GEPRÜFT

PROT. Nr.

O.E.C.D. Report No.: 254

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

STEYR - DIESEL - TRACTOR » PLUS 50 «

Manufactured by: Steyr - Daimler - Puch AG.,
Steyr, Oberösterreich,
Austria



Test No.: 032/68

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: 19. 12. 1968 Serial No.: 254

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.

TABLE OF CONTENTS

	Page
Specification of tractor	4
Fuel and lubricants used in tests	8
COMPULSORY TESTS	
Power take-off performance	9
Drawbar performance	12
Turning space and turning circle	17
Location of centre of gravity	17
Brake tests	17
Measurement of ambient noise emitted by the tractor	18
Noise measurement at the Driver's ear	18
Power-lift and hydraulic pump performance	18
OPTIONAL TEST	
Engine tests	20
Performance at the belt pulley Shaft	23

Tractor manufacturer:	STEYR-DAIMLER-PUCH AG., A-4400 Steyr
Submitted for test by:	Manufacturer
Selected by:	Bundesversuchs- und Prüfungsanstalt für landwirtschaftliche Maschinen und Geräte, Wieselburg
Place of running-in:	Steyr-Daimler-Puch AG., Steyr
Duration of running-in:	25 hours

SPECIFICATION OF TRACTOR

Tractor

Make:	Steyr-Daimler-Puch AG., Steyr
Model:	PLUS 50
Type:	Wheel tractor
Serial No.:	292-1778

Engine

Make:	Steyr-Daimler-Puch AG., Steyr
Model:	STEYR WD 407
Type:	Direct injection type Diesel, 4-stroke
Serial No.:	1020
Cylinders:	4 cylinders, vertical in line, bore/stroke: 98-100 mm, capacity: 3017 cm^3; compression ratio: 16,8 : 1; arrangement of valves: overhead; cylinder type: wet liners
Fuel system:	Type of fuel feed: by wing unit pump in the Bosch distributor injection pump; fuel filter: strainer in the tank, Bosch duble filter with water trap; capacity of fuel tank: appr. 83 l; injection pump: Bosch distributor BOSCH EP/VA4/90H1 200BR 144; manufacturer's production setting: injection timing 23° - 1° before TDC; injection nozzle: BOSCH DLL 150 S 396 or F & M LMK 150/21; manufacturer's production setting: injection pressure 220 + 5 kp/cm^2 quantity of fuel feed: 36 + 1 mm^3/stroke at 2400 rev/min
Governor:	Make: BOSCH Type: hydraulic governor Range of speed: 600 to 2600 rev/min Rated speeds for p.t.o.-work (540 rev/min) 2220 rev/min for field-work..... 2400 rev/min for transportation-work..... 2400 rev/min for belt-work (1020 rev/min) 2360 rev/min

Air cleaner:	Make: IFE 808 - 6000 E Type: oil bath air cleaner; oil capacity: appr. 1 l
Lubrication system:	Forced feed from gear type pump; type of filter: oil filter in full flow, throw away filter; oil capacity: appr. 7 l; oil change period: 200 hours
Cooling system:	Type: water circulation by water pump, sealed cooling system with frost protected STEYR longtime filling (-35°C), control-eye for coolants control; coolant capacity: appr. 12,4 l; means of temperature control: indicate instrument
Starting system:	BOSCH type JD (R) 12 C 3 PS starter motor; aids for cold starting: glow filament in the intake manifold

Electrical system:

Voltage:	12
Generator:	BOSCH type G(R) 14V 16A 21; direct current
Battery:	ELBAK acid battery, 2 batteries of 6 Volt each in series connection, 112 Ah, DIN 72311

Transmission:

Clutch:	Make: FICHTEL & SACHS; type and size: dual plate double clutch for engine p.t.o. and travelling gear Do 250/250, operated by foot pedal
Gearbox:	Make: STEYR-DAIMLER-PUCH AG., Steyr, Type: group gearbox, 2 x 4 speed forward, 2 x 4 reverse
Rear axle and final drive:	Make: STEYR-DAIMLER-PUCH AG., Steyr Type: central axle, bevel gear drive with Gleason-spiral cut, acting by planetary gear on rear wheels; differential lock: lockable bevel differential gear in the rear axle
Oil capacity:	Gearbox and rear axle: 33,5 l; planetary gear: 1,5 l SAE 90 for each half-axle; change period: 1200 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
On the field	1.L.	356,20	1,61 km/h
	2.L.	202,39	2,83
	3.L.	123,24	4,65
	4.L.	72,15	7,84
On roads	1.S.	101,94	5,63
	2.S.	57,92	9,90
	3.S.	35,27	16,26
	4.S.	20,93	27,40
Reverse	1.LR.	421,18	1,36
	2.LR.	239,31	2,40
	3.LR.	145,72	3,94
	4.LR.	86,49	6,63
Reverse	1.SR.	120,54	4,76
	2.SR.	68,49	8,38
	3.SR.	41,70	13,75
	4.SR.	24,75	23,17

Power take-off:

Location: At rear in vertical centre plane of tractor, 524 mm above ground

Dimensions: 29 x 34,9 x 8,7, 6 splines A DIN 9611

Speed: 1st speed 583 rev/min at rated engine speed 2400 rev/min, 2nd speed 1047 rev/min at rated engine speed 2400 rev/min, engine speed 2220 rev/min at standard p.t.o. speed 540 rev/min

Direction of rotation: Right viewed from driving end

Ground speed: Distance travelled for 1 revolution of p.t.o. 0,0765 m

Number of p.t.o. revolutions for one revolution of driving wheel 52,09; direction of rotation right viewed facing driving end with tractor in forward gear

Details of other p.t.o.: Frontal p.t.o. 1047 rev/min at engine speed 2400 rev/min, for use to drive the mowing machine 925 rev/min

Belt pulley:

Location: At rear of tractor, right beside the mean p.t.o.

Dimensions: 250 mm dia, 160 mm width

Speed: 1st speed: linear 720 m/min and 916 rev/min at rated engine speed 2400 rev/min, 2nd speed: linear 1292 m/min and 1646 rev/min at rated engine speed 2400 rev/min

Engine speed: 1st speed: 2360 rev/min at standard linear speed 708 m/min, 2nd speed: 2361 rev/min at standard linear speed 1272 m/min

Direction of rotation:	Right viewed from shaft end
Power lift:	Make: STEYR-DAIMLER-PUCH AG., Steyr, control gear BOSCH HY/S10H2/175/4; type: oil hydraulic; oil capacity: 14 l SHELL Tellus 23 SAE 10W; vertical lift movement: max. 670 mm to 910 mm above ground
Pull attachments:	
Drawbar:	Fixed on three point implement linkage; height above ground: max. 910 mm, min. 240 mm; method of changing position: adjustable by power lift; distance from rear axle: 825 mm at lowest position; position relative to p.t.o.: 587 mm; perforation: 5 holes with 150 mm distance at times
Trailer hitch: (rotating)	Height above ground: 395, 423, 708 and 736 mm changing trailer hitch case; distance from rear axle: 417 mm; position relative to p.t.o.: 120 mm
Towing hitch:	Height above ground: 485 mm; distance from front axle: 430 mm
Steering:	Make: Zahnradfabrik Friedrichshafen (ZF); system: Gemmersteering, model: Gd 7340; type: worm roller steering; method of operation: mechanic, by hand wheel
Brakes:	Make: STEYR-DAIMLER-PUCH AG., Steyr; 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 brake
Wheels:	
Steering wheels:	Two at front; type of tyres: tractor front wheel tyres; size: 6,00-16 AS Front; ply rating: 6; maximum permissible weight on each tyre: 560 kp at 2,5 kp/cm^2 pressure; for operation with front loader to 6 km/h up to 100 % overloading; track width: 1350 mm; method of changing: at changed wheels 1510 mm (as equipment by request track width with changeable track 1350, 1450, 1550, 1650 and 1750 mm)
Driving wheels:	Two at rear; type of tyres: tractor driving wheel tyres; size: 12,4/11-32 AS; ply rating: 6; rim size: W10 x 32; maximum permissible weight on each tyre: 1280 kp at 1,5 kp/cm^2 pressure; track widht: 1350 mm; method of changing: at changed wheels 1500 mm (as equipment by request track width with changeable track 1350, 1400, 1450, 1500, 1600 and 1700 mm)
Wheel base:	2125 mm

Tractor and ballast weights:
(without driver but with tank full)

Weight without ballast:	Front:	805 kp
	Rear:	1360 kp
	Total:	2165 kp
Ballast:	Front 8 weights 125 kp	
	Rear 4 weights per wheel:	206 kp
	water per wheel:	142 kp
Weight with full ballast:	Front:	930 kp
	Rear:	2056 kp
	Total:	2986 kp

Seat: Tilting suspended seat with spring properties tested by BVPA Wieselburg; make: FRITZMEIER or GRAMMER; suspension: torsion bars at FRITZMEIER-seat, helical springs at GRAMMER-seat; damping: hydraulically; adjustment: the spring of the seat is adjustable by a screw; axial adjustment: 80 mm

Number of grease points: (Whole tractor): 17

Overall dimensions:

Overall length:	3510 mm, with front ballast weights 3620 m
Overall width:	1678 mm, at changed wheels 1800 mm with ballast weights 1798 mm
Overall height:	1534 mm

Lighting:

	Height above ground of centre cm	Diameter cm	Distance from outside edge of tractor to centre cm
Head lights	79	14 x 7,5	70
Side lights	128,5	8	8
Rear lights	132	8	8
Reflectors	122	10,2 x 5,8	8

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: SHELL Rotella S Oil SAE 30 HD Transmission oil: SHELL high pressure transmission oil light HDL 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: SHELL Rotella S Oil SAE 30 HD Transmission oil: SHELL high pressure transmission oil light HDL SAE 90

COMPULSORY TESTS

POWER TAKE-OFF PERFORMANCE

Date and location of tests: 30th April Wieselburg a.d. Erlauf
Type of dynamometer: Siemens-Schuckert pendulum generator G 273/15

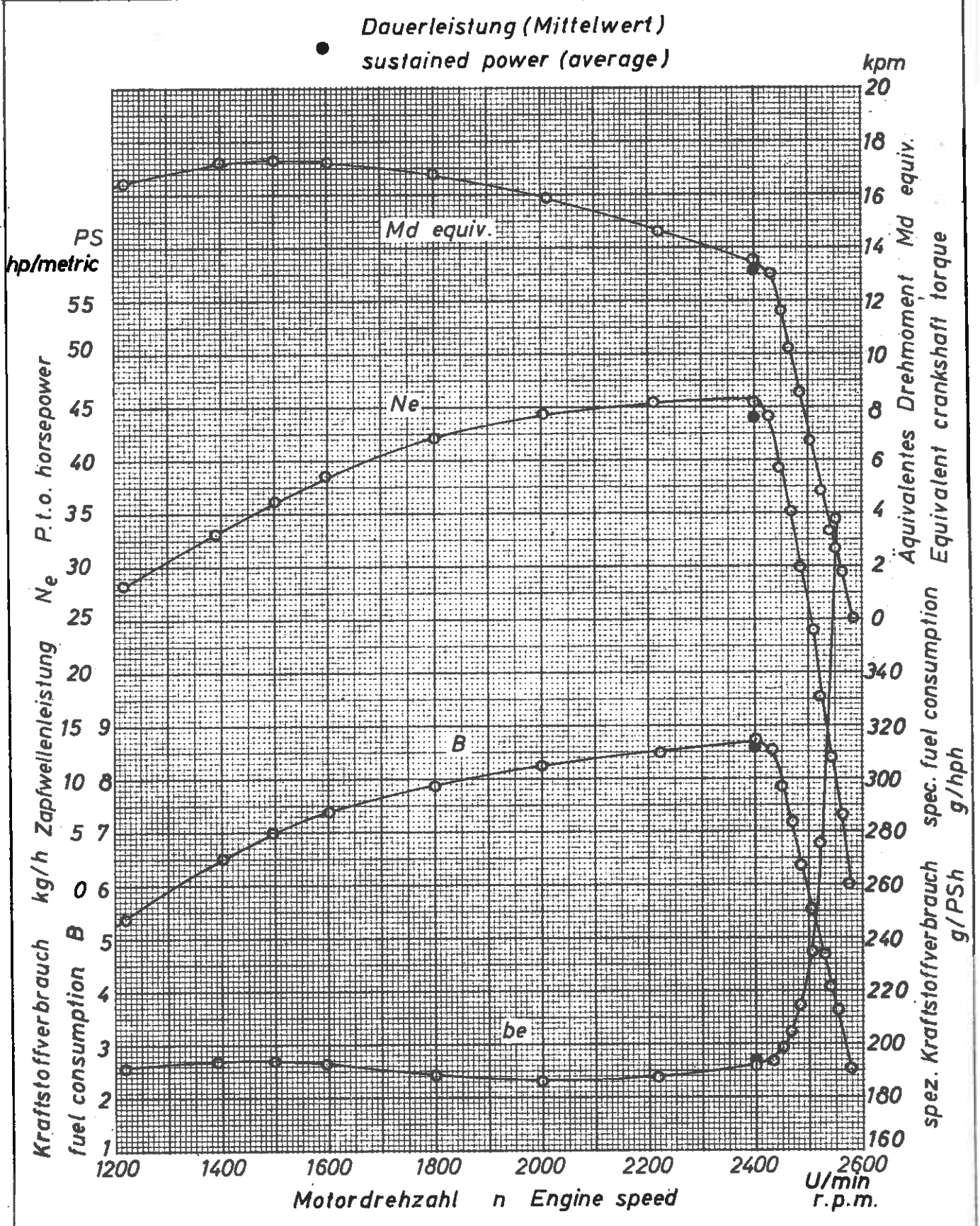
Horsepower (metric) hp	Speed		Fuel consumption		
	engine rev/min	p.t.o. rev/min	total l/h	specific g/hph	specific hph/l
Maximum power - 2 hours test					
44,05	2400	583	10,20	194	4,32
At standard p.t.o. speed (540 rev/min)					
45,15	2220	540	10,12	188	4,46
At standard belt speed					
45,40	2360	573	10,32	191	4,40
At the speed recommended by the manufacturer for drawbar work					
45,50	2400	583	10,40	192	4,38
Fuel consumption at part loads 85% of torque at maximum power					
39,50	2450	595	9,31	198	4,24
Unloaded					
0	2580	627	3,03	-	-
50% of torque at maximum power					
23,75	2505	609	6,64	235	3,58
Maximum power					
45,50	2400	583	10,40	192	4,38
25% of torque at maximum power					
12,04	2540	617	4,87	340	2,47
75% of torque at maximum power					
35,05	2465	599	8,51	204	4,12

No load maximum engine speed: 2580 rev/min
Equivalent torque at maximum power: 13,58 kpm
Maximum torque: 17,26 kpm at 1498 rev/min of the engine
Mean atmospheric conditions: Temperature: 20°C (aspiration temp. 30°C
Pressure: 734 mm Hg
Relative humidity: 55 %
Maximum temperature: Coolant: 87°C
Engine oil: 92°C
Fuel: 64°C

BUNDESVERSUCHS-U. PRÜFUNGSANST. FÜR LANDW. MASCHINEN U. GERÄTE WIESELBURG A.D. ERLAUF PROTOKOLL NR. 032/68

Zapfwellenleistung
P.t.o.-test

Dieseltraktor
Steyr 50
Mot. Typ Steyr WD 407

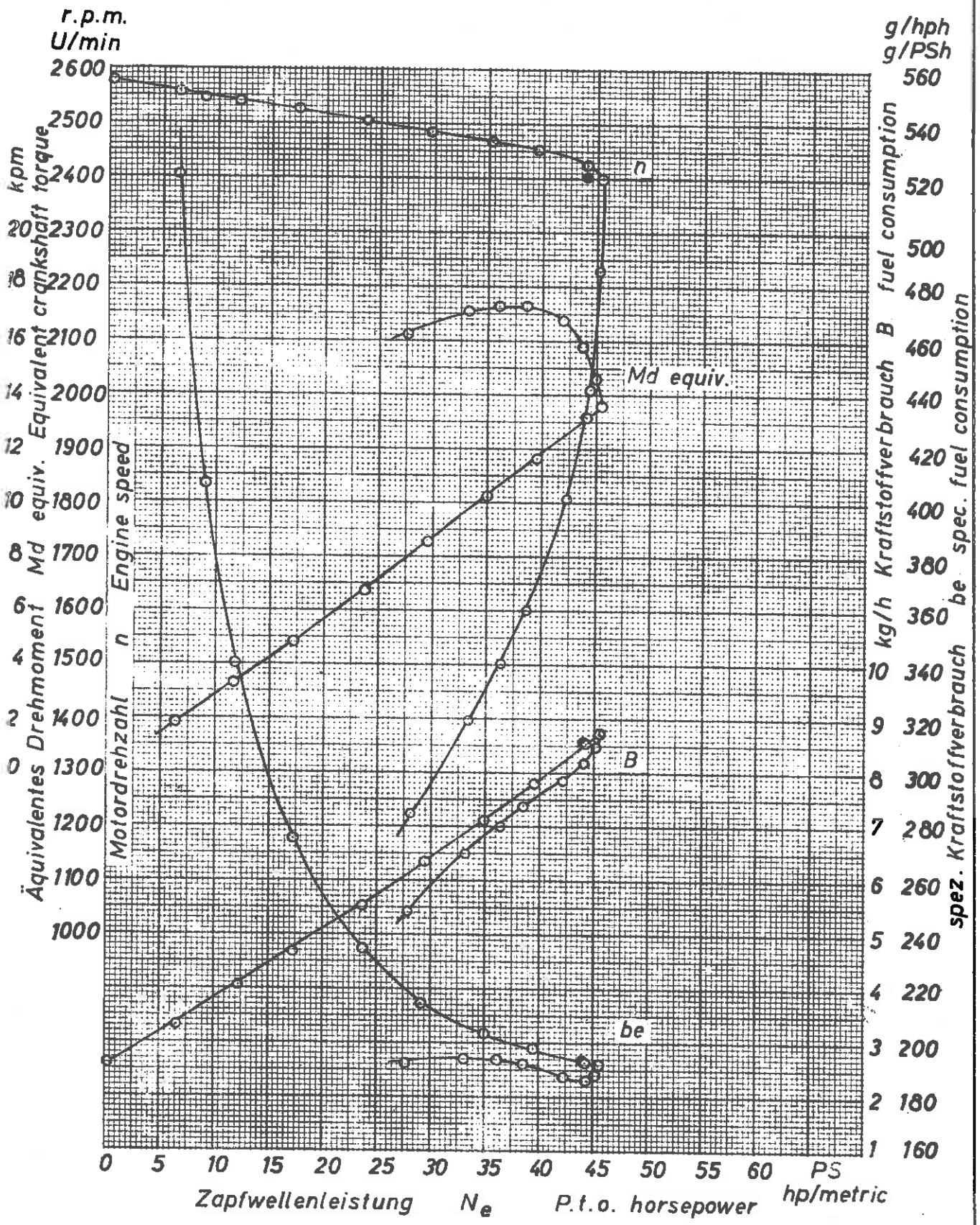


Motor Nr.: 1020	Barometerstand 734 mmHg	Kühlwassertemp: 81°C	Versuchstag: 30.4.68	Vers.-Leitung:
Schlepper Nr.: 292-1778	Lufttemperatur: 20°C	Öltemperatur: 85°C	Versuchs Nr.: 85/Za 78	A. Reitlun
Kraftstoff: 0,840/15°C	Motoröl: Shell Rotella S	Kraftstofftemp.: 58°C	Kurvenblatt: 1	

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Kraftstoff: 0.840/15 °C	Motoröl: Shell Rotella S	Kraftstofftemp.: 58 °C	Kurvenblatt: 2	

DRAWBAR PERFORMANCE

Date of tests: 25th June to 1st July 1968
Type of track: concrete
Height of drawbar above ground: 730 mm

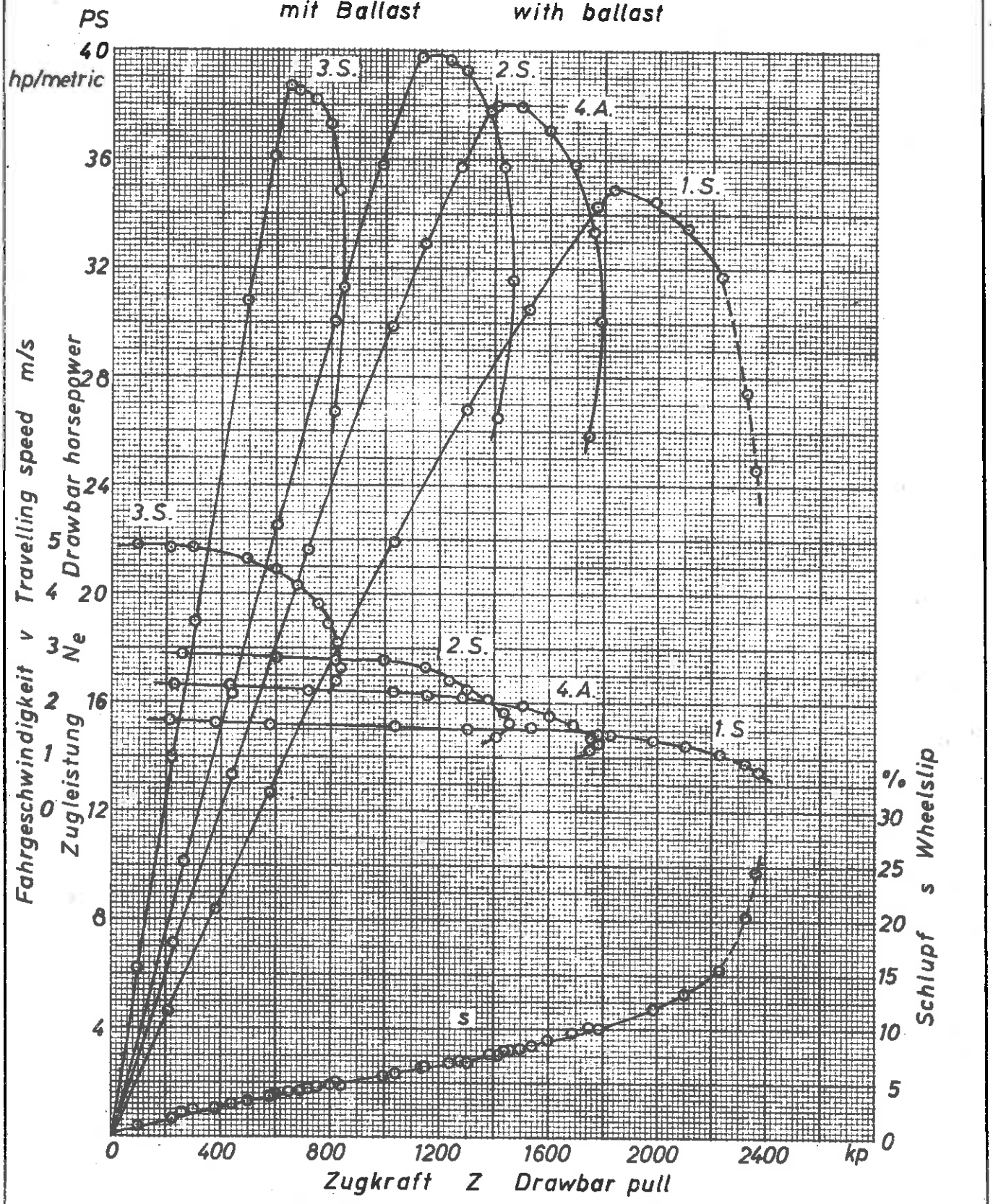
Gear No.	Horse-power (metric) hp	Draw-bar pull kp	Engine speed rev/min	Slip of wheels %	Specific work hph/l	Specific fuel consumpt. g/hph	Temperatures Fuel °C	Coolant °C	Engine oil °C	Atmospheric conditions Tempera-ture °C	Relative humidity %	Press. mm/hg
MAXIMUM POWER (ballasted)												
1.S.	34,85	1830	2400	10,7	3,29	255	54	82	84	27	42	751
4.L.	38,05	1390	2390	7,6	3,60	233	51	82	83	26	46	751
2.S.	39,80	1140	2395	6,3	3,78	222	51	81	80	25	50	751
3.S.	38,80	655	2395	3,9	3,72	226	49	80	78	23	58	751
FIVE HOUR TEST at 75% of pull at maximum power												
1.S.	28,0	1370	2500	8,0	3,11	270	60	85	84	29	38	750
FIVE HOUR TEST at pull corresponding to 15% wheel slip												
1.S.	32,30	2200	1930	15,0	3,23	260	65	87	89	30	35	749
MAXIMUM POWER (unballasted)												
4.L.	36,75	1380	2400	11,3	3,48	241	46	80	80	18	80	749
2.S.	39,0	1140	2395	9,1	3,71	226	46	80	78	20	60	749
3.S.	38,40	655	2400	5,6	3,65	230	42	79	76	21	60	749

Total oil consumption during ten hours duration of test = 332 g

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Zugprüfung
Drawbar-test

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Steyr 50
Mot. Typ Steyr WD 407

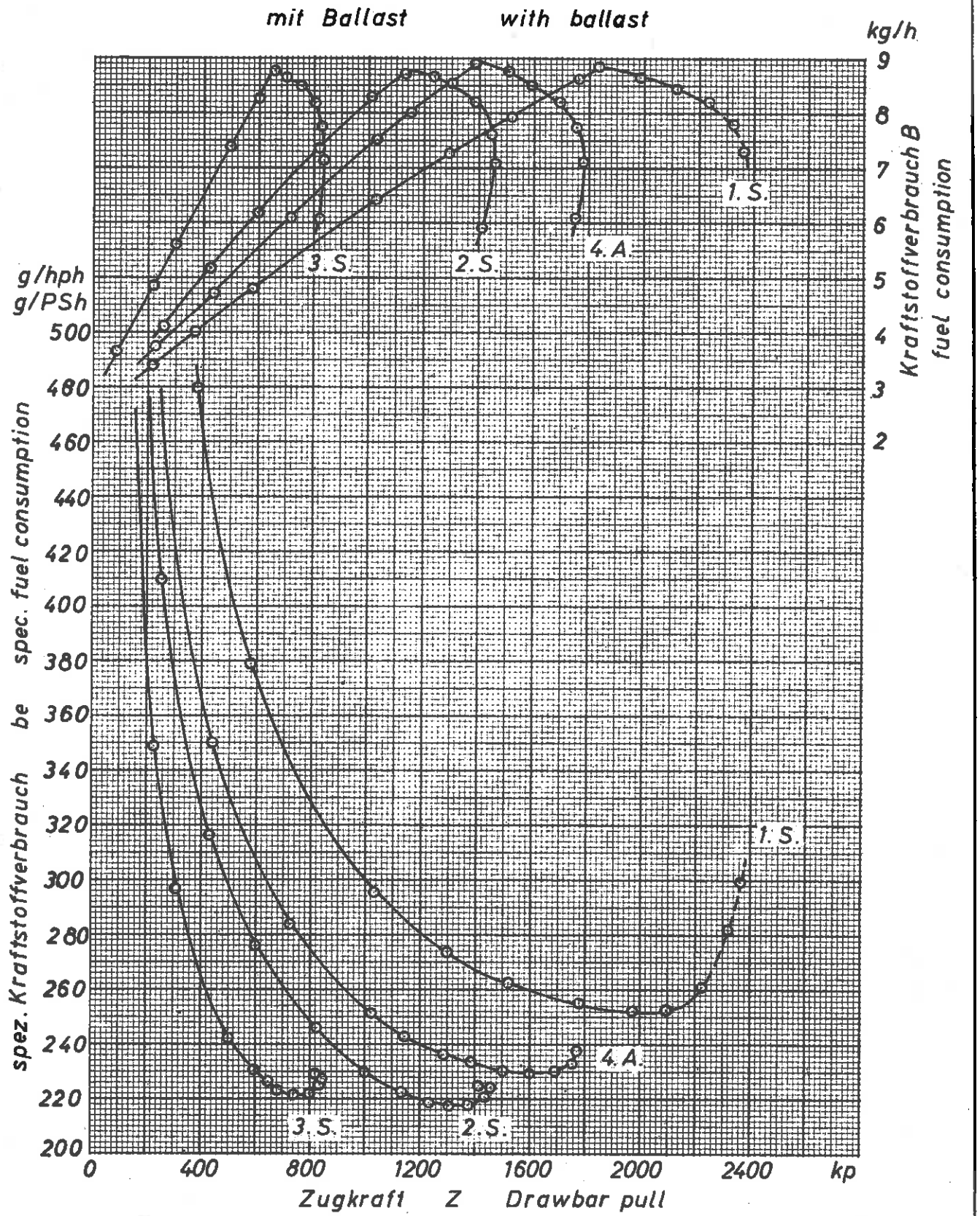


Motor Nr.: 1020	Barometerstand: 751mm Hg	Kühlwassertemp 80-82	Versuchstag: 1. 7. 68	Vers.-Leitung:
Schlepper Nr.: 292-1778	Lufttemperatur: 23 -27 °C	Öltemperatur: 78 -84°	Versuchs Nr: 85/Zu 376-379	
Kraftstoff: 0.840/15°C	Motoröl Shell Rotella S	Kraftstofftemp.: 49-54	Kurvenblatt: 3	A. Reitlinger

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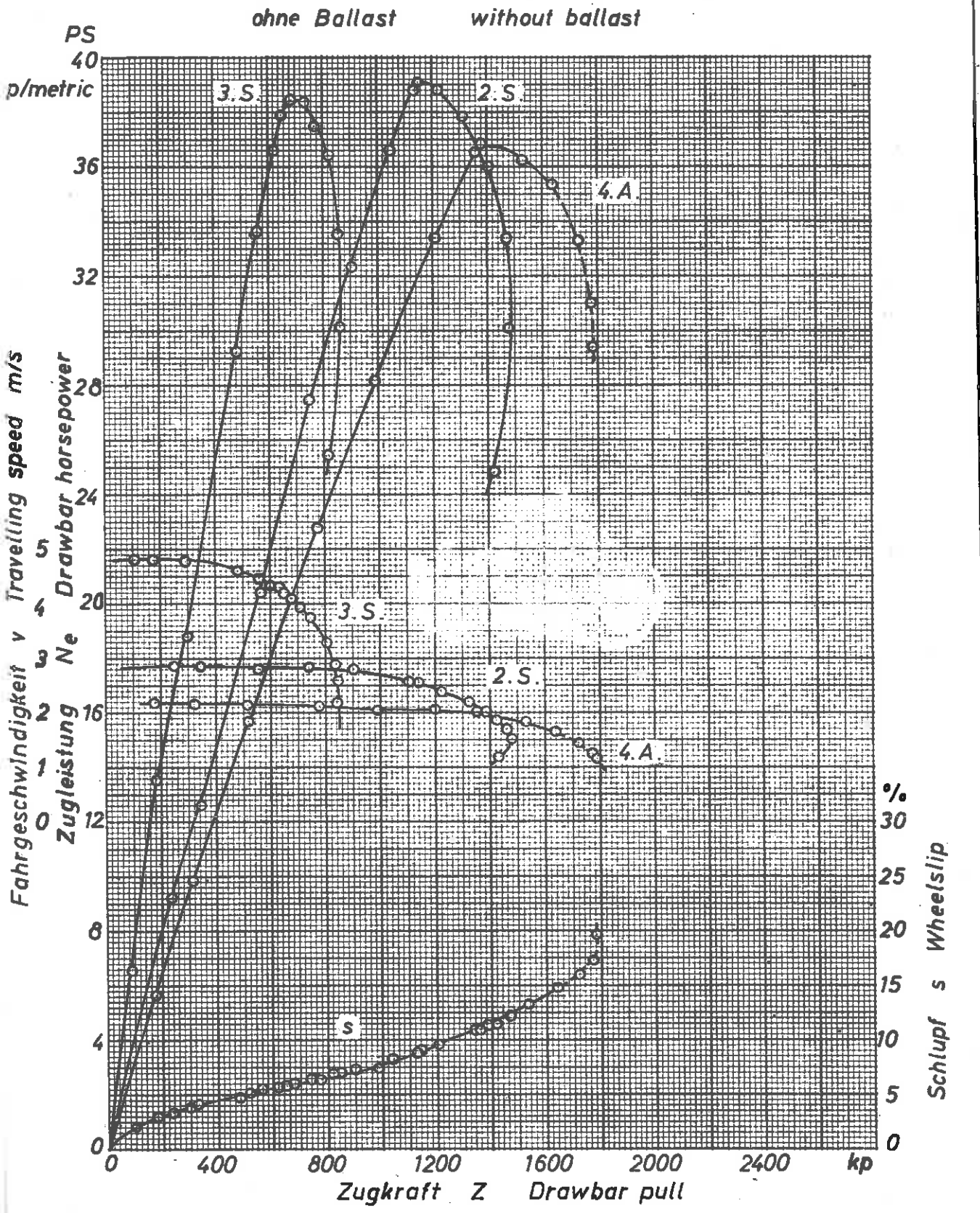


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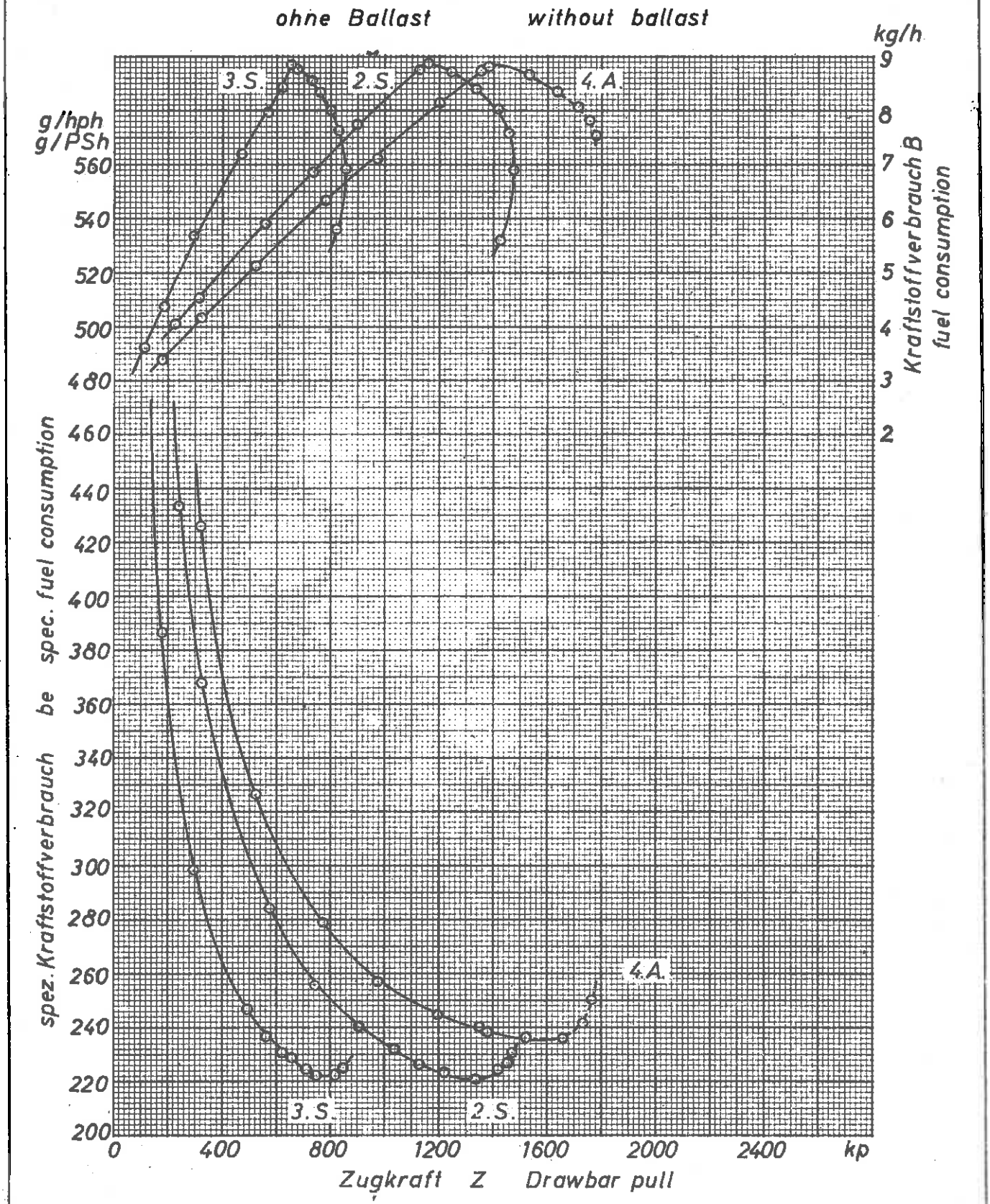


Motor Nr.: 1020	Barometerstand: 749 mmHg	Kühlwassertemp: 79-80	Versuchstag: 25. 6. 68	Vers.-Leitung:
Schlepper Nr.: 292-1778	Lufttemperatur: 18 -21 °C	Öltemperatur: 76 - 80°	Versuchs Nr.: 85 / Zu	380-382
Kraftstoff: 0.840/15 °C	Motoröl: Shell Rotella S	Kraftstofftemp: 42-46	Kurvenblatt: 5	A. Peitler

BUNDESVERSUCHS-U. PRÜFUNGSANST.
FÜR LANDW. MASCHINEN U. GERÄTE
WIESELBURG A.D. ERLAUF
PROTOKOLL NR. 032/68

Zugprüfung
Drawbar-test

Dieseltraktor
Steyr 50
Mot. Typ Steyr WD 407



Motor Nr.: 1020	Barometerstand: 749 mm Hg	Kühlwassertemp: 79-89	Versuchstag: 25. 6. 68	Vers.-Leitung:
Schlepper Nr.: 292-1778	Lufttemperatur: 18-21 °C	Öltemperatur: 76-80°	Versuchs Nr.: 85/Zu 380-382	
Kraftstoff: 0.840/15°C	Motoröl: Shell Rotella S	Kraftstofftemp.: 42-46	Kurvenblatt: 6	A. Reitlinger

TURNING SPACE AND TURNING CIRCLE

Wheel equipment front: 6,00-16 AS Front, 6 ply, without ballast
rear: 12,4/11-32 AS, 6 ply, without ballast

Track of wheels front: 1350 mm
rear: 1350 mm

	With brakes		Without brakes	
	right-hand	left-hand	right-hand	left-hand
Radius of turning space	3,43 m	3,36 m	3,91 m	3,76 m
Radius of turning circle	3,32 m	3,25 m	3,80 m	3,65 m

LOCATION OF CENTRE OF GRAVITY

Height above ground 722 mm

Distance forward from the vertical plane containing the axis of rear wheels 775 mm

Distance from the median plane parallel to the longitudinal axis of the tractor bisecting the track 0 mm

BRAKE TESTS

Date of tests: 25th, 26th and 28th June 1968
Type of track: concrete
Instrument: Recorder for deceleration and force 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	3,50	3,50
Stopping distance m	7,45	8,10
Force on pedal kp	29	39

Brake fade characteristics (hot test)

Tractor without ballast:
Deceleration: hot/cold 134 %
Stopping distance: cold/hot 99 %
Force on pedal: cold/hot 93 %

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 presents 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 tests: 26th 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.
Travelling speed: 20,5 km/h
Sound level: 85 dbA

NOISE MEASUREMENT AT THE DRIVER'S EAR

Date of test: 4th July 1968
Type of track: concrete
Type of sound level meter: Precisions Sound Level Meter Type 2203, Brüel & Kjoer/Copenhagen

Tractor without cab

Results of tests:

Gear	Travelling speed km/h	dbA	sones
1.S.	5,44	94	
4.L.	7,67	95	73
2.S.	9,72	93	
3.S.	16,30	94	

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

POWER LIFT AND HYDRAULIC PUMP PERFORMANCE

Date and location of test: 27th June 1968, Wieselburg
Hydraulic fluid: SHELL Tellus Oil 23 SAE 10 W

	Vertical movement mm	Maximum force exerted through full range kp	pressure kp/cm^2
Linkage giving maximum mechanical advantage: only one position possible	670	1920	170
At lower hitch points (height above ground in down position) 240 mm on the frame	670	1150	170

Type of linkage lock for transport: mechanically by two retaining clutches, which act on the gudgeons on the both lifting levers

Opening pressure of the cylinder over pressure relief valve: 175 kp/cm^2

Pump characteristics:

Opening pressure of the relief valve	175 kp/cm^2
Sustained pressure by the open relief valve	175 kp/cm^2
Pump delivery rate at minimum pressure	32,8 l/min
Pump delivery rate	30,2 l/min
Delivery pressure	170 kp/cm^2
Power (hydraulically)	11,4 hp (metric)

Note: Only one gear position possible, oil temperature 65°C
Relief of front axle: with frame about 1196 kp
on the drawbar about 2050 kp

OPTIONAL TESTS

ENGINE TEST

Date and location of tests: 21.3.1968 Wieselburg a.d. Erlauf
Type of dynamometer: Siemens-Schuckert pendulum generator G 273/15

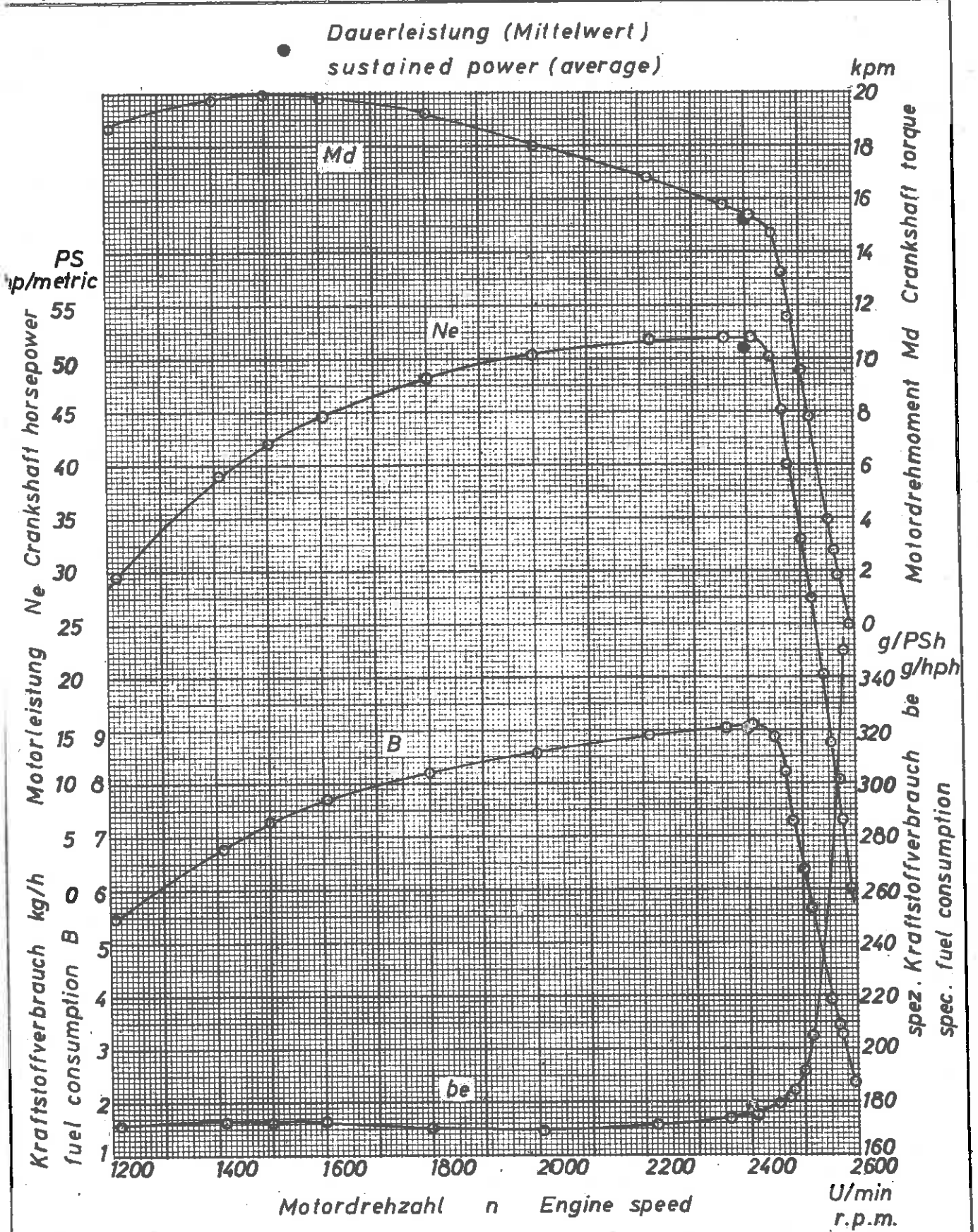
Horsepower (metric) hp	Speed		Fuel consumption		
	engine rev/min	p.t.o. rev/min	total l/h	specific g/hph	specific hph/l
Maximum power - 2 hours test					
50,90	2400	583	10,70	178	4,76
At standard p.t.o. speed (540 rev/min)					
51,80	2220	540	10,60	171	4,89
At standard belt speed					
52,0	2360	573	10,77	174	4,83
At the speed recommended by the manufacturer for drawbar work					
52,0	2410	585	10,85	175	4,79
Fuel consumption at part loads 85% of torque at maximum power					
45,25	2465	599	9,70	180	4,66
Unloaded					
0	2590	629	2,77	-	-
50% of torque at maximum power					
27,25	2515	611	6,62	204	4,12
Maximum power					
52,0	2410	585	10,85	175	4,79
25% of torque at maximum power					
13,75	2550	620	4,65	284	2,96
75% of torque at maximum power					
40,0	2480	603	8,67	182	4,61

Optimum fuel consumption: 169 g/hph at 50,4 hp and 2005 rev/min
No load maximum engine speed: 2590 rev/min
Torque at maximum power: 15,45 kpm
Maximum torque: 20,0 kpm at 1500 rev/min of the engine
Mean atmospheric conditions: Temperature: 15°C (aspiration temp.15°C
Pressure: 739 mm Hg
Relative humidity: 60 %
Maximum temperature: Coolant: 80°C
Engine oil: 93°C
Fuel: 46°C

BUNDESVERSUCHS-U. PRÜFUNGSANST. FÜR LANDW. MASCHINEN U. GERÄTE WIESELBURG A.D. ERLAUF PROTOKOLL NR. 032/68

Motorleistung
Engine-test

Dieseltraktor
Steyr 50
Mot. Typ Steyr WD 407

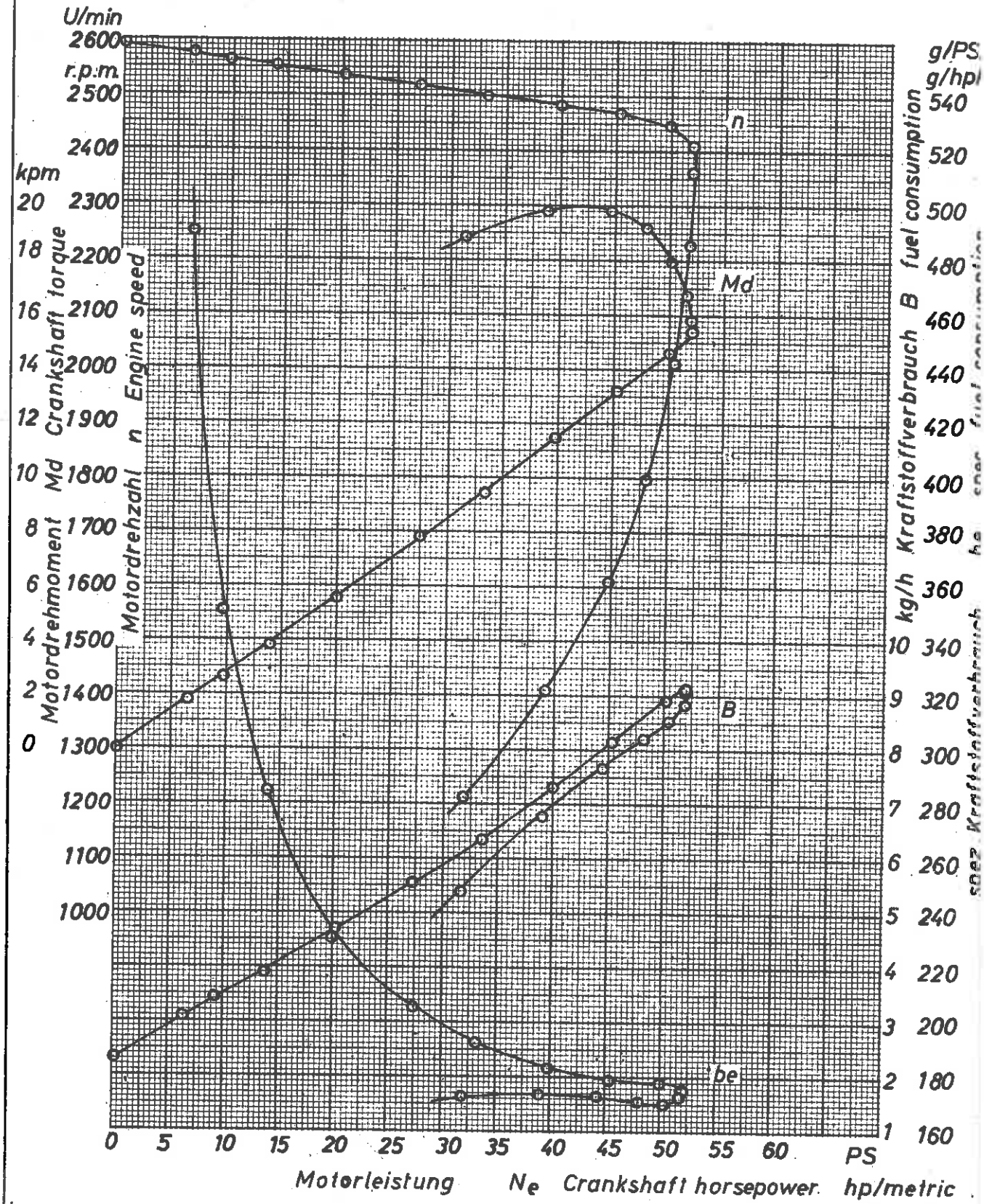


Motor Nr.: 1020	Barometerstand: 739 mmHg	Kühlwassertemp: 80 °C	Versuchstag: 21.3.68	Vers.-Leitung:
Schlepper Nr.: 292-1778	Lufttemperatur: 15 °C	Öltemperatur: 89 °C	Versuchs Nr.: 85/M 109	A. Reitter
Kraftstoff: 0.840/15 °C	Motoröl: Shell Rotella S	Kraftstofftemp.: 42 °C	Kurvenblatt: 7	

BUNDESVERSUCHS-U. PRÜFUNGSANST. FÜR LANDW. MASCHINEN U. GERÄTE WIESELBURG A.D. ERLAUF PROTOKOLL NR. 032/68

Motorleistung Engine-test

Dieseltraktor Steyr 50 Mot. Typ Steyr WD 40



Motor Nr.: 1020	Barometerstand: 739 mm Hg	Kühlwassertemp: 80 °C	Versuchstag: 21. 3. 68	Vers.-Leitung:
Schlepper Nr.: 292-1778	Lufttemperatur: 15 °C	Öltemperatur: 89 °C	Versuchs Nr.: 85/M109	A. Reitlinger
Kraftstoff: 0.840/15°C	Motoröl: Shell Rotella S	Kraftstofftemp.: 42 °C	Kurvenblatt: 8	

OPTIONAL TESTS

PERFORMANCE AT THE BELT PULLEY SHAFT

Date and location of tests: 17.5.1968 **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					
42,0	2400	583/916	10,10	202	4,16
At standard p.t.o. speed (540 rev/min)					
43,20	2220	540/847	10,08	196	4,29
At standard belt speed					
43,50	2360	573/901	10,25	199	4,24
At the speed recommended by the manufacturer for drawbar work					
43,50	2400	583/916	10,40	201	4,18
Fuel consumption at part loads **85% of torque at maximum power**					
37,60	2440	593/931	9,26	207	4,06
Unloaded					
0	2585	628/986	3,19	-	-
50% of torque at maximum power					
22,60	2495	606/952	6,72	250	3,36
Maximum power					
43,50	2400	583/916	10,40	201	4,18
25% of torque at maximum power					
11,50	2540	617/969	5,06	370	2,27
75% of torque at maximum power					
33,45	2455	597/937	8,52	214	3,92

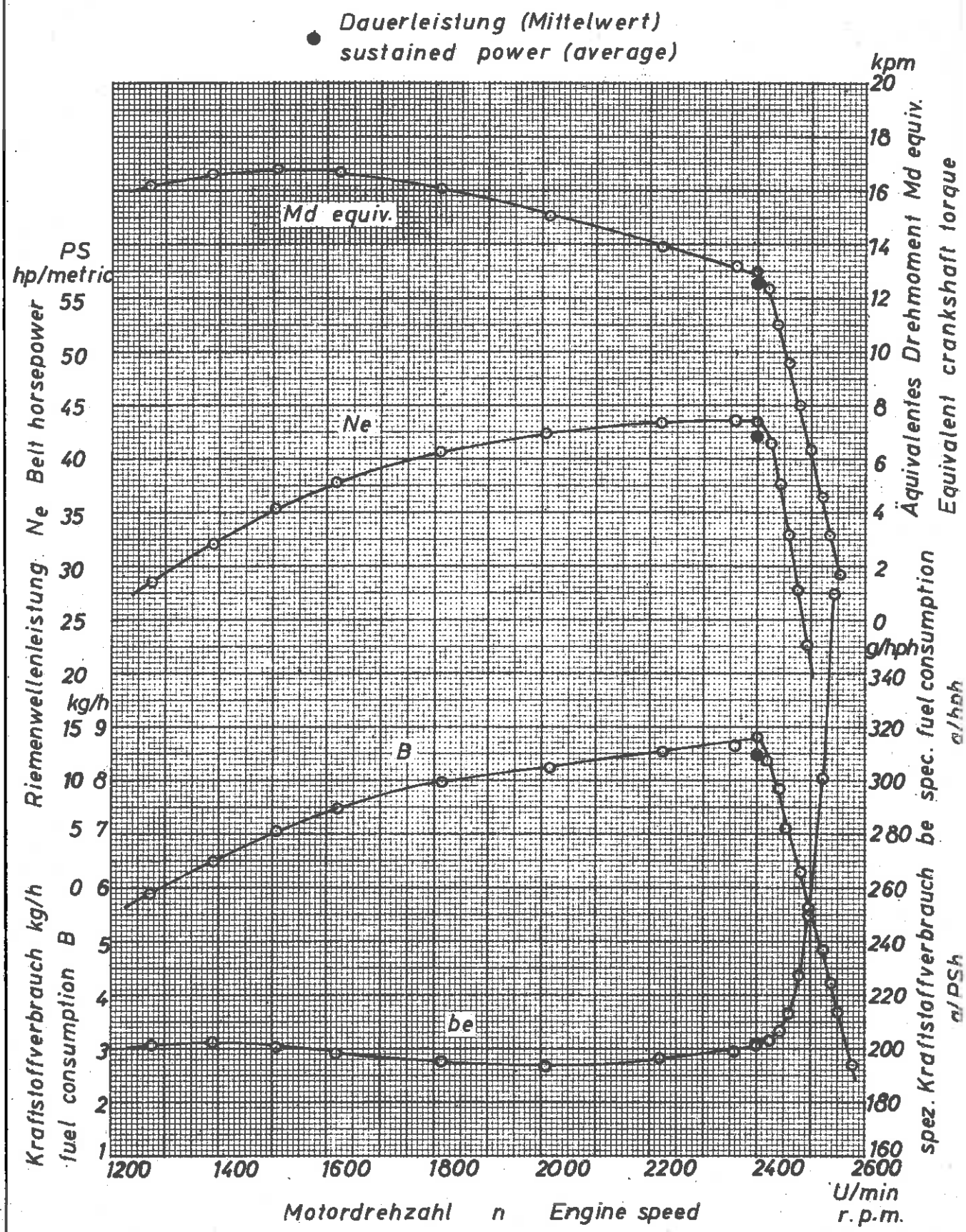
No load maximum engine speed: 2585 rev/min
Equivalent torque at maximum power: 12,98 kpm
Maximum torque: 16,65 kpm at 1505 rev/min of the engine
Mean atmospheric conditions: **Temperature:** 24°C (aspiration temp. 32°C
Pressure: 743 mm Hg
Relative humidity: 62 %

Maximum temperature:
Coolant: 86°C
Engine oil: 95°C
Fuel: 68°C

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Riemenleistung
Belt-test

Dieseltraktor
Steyr 50
Mot. Typ Steyr WD 407

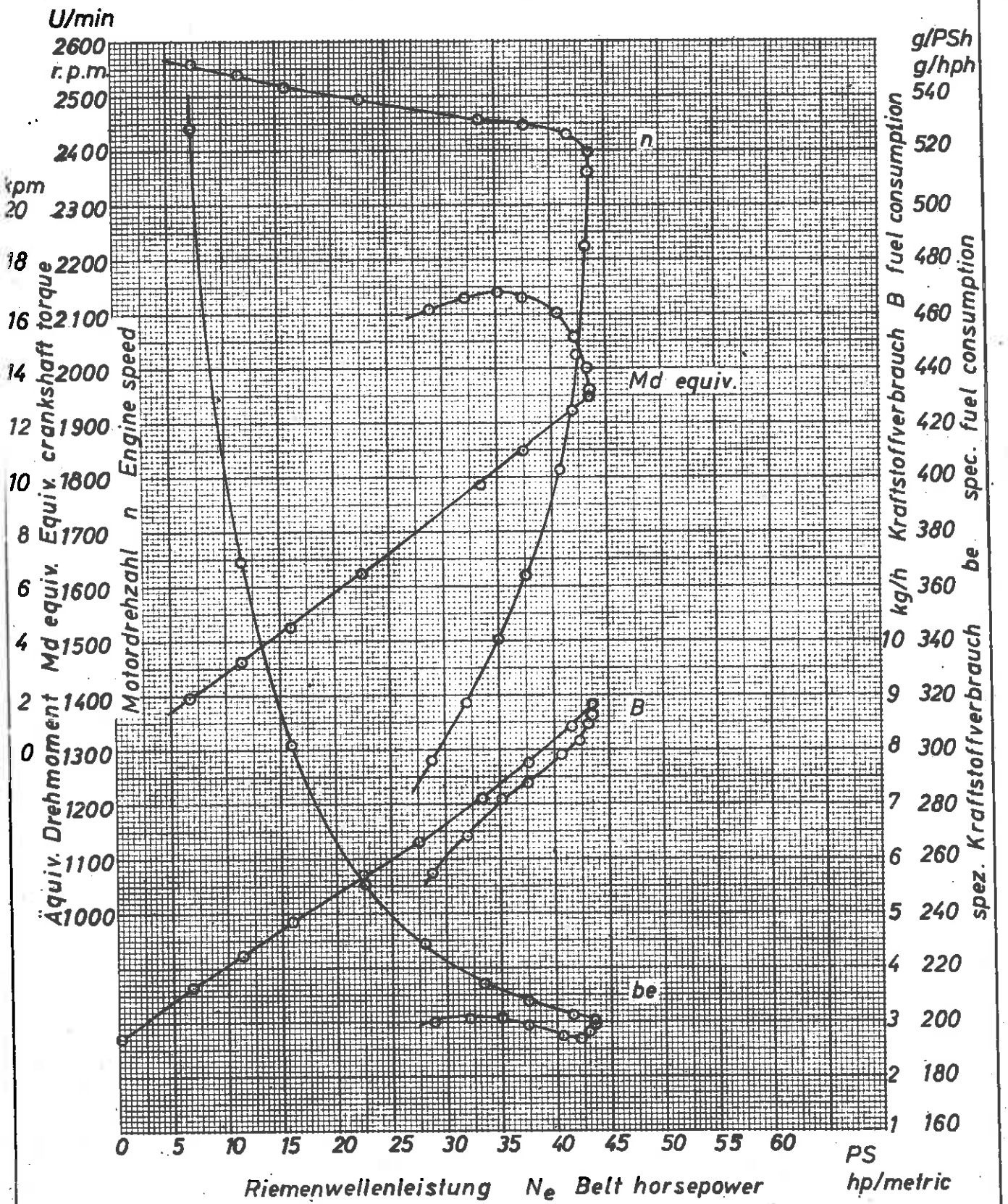


Motor Nr.: 1020	Barometerstand: 743 mm Hg	Kühlwassertemp: 81 °C	Versuchstag: 6.6.68	Vers.-Leitung:
Schlepper Nr.: 292-1778	Lufttemperatur: 24 °C	Öltemperatur: 84 °C	Versuchs Nr.: 85/R18	A. Ruther
Kraftstoff: 0.840/15 °C	Motoröl: Shell Rotella S	Kraftstofftemp.: 62 °C	Kurvenblatt: 9	

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Riemenleistung
Belt-test

Dieseltraktor
Steyr 50
Mot. Typ Steyr WD 407



Motor Nr.: 1020	Barometerstand: 743 mmHg	Kühlwassertemp: 81°C	Versuchstag: 6. 6. 68	Vers.-Leitung:
Schlepper Nr.: 292-1778	Lufttemperatur: 24 ° C	Öltemperatur: 84°C	Versuchs Nr.: 85/R18	A. Reitlun
Kraftstoff: 0.840/15 °C	Motoröl: Shell Rotella S	Kraftstofftemp: 62°C	Kurvenblatt: 10	

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