

NR. 113

Report No. 4029/SF

Report on test in accordance with O.E.C.D. Test Code for  
agricultural tractors

DAIMLER - BENZ - Unimog Diesel-Tractors 421.122  
with type OM 621.122 4 cylinder engine

Manufacturer: DAIMLER - BENZ A.G., Gaggenau/Baden



Date of Test: August 1965 - March 1966

SCHLEPPER - PRÜFFELD DARMSTADT

Darmstadt - Kranichstein



# SCHLEPPER-PRÜFFELD

KURATORIUM FÜR TECHNIK IN DER LANDWIRTSCHAFT



Report on Test No.4029/SPF

UNIMOG 421.122

Manufacturer: Daimler-Benz A.G., Gaggenau/Baden  
Test requested by: Daimler-Benz A.G., Gaggenau/Baden  
Date of Test: August 1965 - March 1966

This test has been approved by the O.E.C.D.- Co-ordinating Centre ( C.N.E.E.M.A. ) Antony, Seine/France as being 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.

Date of Approval: 3rd June 1966

Number of Approval: No. 113

Darmstadt, 6. April 1966



*Y. Ramon*



TABLE OF CONTENTS

	Page
Contents of appendix	3
Section I: Specification of tractor	4- 9
Section II: Laboratory tests	
1. Compulsory tests at the main p.t.o.	10
2. Supplementary tests: Engine tests	11
Section III: Drawbar tests on concrete track	
a) Tests with ballast and all-wheel drive	12-13
b) Tests without ballast and all-wheel drive	14
Section IV: Location of centre of gravity	15
Turning space and turning radius	15
Section V: Repairs and adjustments during tests and remarks	15
Appendix:	16-24



CONTENTS OF APPENDIX

	Page
<u>LABORATORY TESTS</u>	
<u>Compulsory tests at main p.t.o.</u>	
Curves of p.t.o. horse power, equivalent crankshaft torque and specific fuel consumption versus engine speed	16
Curves of engine speed, equivalent crankshaft torque and fuel consumption versus p.t.o. horse power	17
<u>Supplementary tests</u>	
<u>Engine tests</u>	
Curves of engine horse power, crankshaft torque and fuel consumption versus engine speed	18
Curves of engine speed, crankshaft torque and fuel consumption versus engine horse power	19
<u>DRAWBAR TESTS</u>	
<u>a) With ballast and all-wheel drive</u>	
Curves of drawbar horse power and wheel-slip versus drawbar pull	20
Curves of specific fuel consumption versus drawbar pull	21
Curves of drawbar horse power and wheel-slip versus drawbar pull	22
Curves of specific fuel consumption versus drawbar pull	23
<u>b) Without ballast and all-wheel drive</u>	
Curves of drawbar horse power and wheel-slip versus drawbar pull	24



S E C T I O N I

SPECIFICATION OF TRACTOR

Tractor

Make: Daimler-Benz A.G., Gaggenau/Baden  
Model: Unimog Type 421.122  
Type: Frame type with all-wheel drive  
No.: Serial No. 421.122-10-900004

Engine

Make: Daimler-Benz A.G., Stuttgart-Untertürkheim  
Model: OM 621.931  
Type: Four-stroke Diesel with precombustion chamber  
No.: Serial No. 621.931-10-000 017

Rated engine output (manufacturers rating) : 40 hp (metric)  
Rated engine speed: 3000 rev/min

Cylinders:

4 cylinders, vertical in line, 87 mm bore x 83,6 mm stroke, piston displacement 1,988 l, compression ratio 21,3:1, monobloc without liners, overhead valves

Rated speeds:

For p.t.o. work: 3000 rev/min  
for field drawbar work: 3000 rev/min

Fuel system:

Fuel, commercially available diesel oil;  
Bosch type PES 4 M50 C 320/3 RS 44 injection pump;  
Bosch type DNO SD 151 injection nozzles;  
Bosch type FP/K 22 M 3/8 feed pump;  
injection timing 26° before TDC  
injection pressure 115 kp/cm<sup>2</sup>  
Filter: Strainer in tank, sediment bowl, Bosch 2-stage felt-tube filter  
Capacity of fuel tank: 75 l

Governor:

Bosch type EP/RSV 350-1500 MOB 119 DR, mechanical centrifugal variable speed governor, governed range of engine speed 725 to 3185 rev/min

Air cleaner:

Mann and Hummel type LW 218/29 or Knecht type MLW 5650/3, oil bath cleaner, oil capacity 0,25 l.



**Oiling system:**

Forced feed from gear type pump with strainer in sump,  
full flow filter Knecht combined filter type with  
prefilter and fine filter cartridge

recommended oil in winter HD SAE 10  
in summer HD SAE 20  
in the tropics HD SAE 30

oil-change period: 200 hr  
oil-capacity: 5 l

**Cooling system:**

Pressurised water cooling, impeller assisted with  
400 mm dia 11 blade fan and by pass thermostat  
for temperature control.

Cooling water capacity 16 l,

Transmission

**Clutch:**

LUK type D 16, foot pedal operated

**Gearbox:**

Make: Daimler-Benz A.G., Gaggenau/Baden  
type Unimog 421, fully synchro-meshed;  
6 forward speeds, 2 reverse;  
Optional reduction gear with 6 intermediate speeds,  
4 creeping speeds, 4 crawling speeds and 6 reverse.  
oil capacity 7,5 l

**Differential:**

Make: Daimler-Benz A.G., Gaggenau/Baden,  
bevel gear type differential and spur gear final  
drive; differential lock fitted, pneumatically  
operated by hand lever.

**Speeds:**

of change-speed gears

Gear No.	Number of engine revolutions for one revolution of driving wheel	Theoretical travelling speed for 3000 r.p.m. rated speed of engine, km/h
<u>Forward</u>		
1.	131,4:1	3,57
2.	72,4:1	6,48
3.	39,36:1	11,92
4.	21,70:1	21,6
5.	13,42:1	35,0
6.	8,80:1	53,3
<u>Reverse</u>		
1.	177,1:1	2,65
2.	97,6:1	4,81



Additional speeds with reduction gear fitted (optional)

Intermediate Speeds

Gear No.	Number of engine revolutions for one revolution of driving wheel	Theoretical travelling speed for 2550 r.p.m. rated speed of engine, km/h
<u>Forward</u>		
1.	174,6:1	2,69
2.	96,3:1	4,87
3.	52,31:1	8,97
4.	28,84:1	16,27
5.	17,83:1	26,3
6.	11,69:1	40,1
<u>Reverse</u>		
1.	235,4:1	1,99
2.	129,8:1	3,62

Creeping Speeds

<u>Forward</u>		
1.	771,3:1	0,609
2.	425,2:1	1,104
3.	231,1:1	2,031
4.	127,4:1	3,68
<u>Reverse</u>		
1.	1039,5:1	0,451
2.	573,2:1	0,819

Crawling Speeds

<u>Forward</u>		
1.	7082:1	0,066
2.	3905:1	0,120
3.	2122:1	0,221
4.	1170:1	0,401
<u>Reverse</u>		
1.	9545:1	0,049
2.	5263:1	0,089



Steering  
device:

Make: Zahnradfabrik Friedrichshafen A.G., Friedrichshafen  
Z.F. Gemmer-steering type 38 A.  
Optional Z.F. servo-steering type Ross hydro steering.

Brakes:

Hand-brake mechanically acting on rear wheels  
Foot-brake mechanically acting on all wheels  
as Simplex internal shoe type brake; optional with  
air pressure boosting acting as a one-cycle type or  
a dual-cycle type brake.

Wheels

Steering wheels:

Two at front. Tyres 10,5/10-18 6 PR pneumatic  
(acc. to DIN 7793) or optionally 7,50-18 6 PR,  
10,5-20 6 and 8 PR, 12,5-18 8 PR.  
Track 1360 mm  
Maximum permissible weight on each tyre  
1625 kg at 2,5 kp/cm<sup>2</sup> and 20 km/h  
1250 kg at 2,5 kp/cm<sup>2</sup> and 80 km/h

Driving wheels:

Four, two at front and two at rear.  
Tyres 10,5/10-18 6 PR pneumatic (acc. to DIN 7793)  
or optionally 10,5-20 8 PR.  
Track 1360 mm  
Maximum permissible weight on each tyre  
1625 kg at 2,5 kp/cm<sup>2</sup> and 20 km/h  
1250 kg at 2,5 kp/cm<sup>2</sup> and 80 km/h

Wheelbase 2250 mm

Power take-off

- a) Main p.t.o.: Power take-off (optional live power  
take-off)  
Location: At rear of tractor, 810 mm above ground, 175 mm  
to the left of tractor centre line  
Dimensions: Spline shaft 29 x 34,9 x 8,7 mm; 1 3/8"  
(acc. to DIN 9611 Form A; B.S. 1495:1958 and  
SAE J 718)  
Speed: 571 rev/min at rated engine speed (acc. to  
DIN 9611 and B.S. 1495:1958)  
Direction of rotation: Clockwise viewed from tractor rear.
- b) Front p.t.o.: Dimensions, speed and direction of rota-  
tion same as stated for main p.t.o. under a)  
Location: At frontend of tractor, 790 mm above ground,  
180 mm to the left of tractor centre line.



Power lift

Make Westinghouse G.m.b.H., Hannover live hydraulic system with dual acting ram, vee-belt driven gear type pump. Two dual control valves for lifting-, neutral-, pressing- and floating position as well as for controlling the hydraulic quickcouplings at the front end of the tractor. The rear power lift may be changed over to the lifting cylinder of the auxiliary three-way tipping platform or to the remote control of free cylinders on implements. Oil capacity 13 l; maximum oil pressure 150 kp/cm<sup>2</sup>, maximum oil flow 16 l/min at 150 kp/cm<sup>2</sup> (manufacturers figure) at rated engine speed.  
Maximum load lifteable throug complete range of movement at the ends of the lower links 1100 kp.

Implement linkage

Three point linkage categorie I, hydraulically controlled by power lift, make Daimler-Benz A.G.

Drawbar

Fixed on implement linkage, controlled by power lift, with central hole and 4 holes with 80 mm distance each apart either side of centre line (acc. to DIN 9676). Vertical adjustment from 180 mm to 1030 mm. Distance from rear axle in horizontal position of lower links 1035 mm. (Rigid fixed drawbar available, not fixed on tractor tested).

Trailer hitch

At rear of tractor, height above ground 820 mm; distance from rear axle centre 420 mm.

Towing hitch

At front of tractor, height above ground 705 mm. Bumper at front may be used for pushing.

Electrical equipment

Voltage: 12 Volt  
Generator: Bosch G.m.b.H., Stuttgart, type K 1 14 V 35 A  
Battery: lead acid 12 Volt, 88 Ah  
Starting device: Bosch G.m.b.H., Stuttgart, screw-push starter motor type LJD 1.8/12 R 104; starting aid by glowing plugs.  
Lighting equipment 12 Volt; acc. to StVZO (German Suppl. Highway Code)

Overall dimensions

Overall length: 4285 mm (without three-point linkage)  
Overall width: 1750 mm  
Overall height: 2100 mm (with top)  
Maximum ground clearance: 415 mm (below tractor centre line)  
515 mm (at 384 mm = 1/4 of track apart either side of tractor centre line)



Weights

With implement linkage, power lift, full fuel tank, oil, cooling water and top, as tested, but without driver

	Without load on auxiliary platform	With load on auxiliary platform
On front wheels	1431	1918
On rear wheels	969	1887
Total	2400	3805

Special remarks

Auxiliary loading platform

The tractor may be equipped with an auxiliary platform with the dimensions 1,75 x 1,50 x 0,36 m or 1,48 x 1,50 x 0,36 m respectively. Depending on the permissible total weight as well as the respective equipment used, the load on the platform will be appr. 1,25 tons.

Loading-height above ground: 1095 mm (unloaded)

Permissible weights      Max. permissible total weight 3700 kg

Tire dimensions

	10,5-18 6 PR kg	10,5-20 8 PR kg
--	--------------------	--------------------

Perm. front axle load	2200	2200
Perm. rear axle load	2300	2300

Max. permissible total weight at speed limit of 20 km/h is 4750 kg.

Tire dimensions

	10,5-18 6 PR kg	10,5-20 8 PR kg
--	--------------------	--------------------

Perm. front axle load	2950	2950
Perm. rear axle load	2950	2950

For vehicles carrying rotary snow ploughs there apply special weights.



SECTION II

LABORATORY TESTS

1. COMPULSORY TESTS

Main power take-off test

Date and location of test: 23.8.1965, Schlepper-Prüffeld,  
Darmstadt-Kranichstein

Type of dynamometer: Schenck hydraulic brake

Position of governor control: Fully open

Fuel: Shell diesel-fuel, density 0,832 kg/l at 15°C,  
commercial quality in accordance with DIN 51 601

Engine oil: Veedol HD SAE 20

Transmission oil: SAE 90

Horse power metric hp	Speeds engine		Torque equiv. kpm	Fuel consumption			Mean temperatures				Atm. press mm Hg
	rpm	rpm		l/h	g/hph	hph/l	Coolt. °C	Engine oil °C	Fuel °C	Room °C	
<u>A. Maximum power, 2 h</u>											
39,1	3040	579	9,2	12,25	260	3,19	90	80	28	37	742
<u>B. Power at standard p.t.o.-speed</u>											
36,7	2835	540	9,28	11,02	249	3,32	90	80	26	32	742
<u>C. Power at maximum torque</u>											
31,6	2210	421	10,25	9,10	239	3,47	80	70	24	28	742
<u>D. Power at engine rated speed</u>											
38,8	3000	571	9,27	12,30	264	3,16	90	80	27	35	742

No load, maximum engine speed 3225 rev/min



2. SUPPLEMENTARY TESTS

a) Engine tests

Date and location of tests: 19.8.1965, Schlepper-Prüffeld,  
Darmstadt-Kranichstein

Type of dynamometer: Schenck water brake

Position of governor control: Fully open

Fuel: Shell diesel-fuel, density 0,832 kg/l at 15°C,  
commercial quality in accordance with DIN 51 601

Engine oil: Veedol HD SAE 20

Horse power metric hp	Engine speed r.p.m.	Torque kpm	Fuel consumption			Mean temperatures				Atm. press mm Hg.
			l/h	g/hph	hph/l	Coolt. °C	Engine oil °C	Fuel °C	Room °C	
<u>A. Maximum power, 2 h</u>										
41,6	3010	9,96	12,50	249	3,32	90	70	28	32	753
<u>B. Power at standard p.t.o.-speed</u>										
39,3	2830	9,95	11,45	242	3,43	80	60	27	30	751
<u>C. Power at maximum torque</u>										
31,4	2040	11,02	8,42	222	3,73	70	90	30	35	753
<u>D. Power at rated engine speed</u>										
41,5	3000	9,90	12,40	248	3,35	85	68	28	32	753

No load, maximum engine speed 3210 rev/min



S E C T I O N III

DRAWBAR TESTS ON ARTIFICIAL TRACK

Date of tests: 16.9.1965-3.3.1966  
Type of track: Concrete  
Position of governor control: Fully open  
Type of tyres: Rear 10-18 6 PR Conti Titan  
Front 10-18 6 PR Conti Titan

Fuel: Shell diesel-fuel, density 0,832 kg/l at 15°C,  
commercial quality in accordance with DIN 51 601

Engine oil: Veedol HD SAE 20

Transmission oil: SAE 90

a) TESTS WITH BALLAST

Weight of tractor with driver

Without ballast: at front 1494 kg, at rear 988 kg  
With ballast: at front 1887 kg, at rear 1918 kg  
Total with ballast: 3805 kg

Weight of ballast

Supplementary load on platform 1323 kg

Tyre inflation pressure

Front: 2,0 kp/cm<sup>2</sup>  
Rear: 2,5 kp/cm<sup>2</sup>

Height of drawbar above ground: 500 mm (acc. to DIN 9670)



1. Maximum powers and pulls

Tests carried out with all-wheel-drive

Gear No.	Horse power metric hp	Maximum powers			Speed km/h	Water temp. °C	Air temp. °C	Atm. press mm Hg.	Maximum pulls	
		Pull kp	Wheel slip %	Engine speed r.p.m.					Pull kp	Reason for stall
1.S.G.	-	-	-	-	-	-	-	4330	Wheel spin	
2.S.G.	-	-	-	-	-	-	-	4320	Wheel spin	
3.S.G.	-	-	-	-	-	-	-	4310	Wheel spin	
4.S.G.	-	-	-	-	-	-	-	4300	Wheel spin	
1.K.G.	-	-	-	-	-	-	-	4280	Wheel spin	
2.K.G.	-	-	-	-	-	-	-	4260	Wheel spin	
3.K.G.	27,3	4000	14,3	3100	1,84	78	13	750	4240 Wheel spin	
1.Z.G.	30,8	3315	9,3	2995	2,51	80	26	753	3710 Engine stall	
1.W.G.	31,5	2455	6,1	3000	3,46	80	26	753	2835 Engine stall	
4.K.G.	32,2	2450	5,7	3010	3,55	79	13	750	2790 Engine stall	
2.Z.G.	32,4	1812	4,2	3000	4,82	79	17	753	2044 Engine stall	
2.W.G.	32,6	1360	3,1	3005	6,47	80	15	753	1564 Engine stall	
3.Z.G.	32,7	970	2,0	3005	9,09	80	22	754	1108 Engine stall	
3.W.G.	32,4	722	1,3	3000	12,11	82	22	754	842 Engine stall	
4.Z.G.	30,9	498	1,1	3000	16,75	80	19	754	606 Engine stall	
4.W.G.	28,9	354	0,9	2995	22,00	79	18	754	430 Engine stall	

2. Fuel consumption

Gear No.	Optimum fuel consumption			Range of pull kp over which specific fuel consumption does not exceed optimum consumption by more than 10 %
	Spec. fuel-consumption g/hph	Drawbar hph/l	corresponding pull kp	
1.S.G.	-	-	-	-
2.S.G.	-	-	-	-
3.S.G.	-	-	-	-
4.S.G.	-	-	-	-
1.K.G.	-	-	-	-
2.K.G.	-	-	-	-
3.K.G.	338	2,05	4000	2550-4200
1.Z.G.	315	2,74	3710	2350-3710
1.W.G.	292	2,84	2835	2504-2835
4.K.G.	290	2,87	2790	2050-2790
2.Z.G.	287	2,90	2044	1530-2044
2.W.G.	281	2,96	1564	1380-1564
3.Z.G.	287	2,90	1108	975-1108
3.W.G.	269	3,09	842	780- 842
4.Z.G.	281	2,96	606	565- 606
4.W.G.	282	2,95	430	425- 430

Remarks: W.G.= change-speed gear      K.G.= creeping speeds  
 Z.G.= intermediate speeds            S.G.= crawling speeds



b) TESTS WITHOUT BALLAST

Weight of tractor with driver

Front: 1494 kg  
Rear: 988 kg  
Total: 2482 kg

Tyre inflation pressure

Front: 2,0 kp/cm<sup>2</sup>  
Rear: 2,5 kp/cm<sup>2</sup>

Height of drawbar above ground: 500 mm (acc. to DIN 9670)

1. Maximum powers and pulls

Test carried out with all-wheel-drive

Gear No.	Horse power metric hp	Maximum powers			Speed km/h	Water temp. °C	Air temp. °C	Atm. press mm Hg.	Maximum pulls	
		Pull kp	Wheel slip %	Engine speed r.p.m.					Pull kp	Reason for stall:
1.Z.G.	25,5	2740	12,9	3105	2,51	78	17	751	2835	Wheel spin
1.W.G.	31,6	2520	8,6	3000	3,38	82	27	751	2805	Engine stall
4.K.G.	32,1	2560	8,4	3000	3,39	75	12	750	2800	Engine stall
2.Z.G.	32,6	1832	5,2	3000	4,80	81	23	751	2288	Engine stall
2.W.G.	33,4	1394	4,1	3000	6,46	80	22	751	1572	Engine stall
3.Z.G.	33,1	986	2,6	3000	9,06	83	30	751	1120	Engine stall
3.W.G.	33,6	746	1,6	3000	12,15	80	25	751	854	Engine stall
4.Z.G.	32,4	522	1,2	3000	16,75	80	20	751	592	Engine stall
4.W.G.	29,9	362	0,6	3000	22,3	80	20	751	456	Engine stall

Remarks: W.G.= change-speed gears      K.G.= creeping speeds  
Z.G.= intermediate speeds      S.G.= crawling speeds



SECTION IV

1. Location of centre of gravity

Tractor equipped as in		Test III.a) ballasted	Test III.b) unballasted
Height above ground	mm	x)	765 mm
Distance forward from the vertical plane containing the axis of the rear axle	mm	1135 mm	1440 mm
Distance from the median plane parallel to the longitudinal axis of the tractor bisecting the track	mm	0	0

x) depending on kind of load on platform

2. Turning space and turning radius

Tractor weight and wheel equipment as tested in section III.a), track front 1360 mm  
rear 1360 mm

	with rear-wheel drive only		with all-wheel drive	
	right-hand m	left-hand m	right-hand m	left-hand m
Radius of turning space	9,8	9,8	10,1	10,3
Turning radius	9,0	9,0	9,3	9,5

SECTION V

- Repairs and adjustments during tests: none
- Remarks: none

Darstadt, am 6. April 1966



*Franken G. P. Pfeiffer*

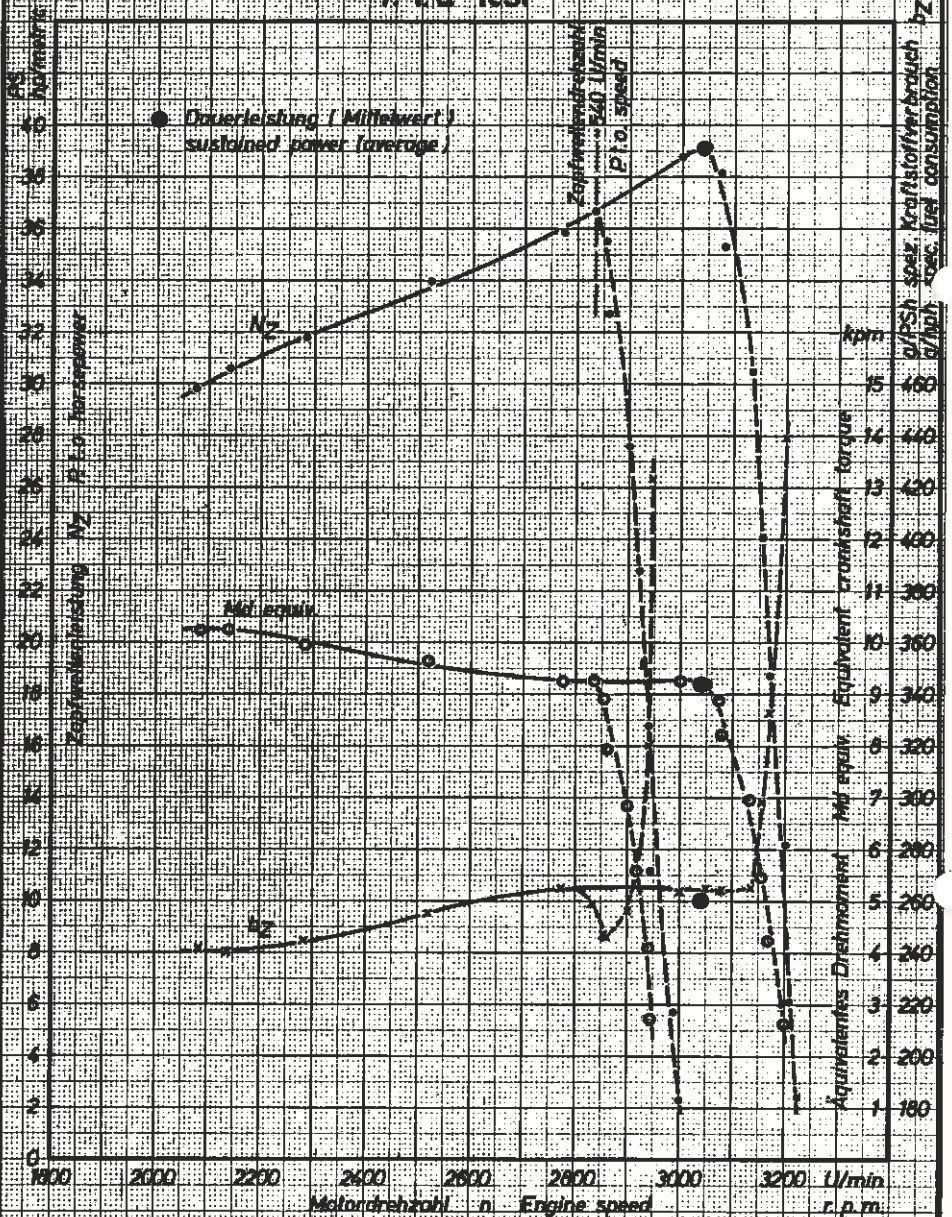
Schiepperprüffeld  
Darmstadt

Zapfwellenleistung

D.B. Unimog 421.122  
D.B. Dieselmotor 62f.931

P.t.a. test

Test Nr.: 4029



Motor-Nr.: 10-000077	Motoröl: Veedol HD 20	Versuchstag: 23.8.1965	Versuchssta:
Schiepper-Nr.: 970004	Lufttemperatur: 35°C	Versuchs-Nr.: 83/4029/63	<i>Malice</i>
Kraftstoff: DK O, 832/115°C	Barometerstd.: 742, mm QS	Kurvenblatt: 1	Fr.

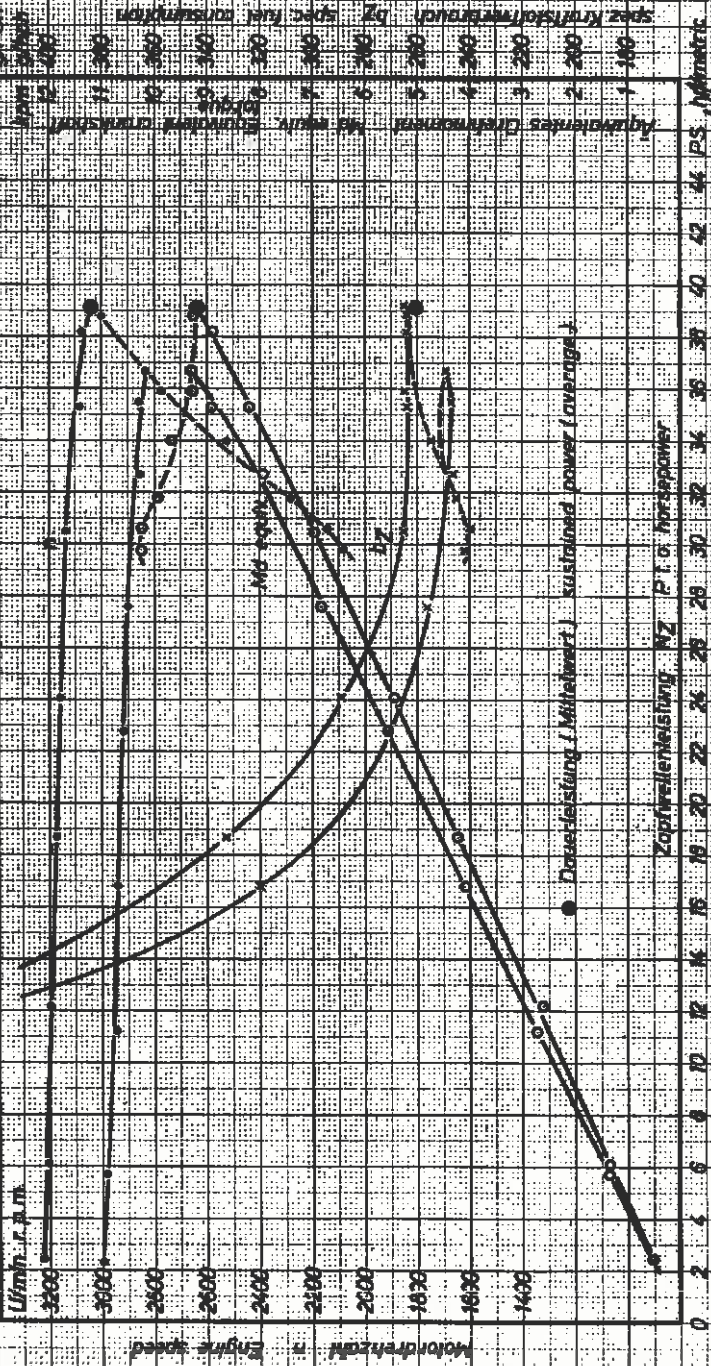
Schlepperprüffeld  
Darmstadt

Zapfwellenleistung

Dat. Leistung 121.024  
D.A. Bauelemente 597.511

P 1.0 - test

Teil Nr. 5025



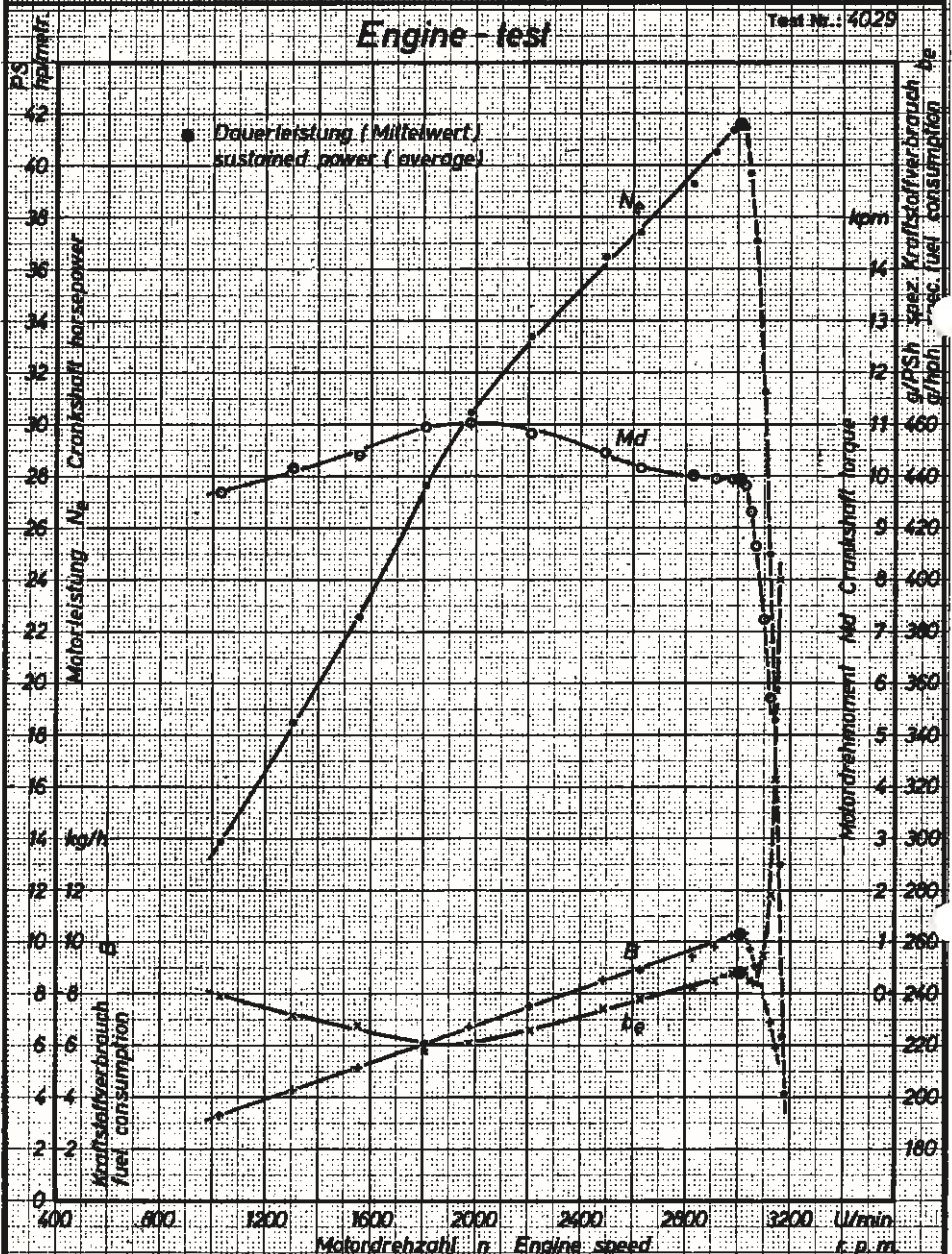
Motor Nr. 10-00011  
Schlepperr Nr. 50004

Kraftstoff DK 0537 5°C  
Motoröl: Medol HC 20  
Barometrischer Luftdruck: 762 mm Hg  
Lufttemperatur: 33°C

Leistungs-NZ P.T.O. horsepower  
Versuchstag: 23.6.1965  
Versuchsnr.: 687.402/55

Motorleistung  
Kraftstoffverbrauch  
spez. Kraftstoffverbrauch  
by spec. fuel consumption

Motor Nr. 10-00011  
Schlepperr Nr. 50004

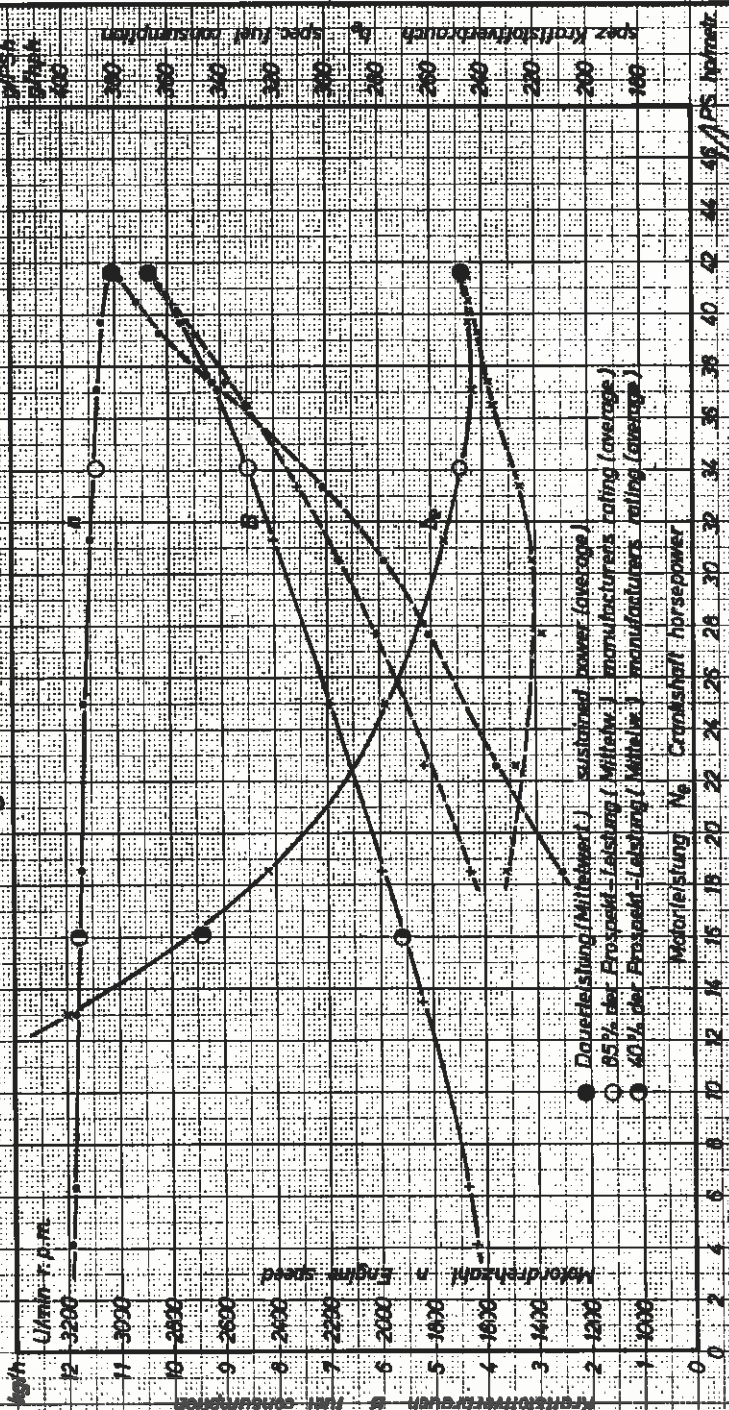


Motor Nr.: 10 - 000017	Motoröl: Virdal HD 80	Versuchstag: 19. 8. 1965	Versuchs-Nr.:
Schlepper Nr.: 900004	Lufttemperatur: 33°C	Versuchs-Nr.: 71/4029/65	<i>Handwritten signature</i> Fl.
Kraftstoff: DK 0,832/15°C	Barometerstd.: 753 mm QS	Kurvenblatt: 3	

Schlepperprüffeld  
Darmstadt

Motorleistung

Engine test



Motor Nr.: U-000017 Kraftstoff: D.K. 0,8327 / 15°C Lufttemperatur: 33°C Versuchsstag: 19. 6. 1955  
 Schleppl. Nr.: 940004 Motorl. (Kessell. 107.27) Barometerstand: 753 mm Hg. Barometer Nr.: 7174029765 Versuchsleit.: *M. B. B. B.*  
 Test Nr.: 4128 Kurvenblatt: *M. B. B. B.*

48 PS Normstr.

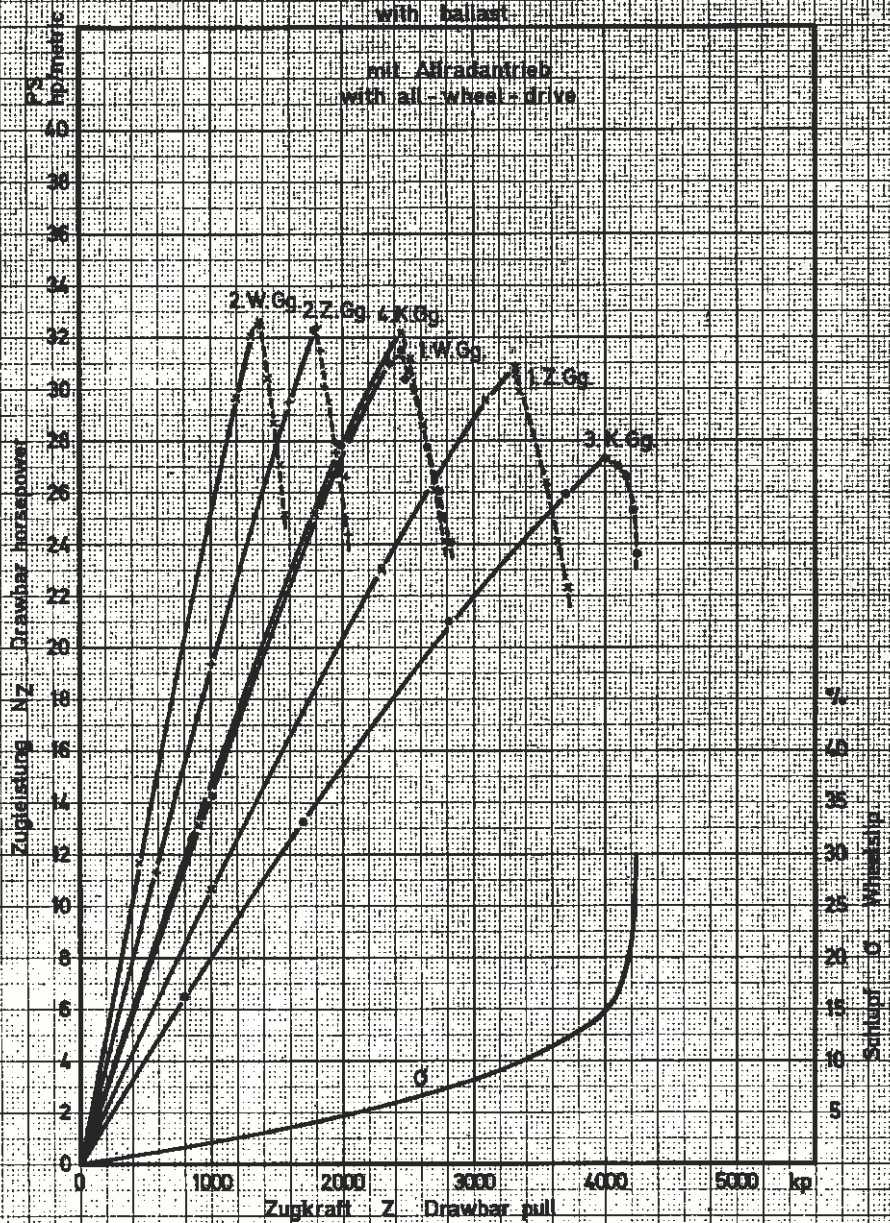
**Schlepperprüffeld  
Darmstadt**

**Zugprüfung  
mit Ballast**

D. B. Unimog 421-122  
D. B. Dieselmotor 621-931

**Drawbar - test  
with ballast**

Test Nr. 4029



Motor Nr.: 10-000017	Motoröl: Veedol HD 20	Versuchstag: 9.1965-3.1966	Versuchsbl.:
Schlepper Nr.: 900004	Lufttemperatur: 20° C	Versuchs Nr.: 4029/225/66	<i>Müller</i>
Kraftstoff DK O,832 / 15°C	Barometerstd.: 754mm QS	Kurvenblatt: 5	

Schlepperprüffeld  
Darmstadt

### Zugprüfung

spez Kraftstoffverbrauch  
mit Ballast

D.B. Unimeg 421.122

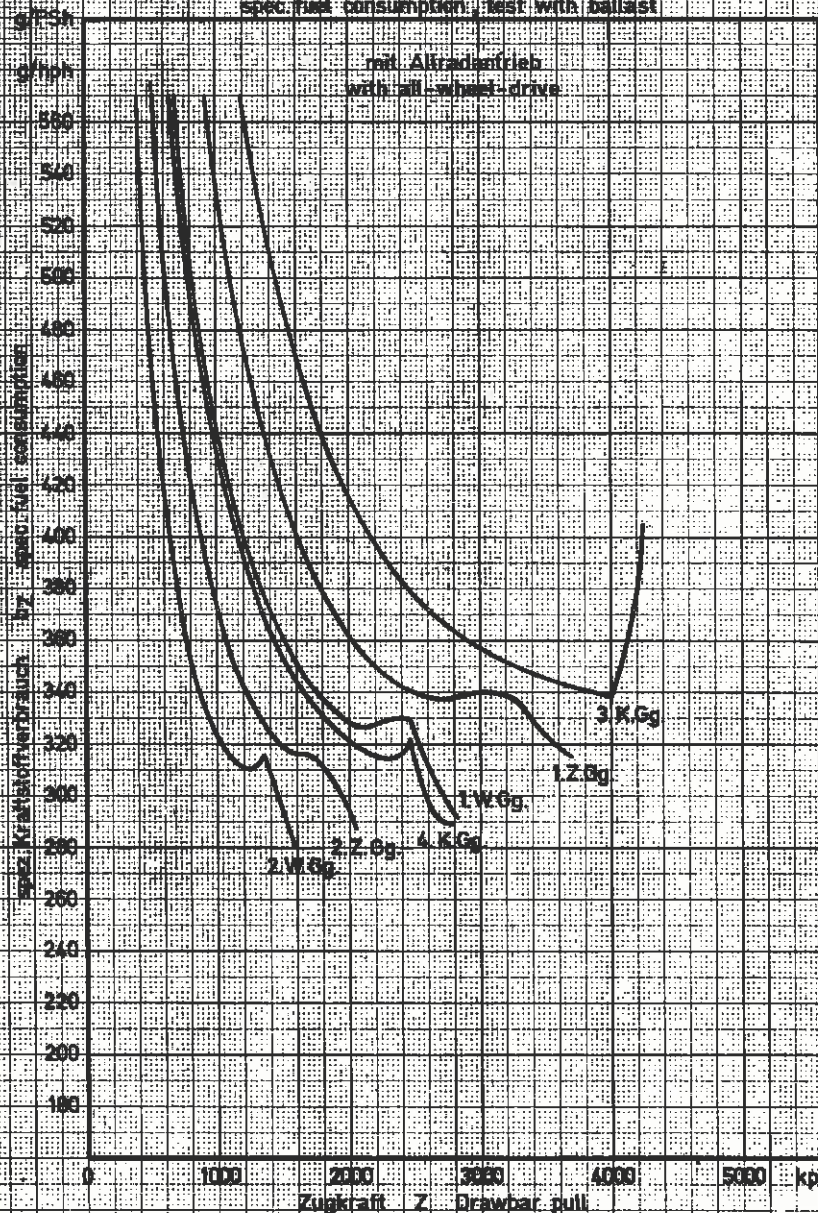
D.B. Dieselmotor 621.93F

### Drawbar-test

Test Nr.: 4029

spec. fuel consumption, test with ballast

mit Allradantrieb  
with all-wheel-drive



Motor Nr.: 10-00017	Motoröl: Veedol HD 20	Versuchstag: 9.1955-3.1956	Versuchshtg.:
Schlepper Nr.: 900004	Lufttemperatur: 20°C	Versuchs Nr.: 4029/225166	<i>W. R. ...</i>
Kraftstoff: DK 0 832/15°C	Barometerstd.: 754 mm QS	Kurvenblatt: 6	

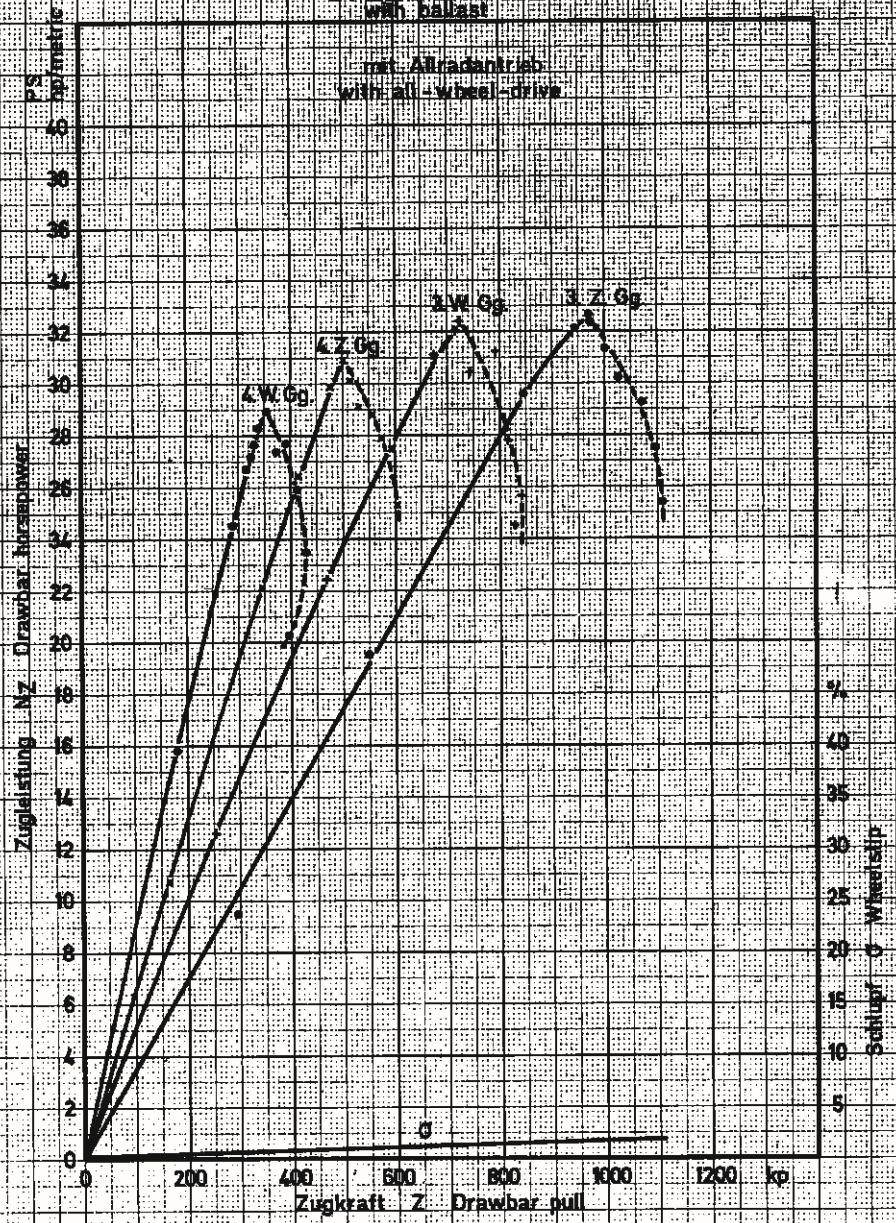
Schlepperprüffeld  
Darmstadt

Zugprüfung  
mit Ballast

D.B. Unimog 421 122  
G.B. Dieselmotor 621 931

Drawbar - test  
with ballast

Test Nr.: 4029



Motor Nr.: 10-000017	Motoröl: Veedel HD20	Versuchstag: 15.16.9 1965	Versuchsleitg.: <i>W. Müller</i>
Schlepper Nr.: 900004	Lufttemperatur: 20°C	Versuchs Nr.: 4029/225/65	FL
Kraftstoff: DK 0 8327/15 C	Barometerstd.: 754 mm QS	Kurvenblatt: 7	

Schlepperprüffeld  
Darmstadt

Zugprüfung

spez. Kraftstoffverbrauch  
mit Ballast

D.B. Unsmög 42.122

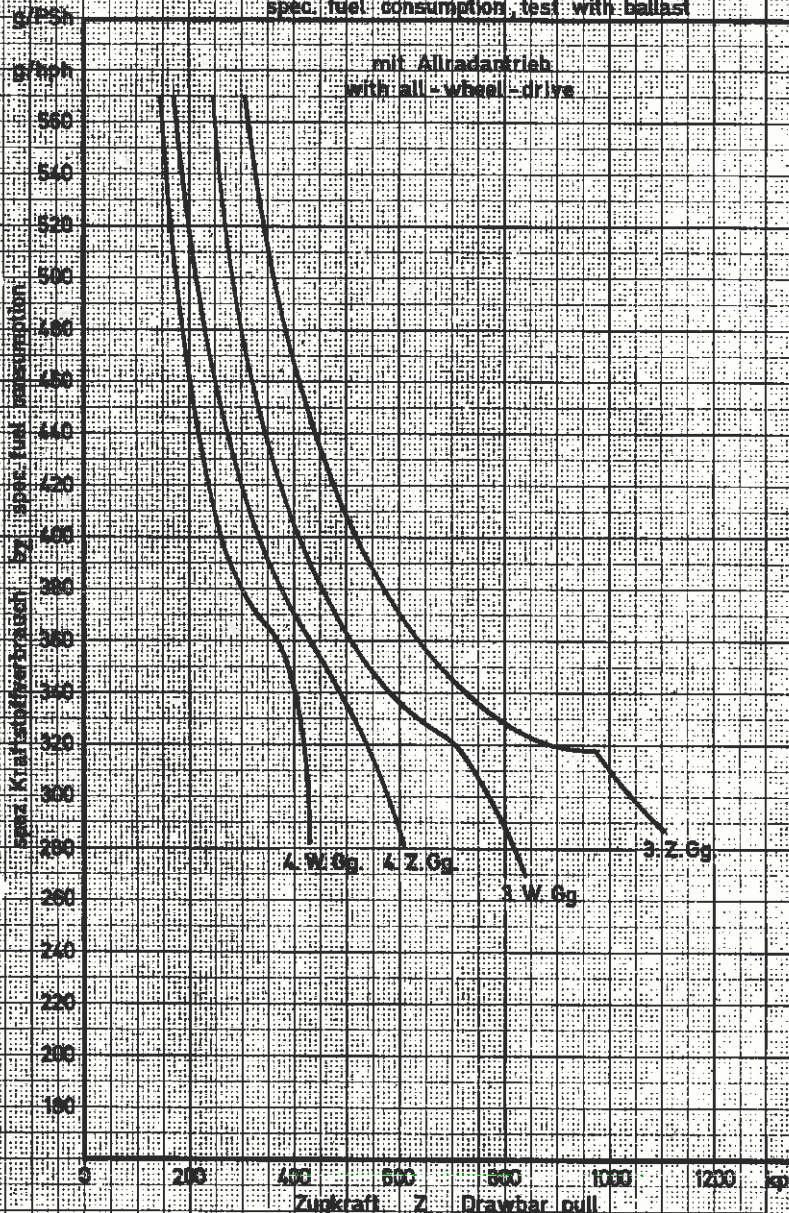
D.B. Dieselmotor 821.931

Drawbar - test

Test Nr.: 4029

spec. fuel consumption, test with ballast

mit Allradantrieb  
with all-wheel-drive



Mot.Nr.: 10-00017

Motoröl: Yesso HD 20

Versuchstag: 15.11.1965

Verfasser: *W. K...*

Schlepper Nr.: 300004

Lufttemperatur: 20°C

Versuchs Nr.: 4029/225/65

Kraftstoff: DK C 832 / 16°C

Barometerstd.: 754 mm QS

Kurvenblatt: 8

Fl.

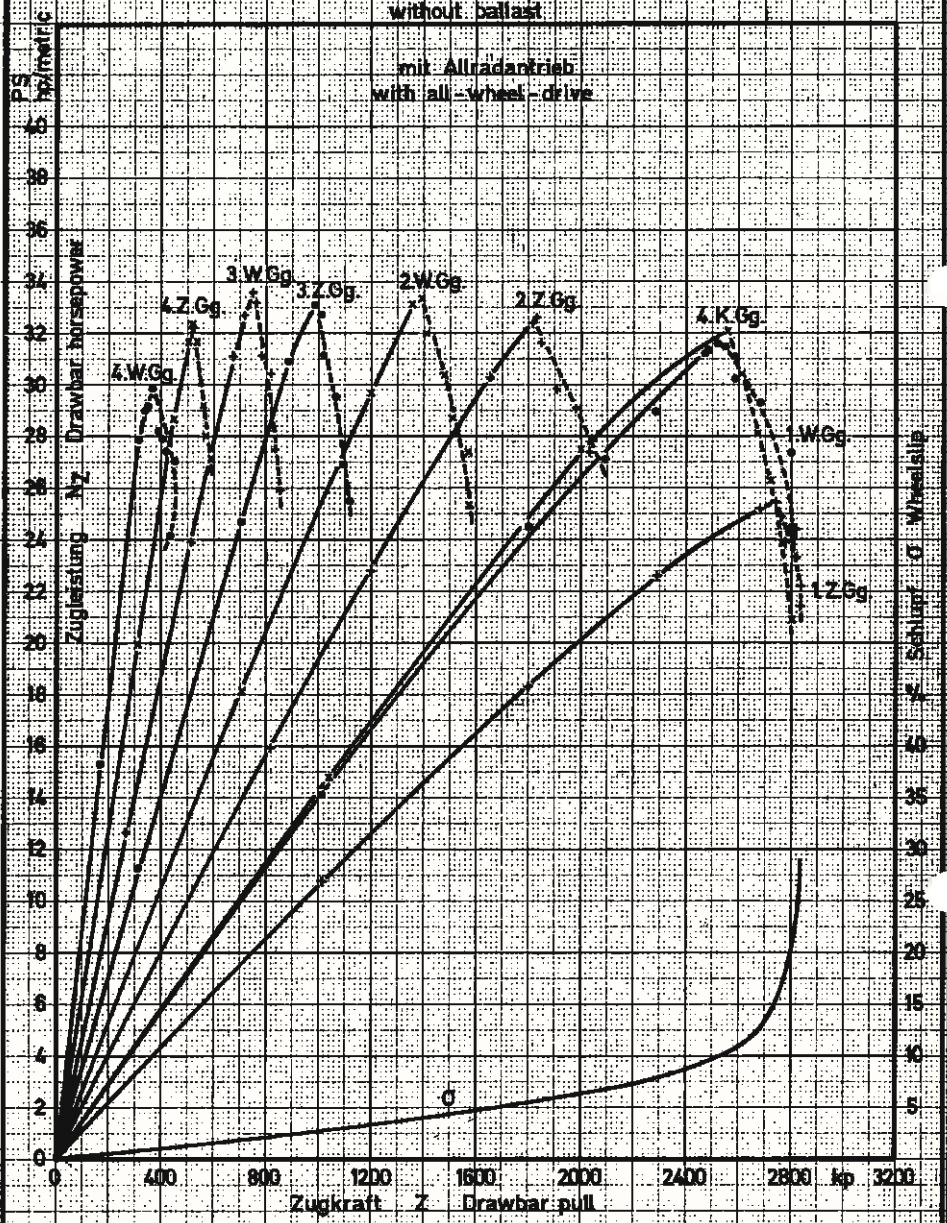
Schlepperprüffeld  
Darmstadt

Zugprüfung  
ohne Ballast

D.B. Unimog 421.122  
D.B. Dieselmotor 621.931

Drawbar-test  
without ballast

Test Nr.: 4029



Motor Nr.: 10-000017	Motoröl: Veedol HD 20	Versuchstag: 9.1965-3.1966	Versuchs-Nr.: 4029/234/68
Schlepper Nr.: 900004	Lufttemperatur: 20°C	Kurvenblatt: 9	
Kraftstoff: DK 0832 / J5°C	Barometerstd.: 751 mm QS		



Annex  
to test report No. 4029/SPF

Test of p.t.o. power  
at high temperature of ambient air

This additional test is not provided in the O.E.C.D. Test-Code according which the tractor D.-B. Unimog 421.122 has been tested. The test at hot ambient air conditions has been carried out in accordance with the new O.E.C.D. Test-Code 1966 on the responsibility of the Schlepper-Prüffeld Darmstadt.

Darmstadt, 1. April 1966



P.T.O.-POWER AT HIGH TEMPERATURE  
OF AMBIENT AIR.

Date and location of tests: 9. March 1966,  
Schlepper-Prüffeld Darmstadt

Limiting temperatures specified by the manufacturer:

Coolant: 108°C at 0,4 kp/cm<sup>2</sup> pressure in cooling system  
Engine oil: no specification

Special equipment fitted: none, specifications of the cooling  
system see main test report on page 5

Fuel: Shell Diesel-oil, density at 15°C: 0,83 kg/l  
commercially available quality in accordance with DIN 51 601

Oil:

Engine: Veedol HD SAE 30  
Transmission: Shell SAE 90

Results of tests

Ambient tempera- ture °C	Power at the p.t.o. PS(metric)	Speed of p.t.o.   engine		Coolant temperature °C	Engine oil temperature °C	Atmospheric pressure mm Hg.
		rev/min	rev/min			
54	35,5	571	3000	108	124	751

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c





the 1990s, the number of people with a mental health problem has increased in the UK, and the number of people with a mental health problem who are in contact with mental health services has also increased (Mental Health Act 1983, 1990, 1994).

There is a growing awareness of the need to improve the lives of people with a mental health problem, and to reduce the stigma and discrimination that they experience. This has led to a number of initiatives, including the development of self-help materials, the establishment of self-help groups, and the development of self-help programmes.

Self-help programmes are designed to help people with a mental health problem to manage their condition, and to improve their quality of life. They can be used by people who are in contact with mental health services, and by people who are not in contact with mental health services. Self-help programmes can be used in a number of ways, including as a supplement to professional help, as a primary form of help, and as a means of preventing a relapse.

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the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million (19.5% of the population).

There is a growing awareness of the need to address the needs of older people, and the Government has set out a strategy for the 21st century in the White Paper on *Ageing Better: The Government's Strategy for Older People* (Department of Health 1999). This sets out a vision of a society in which older people are able to live well, and to contribute to society. The White Paper sets out a number of key objectives, including: to improve the health and well-being of older people; to support older people to live independently; to ensure that older people are able to participate in society; and to ensure that older people are able to live in their own homes.

The White Paper also sets out a number of key actions to be taken to achieve these objectives, including: to improve the health and well-being of older people; to support older people to live independently; to ensure that older people are able to participate in society; and to ensure that older people are able to live in their own homes. The White Paper also sets out a number of key actions to be taken to achieve these objectives, including: to improve the health and well-being of older people; to support older people to live independently; to ensure that older people are able to participate in society; and to ensure that older people are able to live in their own homes.

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