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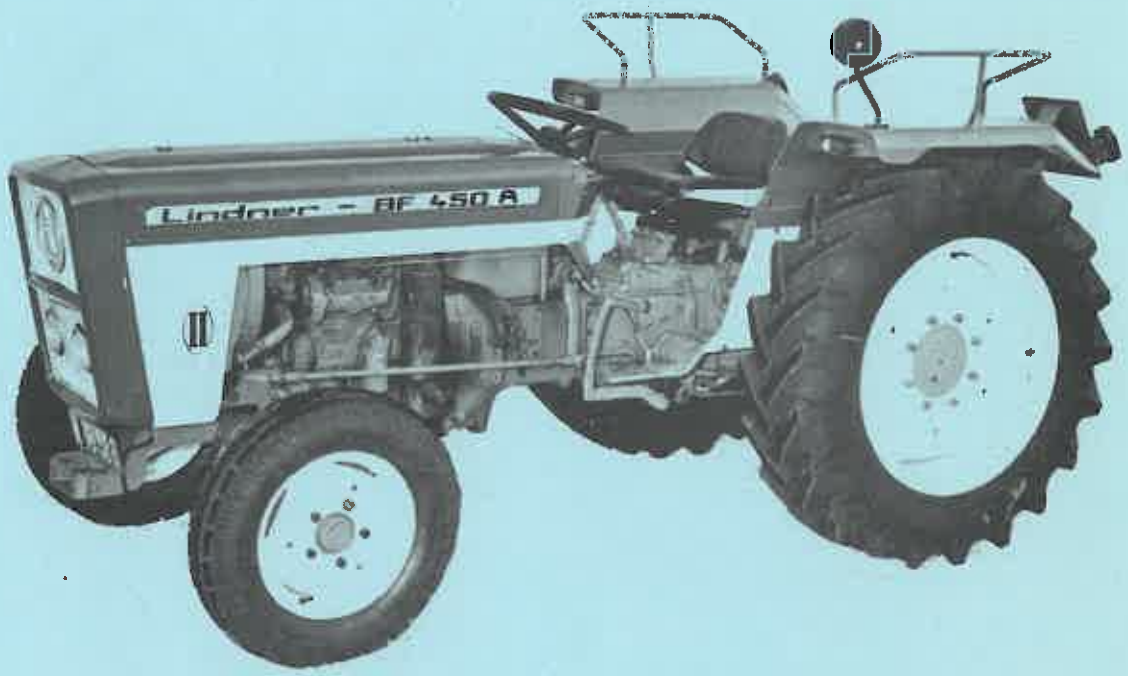
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O.E.C.D. Report No.: 268

REPORT ON TEST IN ACCORDANCE WITH O.E.C.D. TEST CODE FOR AGRICULTURAL TRACTORS

LINDNER-DIESEL-TRACTOR »BF 450 A«

Manufactured by: Traktorenwerk Lindner KG.,
Kundl, Tirol,
Austria



Test No.: 041/68

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. Tractor Test Code

Date of Approval: 22. 4. 1969 Serial No.: 268

BUNDESVERSUCHS- UND PRÜFUNGSANSTALT FÜR LANDWIRTSCHAFTLICHE MASCHINEN UND GERÄTE, WIESELBURG

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 an practical farm work.

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Tractor manufacturer:	TRAKTORENWERK LINDNER KG., Kundl/Tirol
Submitted for test by:	Manufacturer
Selected by:	Bundesversuchs- und Prüfungsanstalt für landwirtschaftliche Maschinen und Geräte, Wieselburg a.d.Erlauf
Place of running-in:	Traktorenwerk Lindner KG., Kundl/Tirol
Duration of running-in:	10 hours

SPECIFICATION OF TRACTOR

Tractor

Make:	Traktorenwerk Lindner KG., Kundl/Tirol
Model:	BF 450 A
Type:	Wheel tractor
Serial No.:	1726

Engine

Make:	F. Perkins Ltd., Peterborough, Great-Britain
Model:	D.3152
Type:	Direct injection, type Diesel, 4-stroke
Serial No.:	152U/6666 D
Cylinders:	3 cylinders, vertical in line, bore/stroke: 91,5/127 mm, capacity: 2502 cm^3; compression ratio: 18,5 : 1; arrangement of valves: overhead; cylinder type: wet liners
Fuel system:	Type of fuel feed: diaphragm feed pump; fuel filter: coarse filter (sieving filter, fine filter DOD FF 23; capacity of fuel tank: appr. 42 litres; injection pump: CAV-distributor pump RW 52/800/3/2430; manufacturer's production setting: injection timing 26° before TDC; injection nozzle: three holes nozzle PERKINS BDLL 150 S 6372; manufacturer's production setting: injection pressure 170 kp/cm^2; quantity of fuel feed: 24 mm^3/stroke at 2400 rev/min
Governor:	Make: CAV-centrifugal governor/Great-Britain; Range of speed: 600 to 2550 rev/min Rated speeds for p.t.o.-work (540 rev/min) 2340 rev/mi for field-work ..... 2400 rev/mi for transportation-work ..... 2400 rev/mi for belt work ..... 2300 rev/mi

Air cleaner:	Make: IFE 810-5100A; type: oil bath air cleaner; oil capacity: appr. 0,3 l SAE 20/30
Lubrication system:	Forced feed gear type pump; type of filter: oil filter in full flow, replaceable filter; oil capacity: appr. 7,0 l SAE 20/30; change period: 150 hours
Cooling system:	Water cooling, impeller assisted an 4-blade fan; cooling water capacity: 11 l; thermostat with distance thermometer
Starting system:	Electrical; LUCAS type 26220 M 45 C, 12 V; cold starting: heater plug CAV 12 V, No. 1854050

Electrical system:

Voltage:	12 V
Generator:	LUCAS 22703J 5 67 C10A; direct current
Battery:	BANNER acid battery 12 V, 98 Ah

Transmission:

Clutch:	Make: FICHTEL & SACHS; model: DO 225/250; dual dry clutch, foot pedal operated
Gearbox:	Make: ZF-Passau A 210 24 DMxS; type: group gearbox, 2 x 4 forward speeds and 4 reverse (2 gear shift levers)
Rear axle and final drive:	Make: ZF-Passau; type: bevel gear drive with Gleason-spiral cut, acting by planetary gear and portal drive on rear wheels; differential lock: lockable bevel differential gear in the rear axle operated by hand lever
Oil capacity:	Gearbox and rear axle: 19 l SAE 90; planetary gear: 1,25 l SAE 90 for each half-axle; change period: 800 hours

Group gear	Gear No.	Number of engine revolutions for one revolution of the driving wheel	Nominal travelling speed for rated speed of engine 2400 rev/min
I	1.L.	330,12	1,6 km/h
	2.L.	188,68	2,8
	3.L.	114,83	4,6
	4.L.	70,58	7,5
II	1.S.	89,51	5,9
	2.S.	52,40	10,1
	3.S.	31,66	16,7
	4.S.	19,57	27,0
Reverse	1.	176,08	3,0
	2.	103,89	5,1
	3.	63,66	8,3
	4.	39,34	13,5

Power-take-off:

Location:	At rear in vertical centre plane of tractor, 487 mm above ground
Dimensions:	29 x 34,9 x 8,7, 6 splines A DIN 9611
Speed:	553 rev/min at rated engine speed 2400 rev/m engine speed 2340 rev/min at standard p.t.o. speed 540 rev/min
Direction of rotation:	Right viewed from driving end
Ground speed:	Distance travelled for one revolution of p.t.o. 0,186 m
Number of p.t.o. revolutions for one revolution of driving wheel	19,72; direction of rotation right viewed facing driving end with tractor in forward gear
Mower drive:	In vertical centre plane of tractor, drive by V-belt pulley, operated by hand lever

Belt pulley:

Location:	At rear right, drive from the main p.t.o.
Dimensions:	180 mm dia, 125 mm width
Speed:	Linear 939 m/min and 1659 rev/min at rated engine speed 2400 rev/min
Engine speed:	2300 rev/min at standard linear speed 900 m/min
Direction of rotation:	Right viewed from shaft end

Power lift:

Make: ZF-Passau A-210, control gear BOSCH HY/S 10 C2/175 B1; type: oil hydraulic, gear pump driven by V-belt from engine; oil pressure: 165 kp/cm^2; oil capacity: 6 l Mobil SAE 20 HD; vertical lift movement: from 760 to 1080 mm on the lift lever

Pull attachments:

Drawbar:	Fixed in three point implement linkage; height above ground at max. mech. advantage: max. 745 mm; min. 235 mm; height above ground at min. mech. advantage: max. 880 mm, min. 130 mm; method of changing position: adjustable by power lift; distance from rear axle at 450 mm height above ground: 830 mm; position relative to p.t.o.: 560 mm; central hole and 3 holes with 80 mm distance apart either side of central hole
Trailer hitch:	Height above ground: 830/800/770/740/680 and 380 mm by changing trailer hitch case; distance from rear axle: 340 mm; position relative to p.t.o.: 75 mm

Towing hitch:	Height above ground: 470 mm; distance from front axle: 310 mm
Steering:	Make: ZF-Gemmer; model: 7337 900 157; type: worm roller steering; method of operation: mechanical, by hand wheel
Brakes:	Make: ZF-Passau; type: mechanical internal shoe brake acting on rear wheels; method of operation: by foot pedal; type of parking brake: mechanical internal shoe brake acting on rear wheels; method of operation: by hand lever
Wheels:	
Steering wheels:	Two at front; type of tyres: tractor front wheel tyres A 7 METZELER; size: 7,50-18 Extra Special; ply rating: 6; maximum permissible weight on each tyre: 1000 kp at 3,5 kp/cm^2 pressure; track width: 1320 mm; method of changing: at changed wheels 1530 mm
Driving wheels:	Two at rear; type of tyres: tractor driving wheel tyres M 137 B SEMPERIT; size: 12,4/11-28 AS; ply rating: 4; rim size: W10 x 28; maximum permissible weight on each tyre: 950 kp at 1 kp/cm^2 pressure; track width: 1360 mm; method of changing: at changed wheels 1480 mm
Wheel base:	1945 mm
Tractor and ballast weights:	
(without driver but with tank full)	
Weight without ballast:	Front: 795 kp Rear: 1120 kp Total: 1915 kp
Ballast:	Front 1 weight before front axle 186 kp; Rear 3 weights per wheel: 144 kp; total: 288 kp
Weight with full ballast:	Front: 981 kp Rear: 1408 kp Total: 2389 kp
Seat:	Make: BOSTROM; model: XL Nordic/Great-Britain; suspension: cup seat arranged on torsion spring; damping: hydraulic; adjustment: by screw on right side; axial adjustment: 25 mm
Number of grease points:	(Whole tractor): 36
Overall dimensions:	
Overall length:	3130 mm, with front ballast weights 3250 mm
Overall width:	1670 mm, at changed wheels 1790 mm
Overall height:	1520 mm

Lighting:

	Height above ground of centre cm	Diameter cm	Distance from outside edge of tractor to centre cm
Head lights	73,5	10	77,5
Side lights	126	4 x 10	26
Rear lights	125	4 x 10	13
Reflectors	60,5	7	39

FUEL AND LUBRICANTS USED IN TESTS

Laboratory tests: Fuel: ELAN Diesel fuel, specific gravity at 15°C: 0,840 kp/l, Cetane No. 46,8 (quality corresponds with DIN 51601); engine oil: MOBIL-OIL A SAE 30 HD; transmission oil: MOBILUBE GX 90 SAE 90

Track tests: Fuel ELAN Diesel fuel, specific gravity at 15°C: 0,840 kp/l, Cetane No. 46,8 (quality corresponds with DIN 51601); engine oil: MOBIL-OIL A SAE 30 HD; transmission oil: MOBILUBE GX 90 SAE 90

COMPULSORY TESTS

POWER TAKE-OFF PERFORMANCE

Date and location of tests: 1.2.1968, Wieselburg a.d. Erlauf
Type of dynamometer: Siemens-Schuckert pendulum generator G 273/15

Horsepower (metric) hp	Speed		Fuel consumption		
	engine rev/min	p.t.o. rev/min	total l/h	specific g/hph	specific hph/l
Maximum power - 2 hours test					
41,65	2400	553	10,13	204	4,11
At standard p.t.o. speed (540 rev/min)					
41,80	2340	540	10,15	204	4,12
At standard belt speed					
41,75	2300	530/1590	10,10	203	4,13
At the speed recommended by the manufacturer for drawbar work					
42,0	2400	553	10,37	207	4,05
Fuel consumption at part loads					
85% of torque at maximum power					
36,20	2440	562	9,05	210	4,0
Unloaded					
0	2580	594	3,14	-	-
50% of torque at maximum power					
21,80	2495	575	6,61	254	3,30
Maximum power					
42,0	2400	553	10,37	207	4,05
25% of torque at maximum power					
11,10	2540	585	4,93	373	2,25
75% of torque at maximum power					
32,20	2455	566	8,28	216	3,89

No load maximum engine speed: 2580 rev/min
Torque*) at maximum power: 12,53 kpm
Maximum torque*): 15,85 kpm at 1400 rev/min of the engine
Mean atmosheric conditions: temperature: 20°C
pressure: 746 mm Hg
relative humidity: 50 %
Maximum temperature: coolant: 80°C
engine oil: 79°C
fuel: 45°C

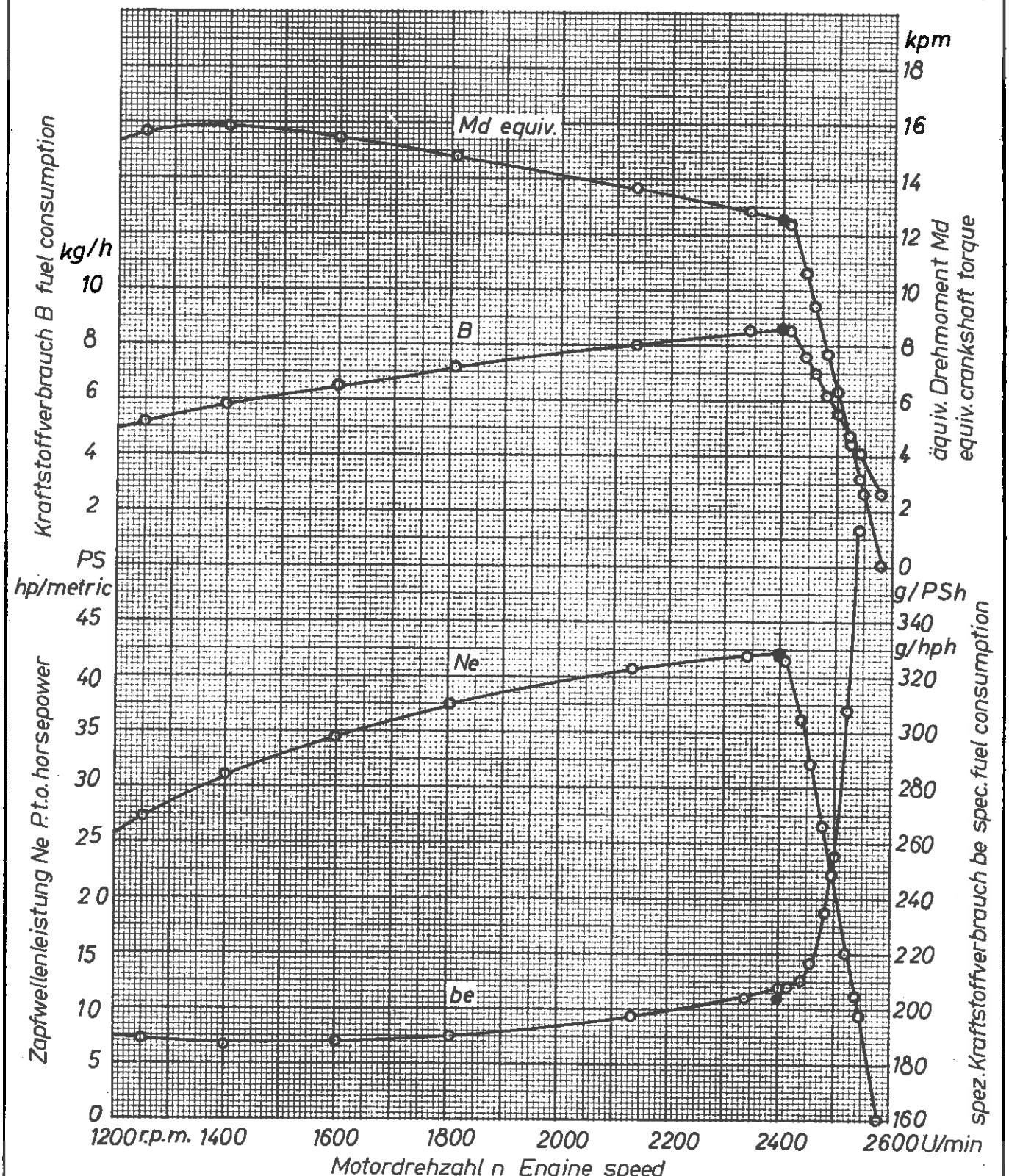
*) The torque is the equivalent crankshaft torque

BUNDESVERSUCHS-U. PRÜFUNGSANST. FÜR LANDW. MASCHINEN U. GERÄTE WIESELBURG A.D. ERLAUF PROTOKOLL NR. 041/68

Zapfwellenleistung
P.t.o.-test

Lindner-Diesel-Traktor
Typ BF 450
Mot. Typ Perkins D. 3152

●Dauerleistung (Mittelwert) sustained power (average)

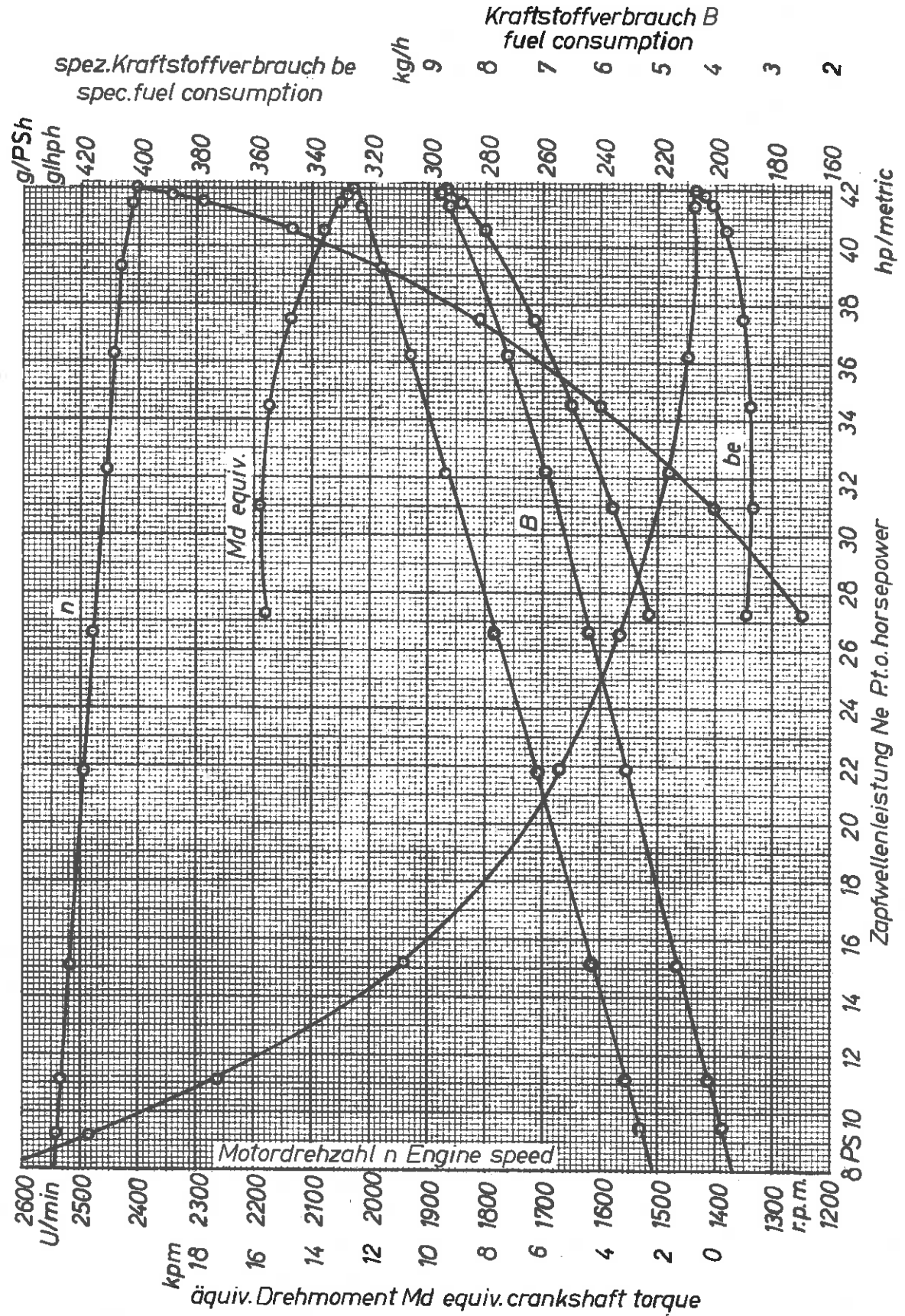


Motor Nr.: 152U/6666 D	Barometerstand: 746 mm Hg	Kühlwassertemp: 80°C	Versuchstag: 1.2.68	Vers.-Leitung:
Schlepper Nr.: 1726	Lufttemperatur: 20°C	Öltemperatur: 70° C	Versuchs Nr.: 87/Za 80	A. Reitlen
Kraftstoff: 0,840/15° C	Motoröl: Mobil SAE 30 HD	Kraftstofftemp: 40°C	Kurvenblatt: 1	

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Zapfwellenleistung
P.t.o.-test

Lindner-Diesel-Traktor
Typ BF 450
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Motor Nr.: 152U/6666 D	Barometerstand: 746 mmHg	Kühlwassertemp: 80°C	Versuchstag: 1.2.68	Vers.-Leitung:
Schlepper Nr.: 1726	Lufttemperatur: 20°C	Öltemperatur: 70°C	Versuchs Nr.: 87/Za 80	A. Reitlun
Kraftstoff: 0,840/15°C	Motoröl: Mobil SAE 30HD	Kraftstofftemp: 40°C	Kurvenblatt: 2	

DRAWBAR PERFORMANCE

Date of tests: 26th to 30th August 1968
Type of track: concrete
Height of drawbar above ground: 680 mm

Gear No.	Horse-power (metric) hp	Draw-bar 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 Tempera-ture °C	Relative humidity %	Press. mm/hg
MAXIMUM POWER (ballasted)												
1.S.	35,75	1790	2400	11,10	3,45	243	40	82	74	22	65	741
4.L.	36,85	1400	2400	8,54	3,55	236	39	81	73	23	65	741
2.S.	38,0	1050	2400	6,54	3,67	229	38	80	71	22	70	741
3.S.	35,55	580	2395	4,53	3,43	245	38	78	70	20	75	741
FIVE HOUR TEST at 75% of pull at maximum power												
1.S.	28,40	1350	2460	8,0	3,31	253	55	82	85	17	65	738
FIVE HOUR TEST at pull corresponding to 15% wheel slip												
1.S.	31,30	2100	1860	15,1	3,55	236	60	86	95	16	78	738
MAXIMUM POWER (unballasted)												
4.L.	34,80	1350	2400	11,0	3,36	250	42	81	74	25	50	745
2.S.	37,50	1040	2400	7,98	3,62	232	42	80	74	25	48	745
3.S.	35,60	585	2400	5,55	3,44	244	40	80	72	25	40	744

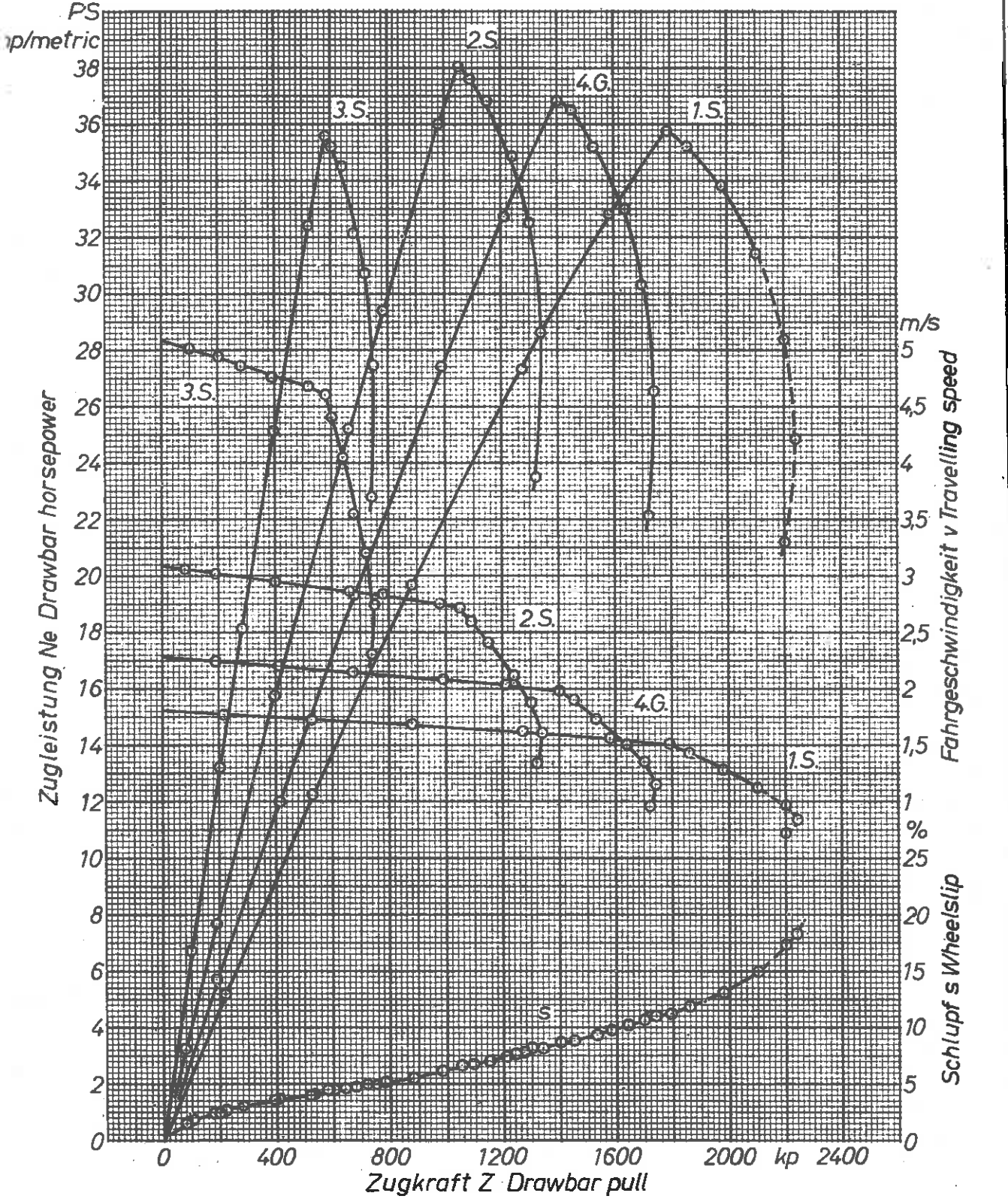
Total oil consumption during ten hours duration of test = 340 g

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Zugprüfung
Drawbar-test

Lindner-Diesel-Traktor
Typ BF 450A
Mot. Typ Perkins D. 3152

mit Ballast with ballast



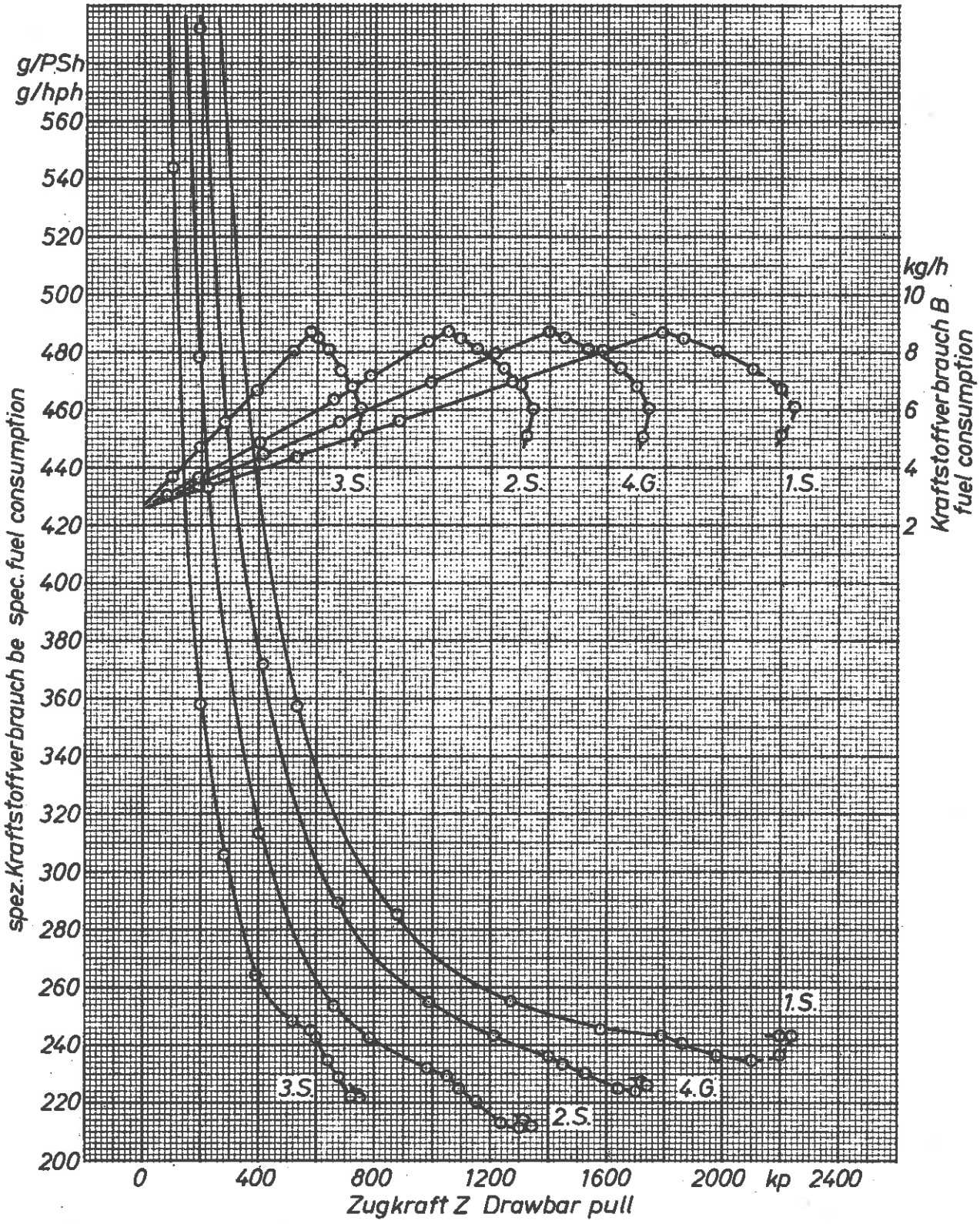
Motor Nr.: 152U/6666 D	Barometerstand: 741 mm Hg	Kühlwassertemp: 80°C	Versuchstag: 29.8.68	Vers.-Leitung:
Schlepper Nr.: 1726	Lufttemperatur: 20-23°C	Öltemperatur: 70-74°C	Versuchs Nr.: 87/Zu394-397	
Kraftstoff: 0,840/15°C	Motoröl: Mobil SAE 30HD	Kraftstofftemp: 40°C	Kurvenblatt: 3	A. Reitlhuber

BUNDESVERSUCHS-U. PRÜFUNGSANST.
FÜR LANDW. MASCHINEN U. GERÄTE
WIESELBURG A.D. ERLAUF
PROTOKOLL NR. 041/68

Zugprüfung
Drawbar-test

Lindner-Diesel-Traktor
Typ BF450A
Mot. Typ Perkins D. 3152

mit Ballast with ballast

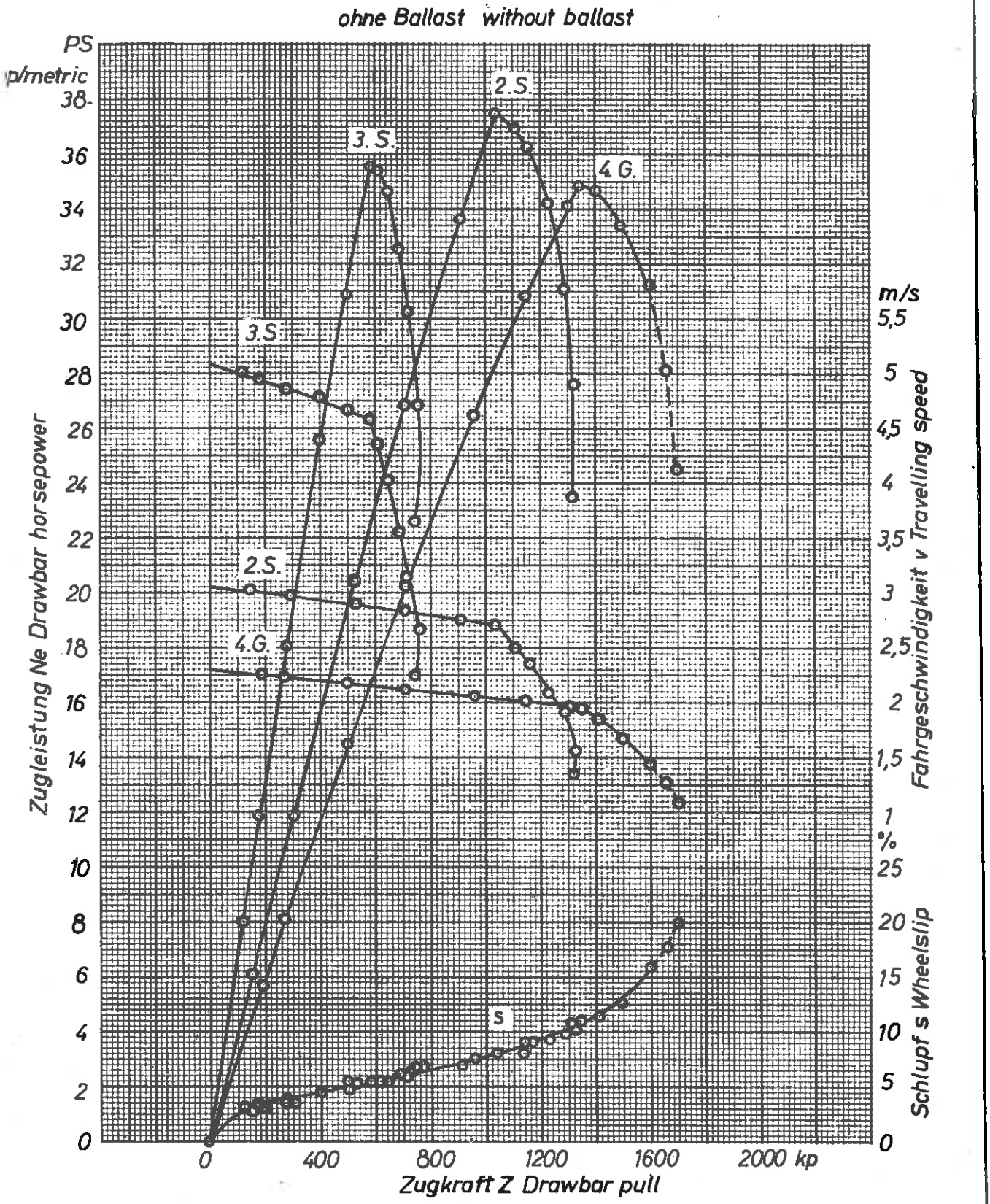


Motor Nr.: 152U/6666D	Barometerstand: 741mm Hg	Kühlwassertemp: 80°C	Versuchstag: 29.8.68	Vers.-Leitung:
Schlepper Nr.: 1726	Lufttemperatur: 20-23°C	Öltemperatur: 70-74°C	Versuchs Nr.: 87/Zu 394-397	
Kraftstoff: 0,840/15°C	Motoröl: Mobil SAE 30HD	Kraftstofftemp.: 40°C	Kurvenblatt: 4	A. Reitlen

BUNDESVERSUCHS-U. PRÜFUNGSANST. FÜR LANDW. MASCHINEN U. GERÄTE WIESELBURG A.D. ERLAUF PROTOKOLL NR. 041/68

Zugprüfung
Drawbar-test

Lindner-Diesel-Traktor
Typ BF 450A
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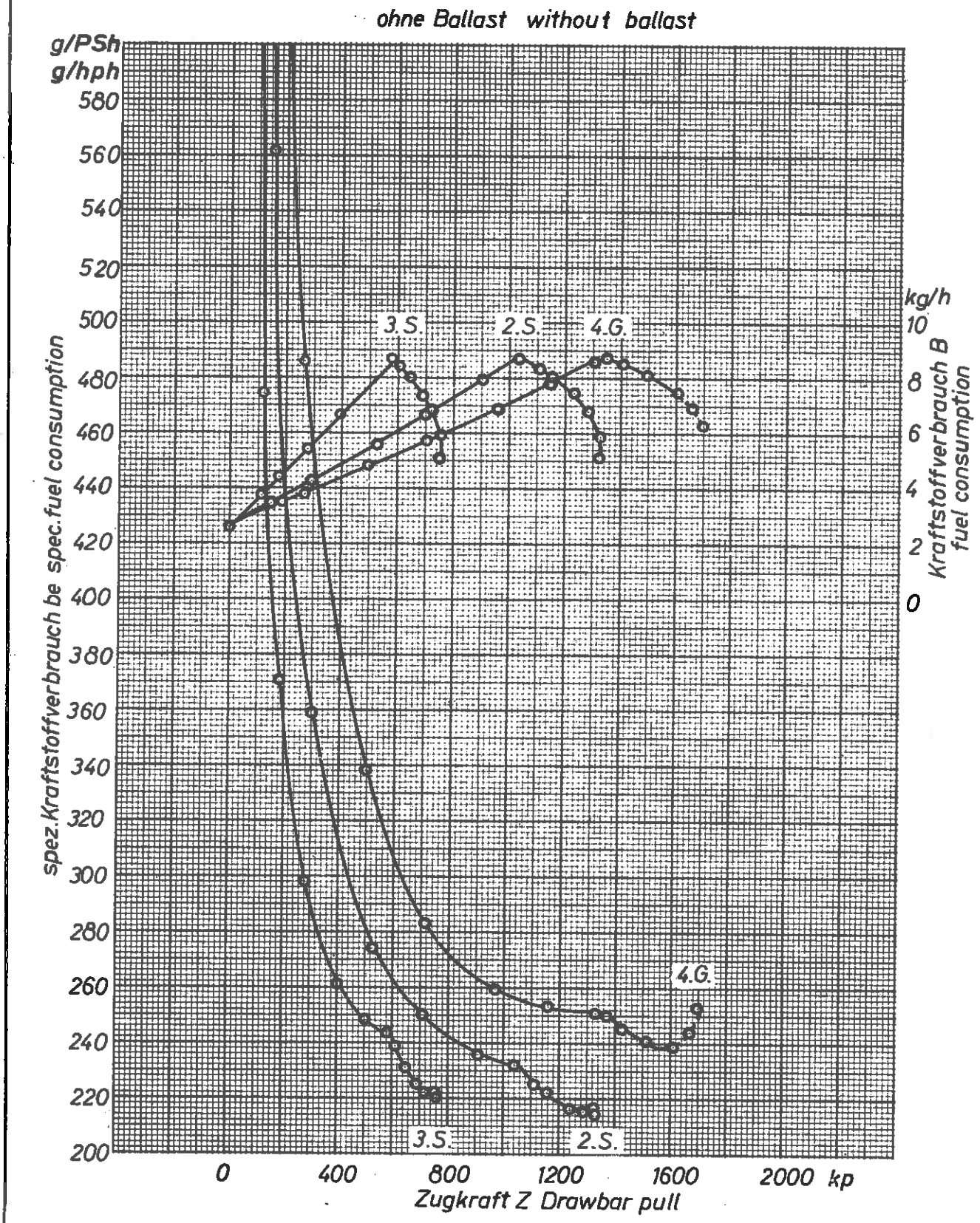


Motor Nr.: 152U/6666D	Barometerstand: 745 mmHg	Kühlwassertemp: 80°C	Versuchstag: 26.8.68	Vers.-Leitung:
Schlepper Nr.: 1726	Lufttemperatur: 25° C	Öltemperatur: 72-74°C	Versuchs Nr.: 87/Zu398-400	A. Reitlinger
Kraftstoff: 0,840 / 15° C	Motoröl: Mobil SAE 30 HD	Kraftstofftemp.: 42°C	Kurvenblatt: 5	

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Zugprüfung
Drawbar-test

Lindner-Diesel-Traktor
Typ BF 450A
Mot. Typ Perkins D.3152



Motor Nr.: 152U/6 666 D	Barometerstand: 745 mm Hg	Kühlwassertemp: 80°C	Versuchstag: 26.8.68	Vers.-Leitung:
Schlepper Nr.: 1726	Lufttemperatur: 25°C	Öltemperatur: 72-74°C	Versuchs Nr: 87/Zu 398-400	
Kraftstoff: 0,840 / 15° C	Motoröl: Mobil SAE 30HD	Kraftstofftemp.: 42°C	Kurvenblatt: 6	A. Reitlinger

TURNING SPACE AND TURNING CIRCLE

Wheel equipment front: 7,50-18 Extra Special, 6 ply, without ballast
rear : 12,4/11-28 AS, 4 ply, without ballast

Track of wheels front: 1320 mm
rear: 1360 mm

	With brakes		Without brakes	
	right-hand	left-hand	right-hand	left-hand
Radius of turning space	3,46 m	3,21 m	4,61 m	4,28 m
Radius of turning circle	3,30 m	3,05 m	4,45 m	4,12 m

LOCATION OF CENTRE OF GRAVITY

Height above ground 558 mm

Distance forward from the vertical plane containing the axis of rear wheels 792 mm

Distance from the median plane parallel to the longitudinal axis of the tractor bisecting the track 33 mm

BRAKE TESTS

Date of tests: 18th to 24th June 1968
Type of track: concrete
Instrument: Recorder for deceleration and force on pedal
No. 03382, Tüv-Typ-Prüf.-Nr. 04/Stuttgart
Travelling speed of tractor: 25 km/h

Cold brakes:

Results		Tractor without ballast	Tractor with ballast
Maximum deceleration	m/s^2	6,2	5,6
Stopping distance	m	5,6	5,3
Force on pedal	kp	45	55

Brake fade characteristics (hot test)

Tractor without ballast:
Deceleration: hot/cold 119 %
Stopping distance: cold/hot 112 %
Force on pedal: cold/hot 82 %

Efficacy of parking brake

Force on the hand lever of the brake at cold and hot condition wasn't measured, because the service brake and parking brake present one system and the hand lever fixes the pedal of service brake only. Hereby the rear wheels of the tractor slides by dragging.

MEASUREMENT OF AMBIENT NOISE EMITTED BY THE TRACTOR

Date of test: 17th June 1968
Type of track: concrete (on open land)
Type of sound level meter: Precisions Sound Level Meter Type 2203, Brüel & Kjoer/Copenhagen

Results of tests:

Gear: 4.S. (II)
Travelling speed: 20 km/h
Sound level: 88 dbA

NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of test: 29th August 1968
Type of track: concrete
Type of sound level meter: Precisions Sound Level Meter Type 2203,
Type of octavfilter: Octave Filter Set Typ 1613, Brüel & Kjoer/Copenhagen

Tractor without cab

Results of tests:

Gear	Travelling speed km/h	dbA	sones
1.S.	5,70	97	
4.L.	7,38	98	88
2.S.	10,0	97	
3.S.	16,90	97	

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

Sone evaluation according to Stevens

POWER LIFT AND HYDRAULIC PUMP PERFORMANCE

Date and location of test: 17th September 1968
Hydraulic fluid: MOBIL-Oil SAE 20 HD

	Vertical movement mm	Maximum force exerted through full range kp	pressure kp/cm^2
Linkage giving maximum mechanical advantage:	510	1450	163
At lower hitch points (height above ground in down position) 235 mm on the frame	510	1390	163
Linkage giving minimum mechanical advantage:	750	1250	163
At lower hitch points (height above ground in down position) 130 mm on the frame	750	1060	163

Type of linkage lock for transport: control mechanism fixed by a bolt

Opening pressure of the cylinder over-pressure relief valve: 165 kp/cm^2

Pump characteristics:

Opening pressure of the relief valve	165 kp/cm^2
Sustained pressure by the open relief valve	163 kp/cm^2
Pump delivery rate at minimum pressure	17,7 l/min
Pump delivery rate	14,6 l/min
Delivery pressure	163 kp/cm^2
Power (hydraulically)	5,28 hp

Relief of front axle: with frame about 1030 kp (maximum mechanical advantage);
with frame about 1040 kp (minimum mechanical advantage);

Oil temperature: 60°C

OPTIONAL TESTS

ENGINE TEST

Date and location of tests: 31.1.1968, Wieselburg a.d. Erlauf
Type of dynamometer: Siemens-Schuckert pendulum generator G 273/15

Horsepower (metric) hp	Speed		Fuel consumption		
	engine rev/min	p.t.o. rev/min	total l/h	specific g/hph	specific hph/l
Maximum power - 2 hours test					
45,20	2410	555	10,38	193	4,36
At standard p.t.o. speed (540 rev/min)					
45,20	2340	540	10,22	190	4,42
At standard belt speed					
45,0	2300	530	10,02	189	4,48
At the speed recommended by the manufacturer for drawbar work					
45,40	2400	553	10,35	191	4,39
Fuel consumption at part loads 85% of torque at maximum power					
39,60	2465	568	9,19	195	4,31
Unloaded					
0	2590	597	2,99	-	-
50% of torque at maximum power					
23,80	2515	580	6,57	232	3,62
Maximum power					
45,40	2400	553	10,35	191	4,39
25% of torque at maximum power					
12,10	2550	588	4,85	337	2,49
75% of torque at maximum power					
35,10	2480	572	8,38	200	4,19

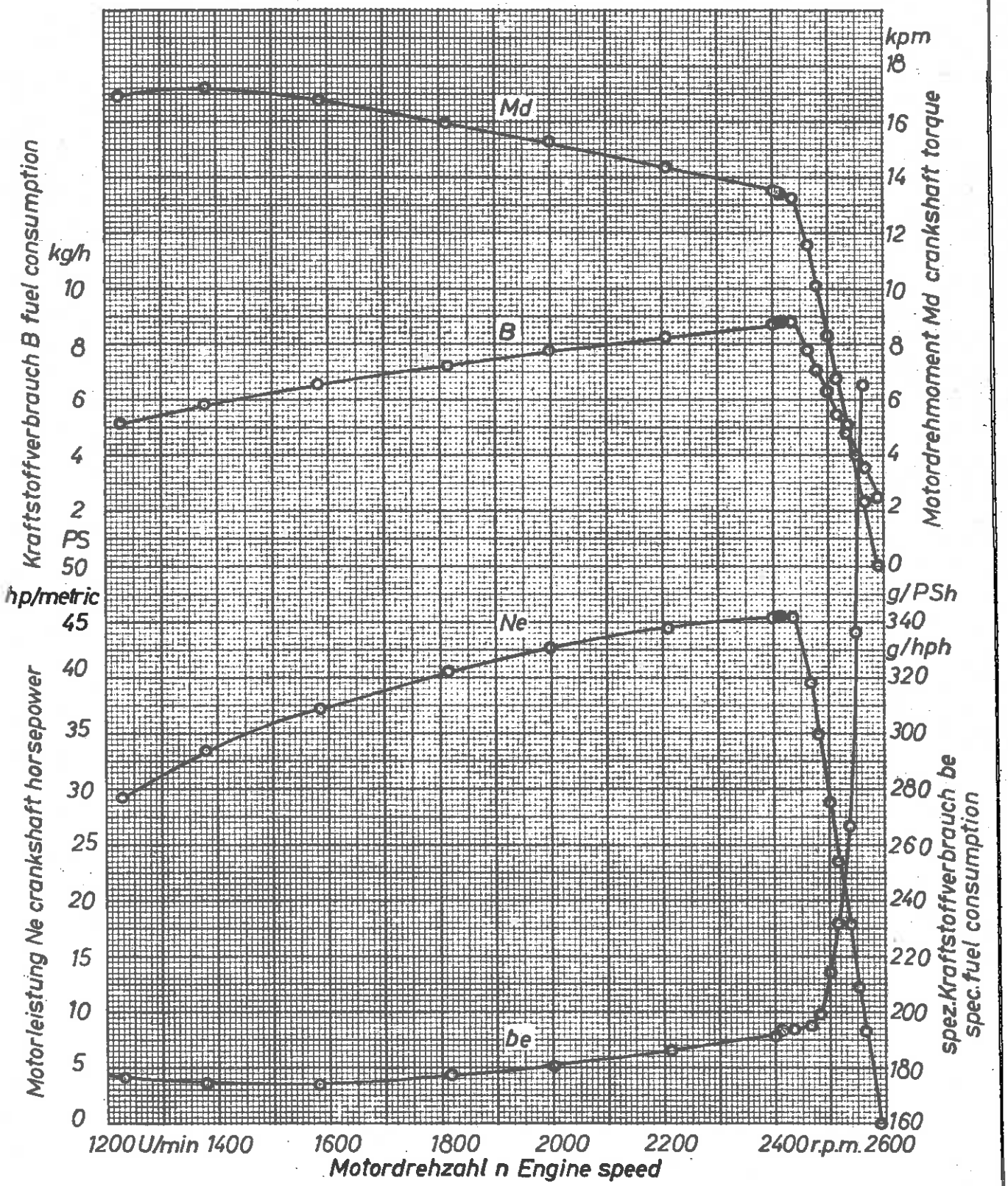
Optimum fuel consumption: 175 g/hph at 33,4 hp and 1380 rev/min
No load maximum engine speed: 2590 rev/min
Torque at maximum power: 13,5 kpm
Maximum torque: 17,3 kpm at 1380 rev/min of the engine
Mean atmosheric conditions: temperature: 18°C
pressure: 747 mm Hg
relative humidity: 65 %
Maximum temperature: coolant: 80°C
engine oil: 76°C
fuel: 36°C

BUNDESVERSUCHS-U. PRÜFUNGSANST. FÜR LANDW. MASCHINEN U. GERÄTE WIESELBURG A.D. ERLAUF PROTOKOLL NR. 041/68

Motorleistung
Engine - test

Lindner-Diesel-Traktor
Typ BF 450
Mot. Typ Perkins D.3152

● Dauerleistung (Mittelwert) sustained power (average)

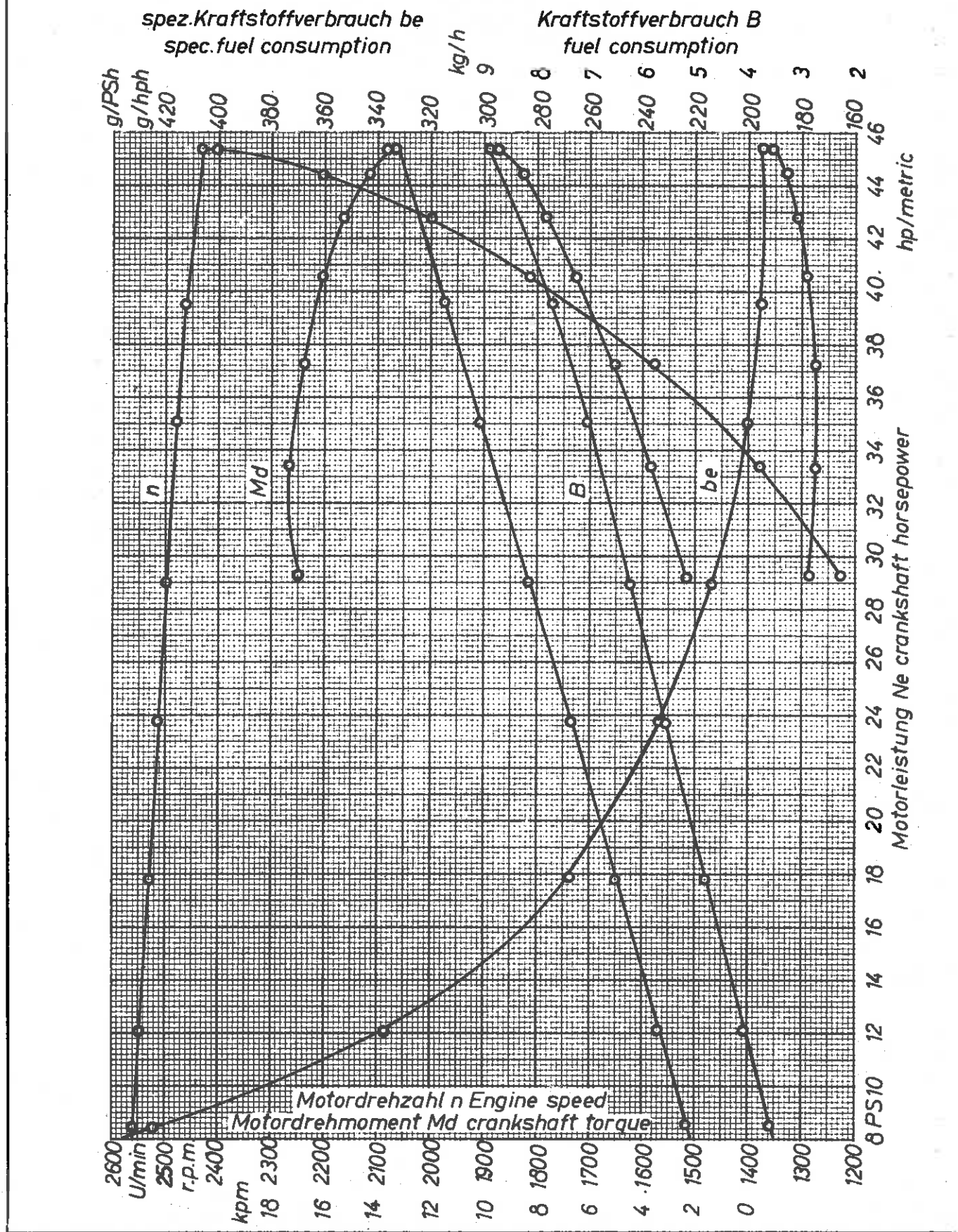


Motor Nr.: 15 2U / 6666 D	Barometerstand: 747 mm Hg	Kühlwassertemp: 80°C	Versuchstag: 31. 1. 68	Vers.-Leitung:
Schlepper Nr.: 1726	Lufttemperatur: 18° C	Öltemperatur: 65°C	Versuchs Nr.: 87/M113	A. Reitlun
Kraftstoff: 0,840 / 15° C	Motoröl: Mobil SAE 30 HD	Kraftstofftemp.: 32° C	Kurvenblatt: 7	

BUNDESVERSUCHS-U. PRÜFUNGSANST. FÜR LANDW. MASCHINEN U. GERÄTE WIESELBURG A.D. ERLAUF
PROTOKOLL NR. 041/68

Motorleistung
Engine - test

Lindner-Diesel-Traktor
Typ BF 450
Mot. Typ Perkins D.3152



Motor Nr.: 152U/6666D	Barometerstand: 747 mm Hg	Kühlwassertemp: 80° C	Versuchstag: 31.1.68	Vers.-Leitung:
Schlepper Nr.: 1726	Lufttemperatur: 18° C	Öltemperatur: 65° C	Versuchs Nr.: 87/M113	A. Reitlun
Kraftstoff: 0,840/15° C	Motoröl: Mobil SAE 30HD	Kraftstofftemp: 32° C	Kurvenblatt: 8	

Notes: Repairs and adjustments during tests were not performed.

Head of department:
Dipl.-Ing.Zehetner

Officer in charge:
A. Reither

The director:
Dipl.-Ing.Dr.Scheruga
Hofrat