Z.	57,7	1190	2100	3,7	3,70	223	16	not rec.	80	17	67	751
1.N.	39,3	4180	2135	15,5	3,25	252	20	not rec.	85	20	60	752
2.N.	55,6	3780	2100	13,7	3,62	228	18	not rec.	85	19	58	752
3.N.	58,3	2400	2100	8,2	3,83	216	16	not rec.	85	17	83	751
4.N.	58,5	1600	2080	5,9	3,92	211	14	not rec.	85	16	69	751
(ii) FIVE-HOUR-TEST AT 75% OF PULL AT MAXIMUM POWER IN 3the GEAR OF Z.GROUP												
3.Z.	44,4	2325	2125	8,2	3,65	225	18	not rec.	85	17	68	758
(iii) FIVE-HOUR-TEST AT PULL CORRESPONDING TO 15% WHEEL SLIP IN TEST (i) *)												
2.Z.	-	4180	-	-	-	-	-	-	-	-	-	-
Without ballast (v) MAXIMUM POWER												
3.Z.	47,1	2650	2120	15,4	3,26	235	22	not rec.	85	24	67	745
4.Z.	58,5	2050	2090	11,0	3,80	217	20	not rec.	85	22	70	745
5.Z.	60,4	1260	2100	6,1	3,94	210	18	not rec.	80	17	80	745
3.N.	57,0	2450	2095	13,1	3,71	222	22	not rec.	85	24	67	745
4.N.	59,6	1575	2100	8,2	3,83	216	15	not rec.	80	15	82	745
5.N.	59,8	950	2100	4,0	3,82	217	18	not rec.	80	19	76	745

Engine oil consumption during ten hours duration of tests (ii) and (iii) : 50 g/h.

*) Test(iii) was carried out with additional ballast and the results for power, slip and fuel consumption have no practical significance


PRÜFUNGS-ABTEILUNG
Zugprüfung
Drawbar-Test
Deutz Dieselschlepper
D 75.06
Deutz Dieselmotor F6 L 912
Test Nr.: 69 - 41
mit Ballast
With ballast
Motorleistung
Engine power
PS
Wheelslip
Schlupf
%
Zugkraft Z Drawbar pull
kg
1000
2000
3000
4000
5000
6000
2 Z Gg
2 N Gg
1,5 Z Gg
1,5 N Gg
1 Z Gg
1 N Gg
Motor Nr.: 4 774 079
Motoröl: Shell Rot HD 20
Versuchstag: 8. 5. 1969
Schlepper Nr.: 7931 797
Luftwärmetemperatur: 18 °C
Versuche Nr.: 69/41 bis 69/47
Kraftstoff: DK 0,82 kg/dm³
Raumgewicht: 725 g/l
Kurvenblatt: 2

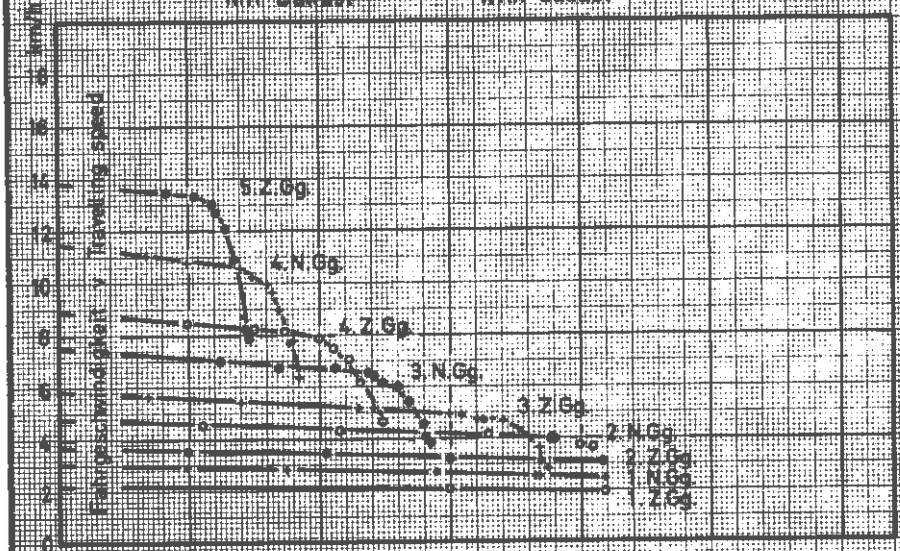
PRÜFUNGS-ABTEILUNG

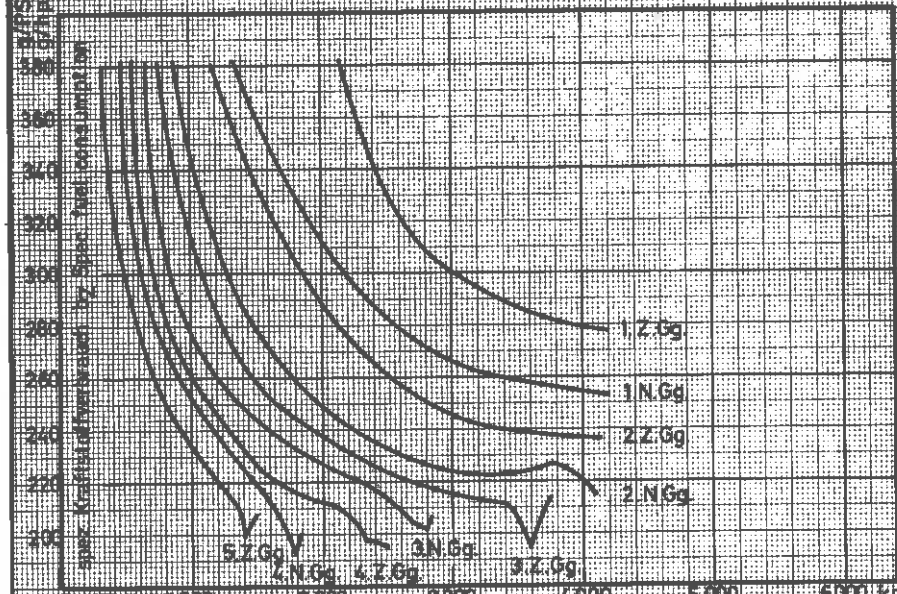
Zugprüfung
Drawbar-Test

Deutz-Diesel-Schlepper
D 15 06
Deutz Dieselmotor F 6 L 912

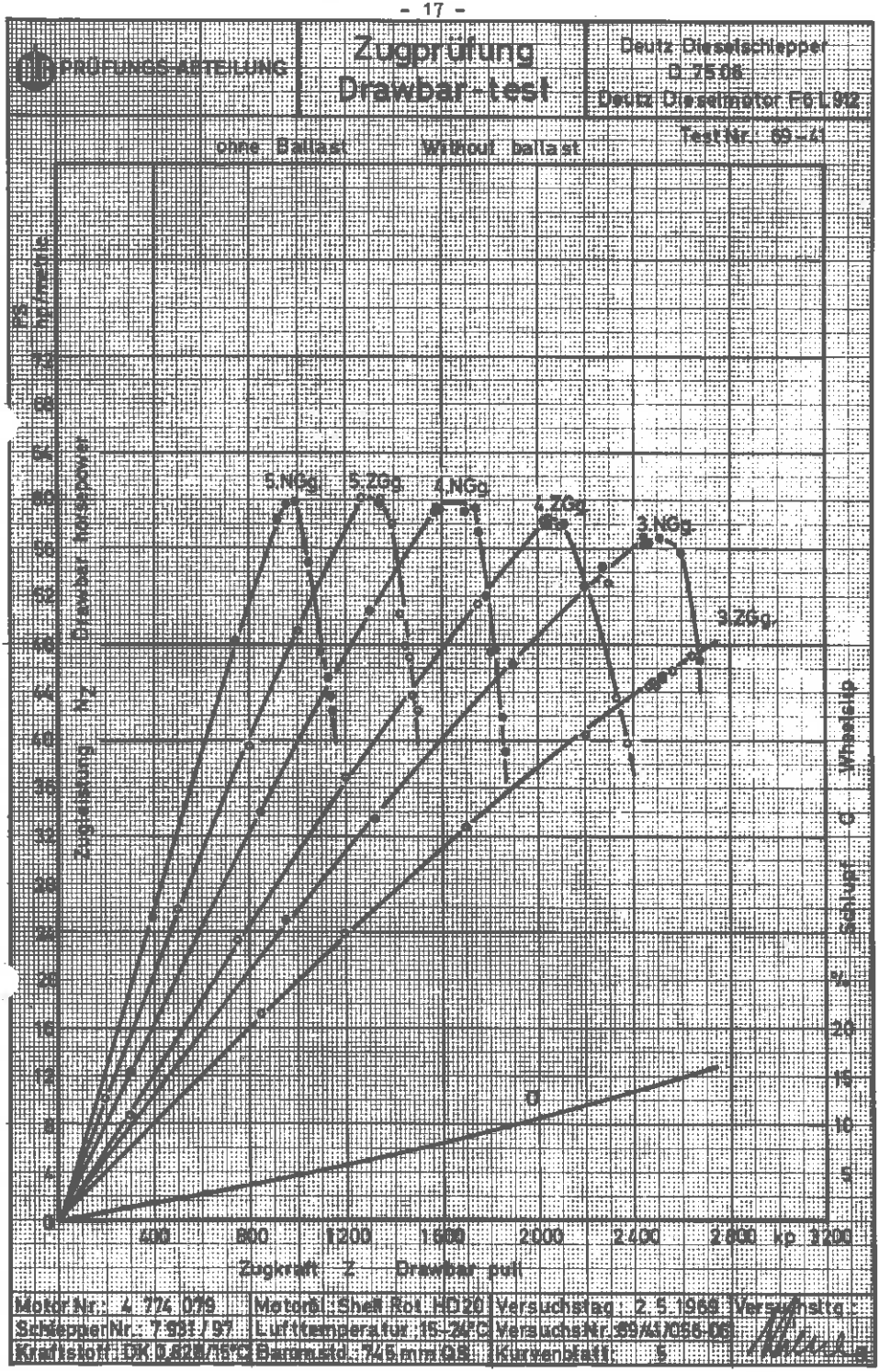
Test Nr.: 69-41

mit Ballast — With ballast





Motor Nr.: 4 774 079	Motoröl: Shell Rot. HD 20	Versuchstag: 8. 5. 1969	Versuchsltg.:
Schlepper Nr.: 7 931 797	Lufttemperatur: 8 – 19 °C	Versuchs Nr.: 69/41/063-072	
Kraftstoff: DK 0828/15 °C	Barometerstd.: 742 mm QS	Kurvenblatt: 4	


DEUTZ PRÜFUNGS-ABTEILUNG
Zugprüfung
Drawbar-test
Deutz Dieselschlepper
D 7506
Deutz Dieselmotor F6L 912
ohne Ballast
Without ballast
Test Nr. 69-4
5.NGg.
5.ZGg.
4.NGg.
4.ZGg.
3.NGg.
3.ZGg.
Schlupf
Wheelslip
Zugkraft Z
Drawbar pull
400
800
1200
1600
2000
2400
2800
kp
3200
Motor Nr. 4 774 079
Schlepper Nr. 7 981 / 97
Kraftstoff DK 0,828/15°C
Motoröl Shell Rot HD 20
Lufttemperatur 15-24°C
Barom.std. 745 mm HG
Versuchstag 2. 5. 1968
Versuchs Nr. 69/4/7056-06
Kurvenblatt 5
Versuchsltg.

(3 and 4) TURNING SPACE AND TURNING CIRCLE

Wheel equipment front: 7,50-20 AS Front, 6 ply, without ballast
rear: 18,4/15-30 AS, 8 ply, without ballast

Track of wheels front: 1520 mm
rear: 1520 mm

	With brakes		without brakes	
	left-hand	right-hand	left-hand	right-hand
Radius of turning space	4,25 m	4,10 m	4,70 m	4,50 m
Radius of turning circle	4,10 m	3,95 m	4,55 m	4,30 m

(5) LOCATION OF CENTRE OF GRAVITY

	Without ballast
Height above ground	780 mm
Distance forward from the vertical plane containing the axis of the rear wheels	900 mm
Distance from the median plane of the tractor	0 mm

(6) BRAKE TESTS

A) FOOT BRAKE

Date of test: 5.5.1969

Type of track: concrete

Type of decelerometer: Moto Meter Bremsverzögerungs- und Pedalkraftschreiber
Moto Meter Hermann Schlaich, 7 Stuttgart N

Travelling speed of tractor: 27,1 km/h

With cold brakes

		Tractor without ballast	Tractor with ballast
Maximum deceleration	m/s^2	3,8	4,7
Stopping distance	m	9,8	8,8
Force on pedal	kp	43	64

Brake fade characteristics, hot tests, tractor without ballast

Deceleration: hot/cold 105%

Stopping distance: cold/hot 96%

Force on pedal: cold/hot 102%

B) PARKING BRAKE

Force applied on the brake lever, cold brake 42 kp.
No rotation of the rear-wheels of tractor occured when the tractor has been towed.

Force applied on the brake lever, hot brake 48 kp.
One hour after the brake has been applied no rotation of the rear-wheels of tractor occured when the tractor has been towed.

(7) MEASUREMENT OF AMBIENT NOISE EMITTED BY THE TRACTOR

Date of test: 5.5.1969
Type of track: concrete
Type of sound level meter: Brüel & Kjaer Type 2203

Results of test

Speed: 6.Z.
Travelling speed before acceleration: 20,0 km/h
Sound level: 87 dBA

(8) NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of test: 9.5.1969
Type of track: concrete
Type of sound level meter: EZGN, Rohde & Schwarz, 8 München
Type of octavfilter: PBO, Rohde & Schwarz, 8 Münohen

No oab fitted on tractor

Results of tests

Gear	Travelling speed *) nominal km/h	real km/h	Sone
3.N.	7,0	6,8	78
3.Z.	5,4	5,1	83

*) The first gear tested corresponds to the travelling speed nearest to 7,25 km/h.

PRÜFUNGS-ABTEILUNG

Deutz D 75 06

Test No. 69-41

(9) TEST OF POWER LIFT AND HYDRAULIK PUMP PERFORMANCE

Date and location of tests: 19.3.1969, Groß-Umstadt

Hydraulic fluid: Engine oil SAE 20W/20

POWER LIFT.

Height above ground in down position hitch point	test frame	Total vertical movement	Maximum force exerted through full lift range	Pressure of hydr. oil	Linkage load at which unballasted front end of tractor lifts off the ground
mm	mm	mm	kp	kp/cm²	kp
Measured on the hitch points of lower links					
6o	-	685	2115	174	273o
312	-	625	216o	174	273o
Measured on the test frame 61o mm to the rear of the hitch points					
6o	1oo	645	211o	174	261o
312	312	7o8	184o	174	261o

Type of linkage lock for transport: no lock fitted.
Opening pressure of the cylinder over pressure relief valve: 22o-25o kp/cm² (acc. to manufacturers specification)

PUMP CHARACTERISTICS

(i) opening pressure of relief valve: 178 kp/cm²
sustained pressure by the open relief valve: 174 kp/cm²

(ii) Pump delivery rate at external tapping
at minimum pressure: 32,5 l/min
at maximum hydraulic power: 22,8 l/min
maximum hydraulic power: 165 kp/cm²

PRÜFUNGS-ABTEILUNG
Deutz D 75 06

Test No. 69-41

OPTIONAL TESTS

(10) ENGINE TESTS

Date and location of tests: 14.4.1969, Gross-Umstadt

Type of dynamometer: Schenck hydraulic dynamometer U1-30

Maximum power

Horsepower (metric) hp	Engine speed rev/min	Fuel consumption total l/h	Fuel consumption specific g/hph	hph/l
At maximum power 2-hours test				
76,3	2100	15,15	165	5,03
At standard p.t.o.speed (540 rev/min)				
73,6	1928	14,25	160	5,17
At the speed recommended by the manufacturer for drawbar work				
76,3	2100	15,15	165	5,03
Fuel consumption at part loads				
(i) 85% of torque at maximum power				
65,6	2127	13,45	170	4,88
(ii) unloaded				
-	2180	4,0	-	-
(iii) 50% of the load defined in (i)				
33,2	2153	8,43	210	3,94
(iv) maximum power				
76,3	2100	15,15	165	5,03
(v) 25% of the load defined in (i)				
16,5	2167	6,18	310	2,67
(vi) 75% of the load defined in (i)				
48,5	2140	10,90	186	4,53

Optimum fuel consumption: 156 g/hph at 64,1 hp and 1610 rev/min

Standard fuel consumption 1/2 (acc.to DIN 9606): 6,4/12,8 l/h

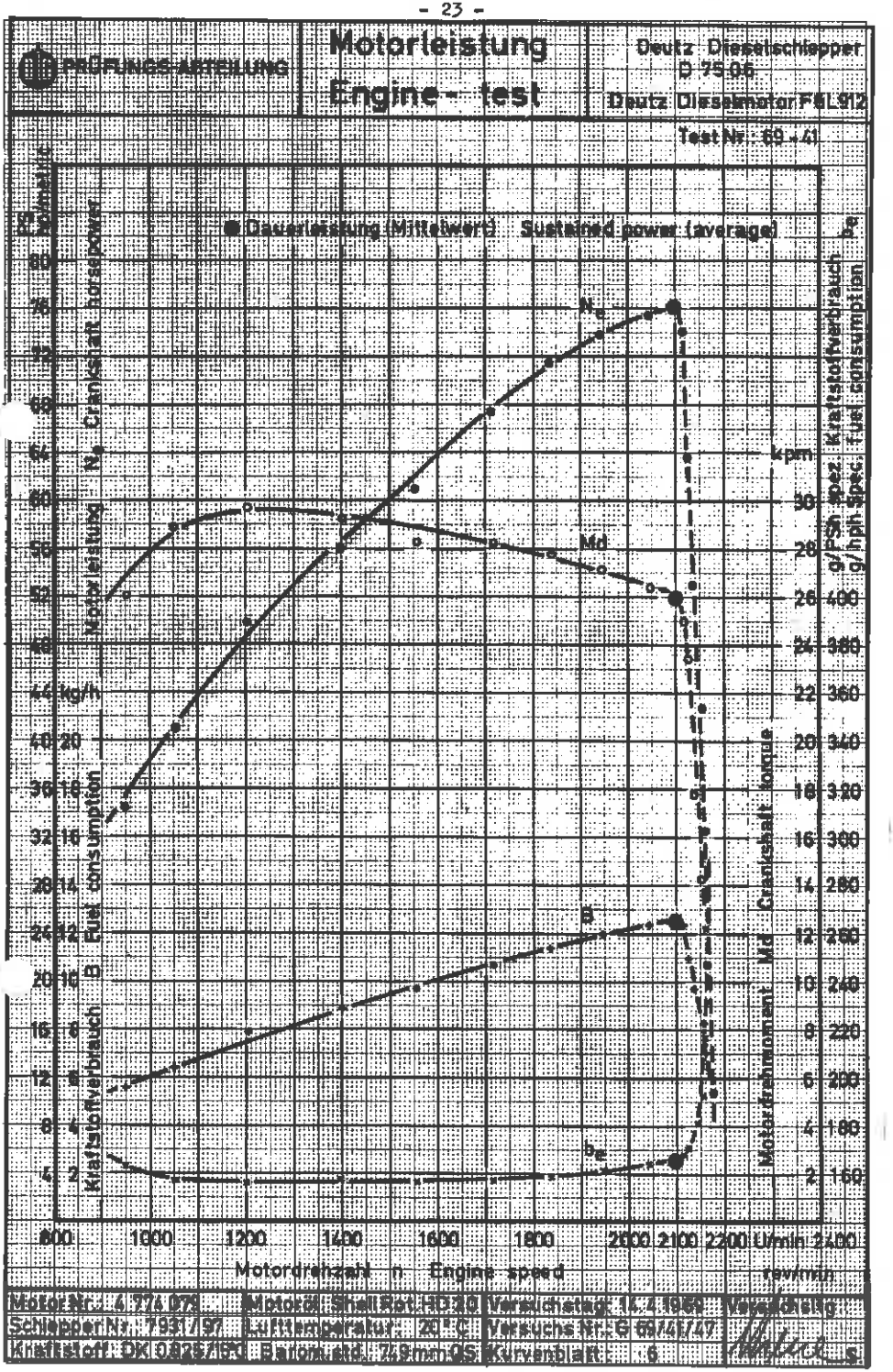
No load maximum engine speed: 2180 rev/min

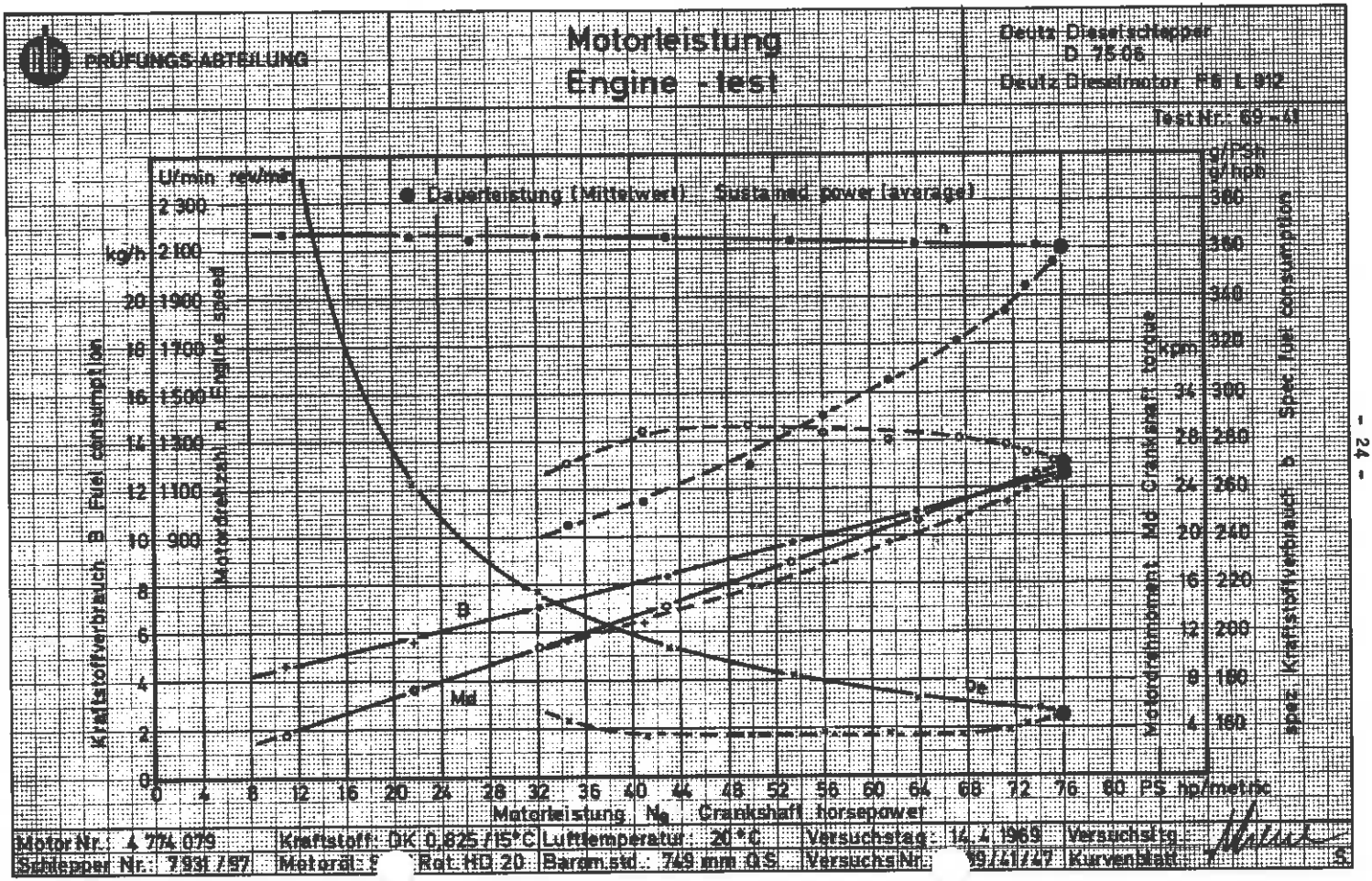
Torque at maximum power: 26,0 kpm

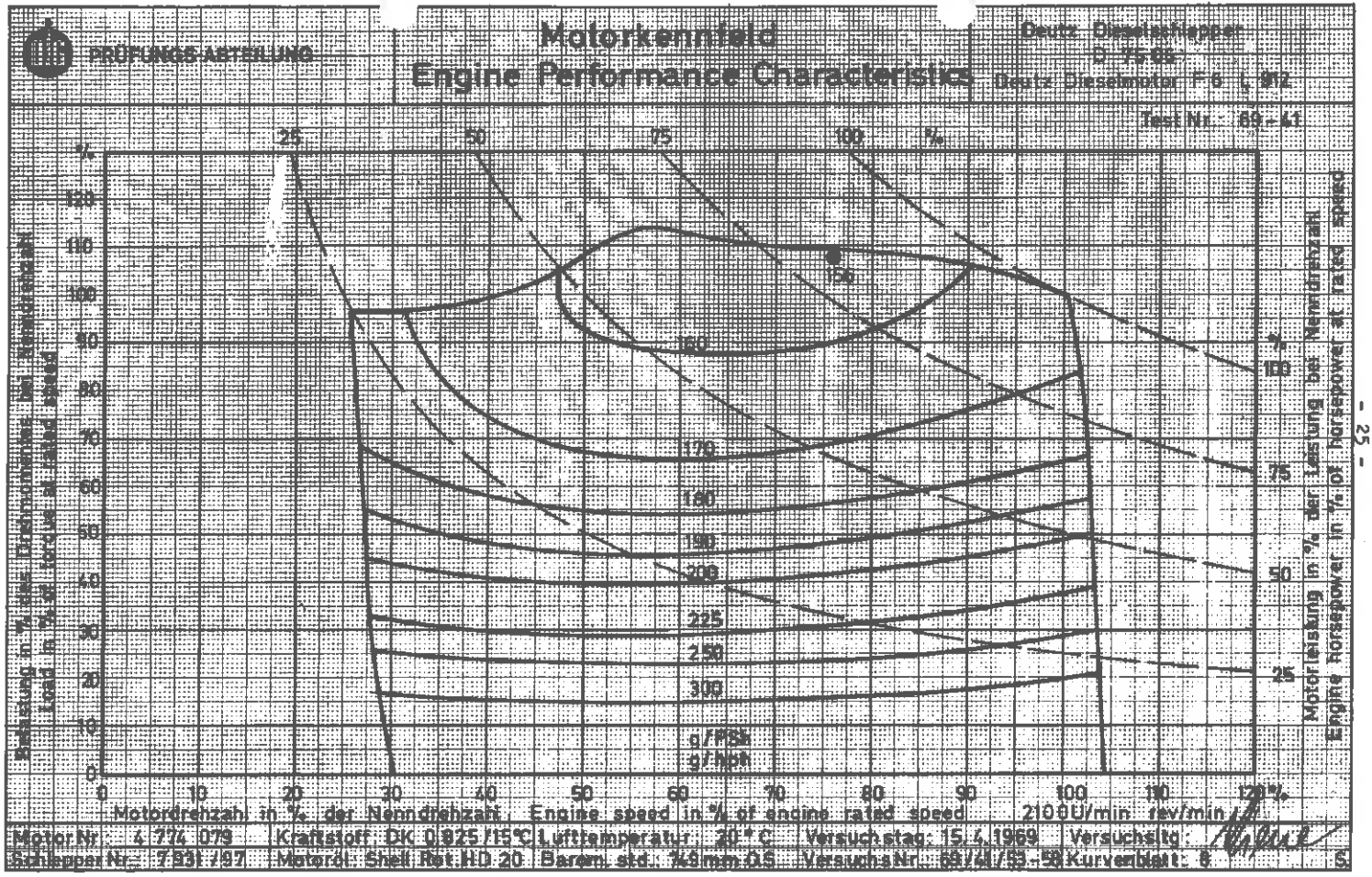
Maximum torque: 29,6 kpm at 1205 rev/min of the engine

Mean atmospheric conditions: temperature: 20°C
pressure: 749 mm Hg
relative humidity: 42%

Maximum temperatures: coolant: not recorded
engine oil: 75°C
fuel: 22°C


PRÜFUNGS-ABTEILUNG
Motorleistung
Engine - test
Deutz Dieselschlepper
D 7506
Deutz DieselmotorF6L912
Test Nr.: 69 - 41
Dauerleistung (Mittelwert) Sustained power (average)
Motorleistung Nm Crankshaft horsepower
Kraftstoffverbrauch B Fuel consumption
Motordrehzahl n Engine speed
Motordrehmoment Md Crankshaft torque
Kraftstoff-Verbrauch spez. be Fuel consumption spec.
PS
kg/h
kpm
g/PSh
g/hph
U/min
rev/min
Motor Nr.: 4 774 078
Motoröl: Shell Rot. HD 10
Versuchstag: 14.2.1969
Schlepper Nr.: 7934/97
Lufttemperatur: 20 °C
Versuchs Nr.: G 69/41/47
Kraftstoff: DK 0825/60
Einlaßdruck: 729 mm QS
Kurvenblatt: 6


PRÜFUNGS ABTEILUNG
Motorleistung
Engine - test
Deutz Dieselschlepper
D 1506
Deutz Dieselmotor F6 L 912
Test Nr.: 69-41
● Dauerleistung (Mittelwert) Sustained power (average)
U/min rev/min
kg/h
Kraftstoffverbrauch B Fuel consumption
Motordrehzahl n Engine speed
Mot. Drehmoment Md Engine torque
kpm
Spez. Kraftstoffverbrauch b Specific fuel consumption
g/PSh
g/hph
B
Md
be
Motorleistung Ne Crankshaft horsepower
PS hp/metric
Motor Nr.: 4 774 079
Kraftstoff: DK 0,825/15°C
Lufttemperatur: 20°C
Versuchstag: 14.4.1969
Versuchsstg.
Schlepper Nr.: 7931/87
Motoröl:
Rot HD 20
Barom.std.: 749 mm QS
Versuchs Nr.: 69/41/47
Kurvenblatt
S.


PRÜFUNGS-ABTEILUNG
Motorkennfeld
Engine Performance Characteristics
Deutz Dieselschlepper
D 75 06
Deutz Dieselmotor F 6 L 912
Test Nr. 69-41
Belastung in % der Drehmomentenmaximalen Last in % of torque at rated speed
Motorleistung in % der Leistung bei Nenndrehzahl Engine horsepower in % of horsepower at rated speed
Motordrehzahl in % der Nenndrehzahl Engine speed in % of engine rated speed 2100 U/min rev/min
Motor Nr. 4 774 079 Kraftstoff DK 0,825 /15°C Lufttemperatur 20° C Versuchstag: 15. 4. 1969 Versuchsltg:
Schlepper Nr. 7 931 797 Motoröl Shell Ret HD 20 Barem. std.: 749 mm QS Versuchs Nr. 69/41/55-58 Kurvenblatt: 8