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VALTION MAATALOUSTEKNOLOGIAN TUTKIMUSLAITOS
STATE RESEARCH INSTITUTE OF ENGINEERING IN AGRICULTURE AND FORESTRY

TEST BULLETIN: O.E.C.D. No. 925

Report on test in accordance with O.E.C.D. Standard Code for the Official Testing of Agricultural Tractors



VOLVO BM VALMET 905-4

Manufactured by: Valmet Corp., Tractor Works, Jyväskylä, Finland

Date of approval: 15. 4. 1985

ISSN 0428-4372

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This bulletin is based on engineering tests in accordance with the O.E.C.D. Standard Code for the Official Testing of Agricultural Tractors. It does not contain an evaluation of the performance of the tractor on practical farm work.

Tractor manufacturers name and address:	Valmet Corp. Tractor Works Tourula Box 7, 44201 Suolahti Finland
Submitted for test by:	The manufacturer
Selected for test by:	The manufacturer with the agreement of the institute
Place of running in:	Valmet Corp., Tourula
Duration of running in:	30 h

I SPECIFICATION OF THE TRACTOR

TRACTOR:

- Make:	Volvo BM Valmet
- Model:	905-4
- Type:	Four wheel drive, unit construction
- Serial number:	502 537
- First serial No:	502 487

ENGINE:

- Make:	Valmet
- Model:	D 66 D 9
- Type:	4-stroke, direct injection, water cooled
- Serial No:	20 902

Cylinders:

- Number and disposition:	6, vertical, in line
- Bore:	108 mm
- Stroke:	120 mm
- Capacity:	6600 cm^3
- Compression ratio:	17:1
- Arrangement of valves:	Overhead
- Cylinder liners:	Wet, replaceable

Fuel system:

- Fuel feed system	Bosch FP/KS mechanical feed pump
- Make, type and model of fuel filters:	Lucas CAV fuel strainer and Bosch replaceable cartridge filter
- Tank capacity:	180 l
- Make, type and model of injection pump	Bosch PES 6A, in line, serial no 44374098
- Manufacturers production setting of injection pump	74,0 ± 1 cm^3/1000 stroke/1050 rpm
- Injection timing	24° before TDC
- Make, type and model of injectors:	Bosch DLLA 150 S 804, 4 holes
- Injection pressure	20 MPa

Governer:

- Make and Model:	Bosch RSV
- Type:	Mechanical
- Governed range of engine speed	650...2270 r/min
- Rated engine speed	2100 r/min

Air cleaner:

- Main cleaner:	
- Make:	Valmet
- Type:	Dry cleaner with safety element
- Oil capacity:	None
- Pre-cleaner:	
- Make:	Valmet
- Type:	Cyclon
- Type of maintenance indicator:	Under pressure switch
- Air intake position:	Under the bonnet

Lubrication system:

- Type of feed and pump:	Forced feed from gear pump
- Type of filter:	Full flow replaceable paper filter
- Filter change period:	200 h
- Total oil capacity including filter:	16 l
- Oil change period:	200 h

Cooling system:

- Type of coolant:	Anti-freeze
- Type of pump:	Centrifugal
- Fan diameter:	510 mm
- Number of fan blades:	6
- Type of temperature control:	Thermostat
- Coolant capacity:	24 l
- System pressure:	40 kPa

Starting system:

- Make and model:	Lucas CAV M 127 or Bosch JF
- Starter motor power rating:	3 kW
- Safety features:	Only operable when clutch pedal is pressed, double start lock
- Cold starting aid:	Thermostart Lucas CAV 357-8 and automatic excess fuel and automatic injection delay

Electrical system:

- Voltage:	12V
- Earth polarity:	Negative
- Make of generator:	Lucas A 133/65
- Type of generator:	Alternator
- Power of generator:	65 A at 2164 r/min

- Capacity of battery:	160 Ah at 20 h rating
- Number of batteries:	1

Exhaust system:

- Make:	Valmet
- Expansion chamber diameter,length:	ϕ 130 mm, 630 mm
- Position:	On the bonnet
- Height of outlet above ground	2700 mm

TRANSMISSION

Clutch:

- Make and model:	F & S GMF 330
- Type:	Dry single acting
- Number of plates:	1
- Diameter of plates:	330 mm
- Method of operation:	pedal

Gear box:

- Make:	Valmet
- Type:	Constant mesh, fully synchronized
- Arrangement:	Two hand levers
- Number of speeds:	16 forward, 8 reverse

Rear axle and final drives:

- Make:	Valmet
- Type:	Crown wheel and pinion differential, planetary final drives

Differential lock:

- Type:	Multidisc
- Method of operation:	Electrohydraulically by a press button

Front axle and final drives:

- Make:	Valmet 380, optional heavy duty axle, fitted on tractor tested Valmet 300, standard axle, turning radius 4,8 m
- Type:	Crown wheel and pinion differential, planetary final drives
- Driven from:	Gearbox
- Differential lock:	
- Type:	Limited slip
- Method of operation:	Self locking

Transmission Oils:

- Gearbox, rear axle, final drives and hydraulics:
  - Capacity 51 l
  - Change period 800 h
  - Filter one full flow paper filter
  - Filter change period 400 h
- Front wheel drive:
  - Differential 5 l
  - Final drives 2 x 1,75 l
  - Oil change period 800 h

Total ratios and speeds:

Group	Gear	Number of engine revolution for one revolution of the driving wheel	Nominal travelling speed of rated engine speed, 2100 r/min[1] km/h
Forward			
L	1L	190,55	3,2
	H	151,67	4,0
	2L	136,33	4,5
	H	108,52	5,6
	3L	96,05	6,3
	H	76,45	8,0
	4L	76,68	7,9
	H	61,04	10,0
H	1L	56,46	10,8
	H	44,94	13,6
	2L	40,39	15,1
	H	32,15	19,0
	3L	28,46	21,4
	H	22,65	26,9
	4L	22,72	26,8
	H	18,09	33,7
Reverse			
R	1L	119,56	5,1
	H	95,17	6,4
	2L	85,54	7,1
	H	68,09	9,0
	3L	60,26	10,1
	H	47,97	12,7
	4L	48,12	12,7
	H	38,30	15,9

1) Calculated with a tyre radius of 770 mm

POWER TAKE-OFF

- Type:	Independent
- Number of shafts:	Two
- Number of speeds	Two
- Method of engagement	Hand lever operated electrohydraulical multi plate clutch together with a synchromesh collar shifter
- Clutch plates:	ϕ 110 mm, 6 plates

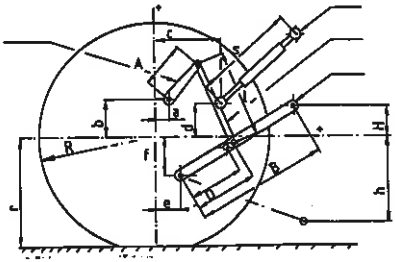
Proportional Engine speed P.T.O.

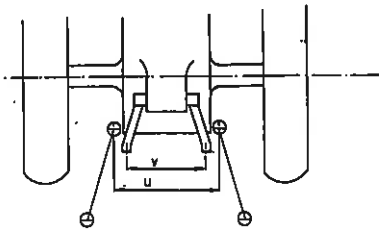
- **540 r/min PTO**	
- Ratio:	3,506
- Distance from the median plane of the tractor:	0 mm
- Distance behind rear axle:	470 mm
- Height above ground (16.9-38 tyres):	685 mm
- Nominal diameter of power-take-off shaft:	35 mm
- Number of splines:	6, according to standard ISO 500
- Speed at rated engine speed:	599 r/min
- Engine speed at standard power take-off speed:	1893 r/min
- Power restrictions:	None
- Direction of rotation, viewed facing driving end:	clockwise
- **1000 r/min PTO:**	
- Ratio:	2,038
- Distance from the median plane of the tractor:	0 mm
- Distance behind rear axle:	470 mm
- Height above ground (16.9-38 tyres)	800 mm
- Nominal diameter of power take off shaft:	35 mm
- Number of splines:	21, according to standard ISO 500
- Speed at rated engine speed:	1030 r/min
- Engine speed at standard power take-off speed:	2038 r/min
- Direction of rotation, viewed facing driving end:	clockwise

POWER LIFT

- Make:	Valmet
- Type and number of rams:	None
- Type and number of cylinders:	Two external, single acting
- Opening pressure of the cylinder safety valve:	20 MPa
- Type of pump:	Gear pump
- Pump drive:	From PTO transmission
- Pressure of the relief valve setting:	17 MPa

- Number of filters:	2
- Type of filters:	Suction strainer and pressure filter
- Oil change period:	800 h
- Filters change period:	400 h
- Oil capacity:	51 l
- Controls:	Draught-position control, operating speed control, lower link sensing
- Type of oil tappings:	Standard connection
- Location of oil tappings:	At the rear of the tractor
- Number of oil tappings:	1 double acting, 1 single acting
- Maximum oil delivery which may be taken off through oil tappings:	20 l normal, 30 l with extra oilfilling
- Pressure utilizable for continuous hydraulic motor work:	15 MPa
- Three point linkage:	
- Category:	2, according to standard ISO 730
- Method of category changing:	None





Rear tyres radius	R	780 mm
Front tyres radius	r	595 mm
Length of lift arms	A	310 mm
Length of lower links	B	920 mm
Distance of lift arm pivot point from rear wheel centre line:		
- horizontally	a	108 mm
- vertically	b	278 mm
Horizontal distance between the two lower connection points	u	590 mm
Horizontal distance between the two lift arms end	v	535 mm
Length of top link	S	585...840 mm

Distance of top connection points from rear wheel centre line:		
- horizontally	c	476 mm
- vertically	d	245 mm
Distance of lower connection points from rear wheel centre line:		
- horizontally	e	196 mm
- vertically	f	258 mm
Distance of lower connection points to lift rods pivot on lower links	D	365, 430 mm
Length of lift rods	L	585...805 mm
Height of lower link hitch points:		
- low position	h	495 mm
- high position	H	110 mm

SWINGING DRAWBAR: Not fitted on tractor tested, optional

TRAILER HITCH

- Type:	Hitch-hook
- Height above ground:	525 mm
- Distance of hitch point from rear axle, horizontally:	507 mm
- Distance of hitch point from power take-off shaft end:	
- vertically:	540 r/min pto 160 mm and 1000 r/min pto 275 mm below
- horizontally:	24 mm behind
- Maximum vertical load on hitch-hook:	53 kN

HOLED DRAWBAR: None

STEERING

- Type:	Hydrostatic
- Make:	Danfoss orbitrol
- Working pressure:	12 MPa
- Oil capacity:	same oil as in transmission

BRAKES:

Service brake

- Type:	Oil immersed disc brakes
- Make:	Girling
- Method of operation:	Two pedals, hydraulically actuated, independent or combined operation
- Trailer brake take-off:	Hydraulic, optional

Parking brake

-Type:	Mechanical, coupled to both service brakes
- Method of operation:	Hand lever with ratchet

WHEELS

Steering wheels

- Number: 2
- Tyres:
  - Size: 13.6 - R 28
  - Ply rating: 8
  - Type of casing: Radial
- Maximum permissible mass on each tyre: 1645 kg
- Corresponding inflation pressure: 200 kPa
- Track widths: 1730, 1775, 1800, 1860, 1990
- Method of adjustment: Offset lug rims and reversing wheel centres

Driving wheels:

- Number: 2
- Tyres:
  - Size: 16.9-R 38
  - Ply rating: 8
  - Type of casing: Radial
  - Maximum permissible mass on each tyre: 2520 kg
  - Corresponding inflation pressure: 170 kPa
- Track widths: 1520, 1600, 1700, 1800, 1950, 2000, 2110
- Method of adjustment: Offset lug rims and reversing wheel centres

WHEELBASE: 2535 mm

OVERALL DIMENSIONS

	Length	Width		Height to top of	
		minimum	maximum	exhaust silencer	safety cab
	m	m	m	m	m
With ballast	4,73	2,00	2,59	2,70	2,70
Without ballast	4,40	2,00	2,59	2,70	2,70

Tyres: front 12.6-R28, rear 16.9-R38

GROUND CLEARANCE

- Minimum ground clearance: 440 mm
- Clearance limiting part: Hitch-hook

SPECIFICATION OF THE SAFETY STRUCTURE

- OECD approval number: Not yet approved
- Trade name: Volvo BM Valmet H 505...805
- Safety structure manufacturers name: Volvo BM Hallsbergsverken
- Safety device: Cab

Details of materials used in the construction:

- Main frame:	40 x 40 x 3 hollow section killed steel
- Mountings:	Rubber bushes
- Cladding:	Steel sheet 2 and 3 mm
- Roof:	Steel sheet 1,5 mm
- Padding:	Noise reduction materials
- Type of windscreen:	Tempered safety glass

Driver's seat:

- Make and model:	Grammer DS 85 H/3A
- Type of suspension:	Spiral spring
- Type of damping:	Hydraulic damper
- Range of adjustment:	
- longitudinal	180 mm
- vertical	± 30 mm

Mudguard seat: 220 mm x 300 mm on left side mudguard

LIGHTNING

- Unrestricted beam angle of headlight in plan view: 108°

	Height above ground of centre with tyres: 16.9-38 m	Size mm	Distance from outside edge of tractor, at 1700 mm trackwidth to centre mm
Headlights	1,19	90x150	991
Sidelights	1,73	65x 90	410
Rear lights	1,71	65x 90	455
Reflectors	1,50	40x180	410

CONDITIONS DURING TEST

Track setting:

- Front:	1730 mm
- Rear:	1700 mm

Tractor mass and ballasting:
- Tractor:
  With tanks full and cab, without driver

		Front	Rear	Total
Without ballast	kg	1960	2150	4110
With ballast	kg	2870	3200	6070

- Ballast:

	Weights Number	Total mass (kg)	Water (kg)
Front	14	420	270
Rear	8	640	630
Additional	-	-	-

Fuel used in test:
- Fuel: Dieseloil, according to national standards
- Specific gravity at 15°: 0,83

RECOMMENDED OILS

	Recommended	Used in tests
- Engine oil: Type: Viscosity:	 API CD SAE 10W/30, under -20°C SAE 5W/20 or SAE 5W/30	 Texaco Universal Tractor Oil 10 W/30
- Transmission oils:[1] Type: Viscosity:	 API GL-4, STOU SAE 10W/30	Teboil Hypoid
- Front wheel drive oils: Type Viscosity:	 API GL-5 (EP) or API GL-4 80W/90 or 10W/30	Texado hypoid 80/90 EP
- Recommended grease:	Universal grease	
- Number of grease points:	15	

1) Includes hydraulic and steering oils.

II TEST RESULTS

COMPULSORY TESTS

1. MAIN POWER TAKE-OFF PERFORMANCE

Tractor: Volvo BM Valmet 905-4
Date and location of tests: 10.5.1984, Vihti
Type of dynamometer: Schenk W 400

Power kW	Speed		Fuel consumption		
	Engine rev/min	Power take-off rev/min	Hourly l/h	Specific g/kWh	Specific energy kWh/l
MAXIMUM POWER - 2 hour test at rated engine speed					
72,2	2100	1030	21,8	253	3,30
STANDARD POWER TAKE-OFF SPEED (1000 rev/min)					
71,8	2038	1000	21,4	249	3,35
PART LOADS					
(1) 85 % of torque obtained at maximum power					
63,0	2154	1057	19,4	258	3,24
(2) 75 % of torque defined in (1)					
48,2	2201	1080	15,7	273	3,06
(3) 50 % of torque defined in (1)					
32,6	2232	1095	12,3	317	2,64
(4) 25 % of torque defined in (1)					
16,5	2264	1111	9,3	468	1,78
(5) Unloaded					
-	2297	1127	6,0	-	-

Part loads, the governor hand level in the position corresponding to the standard power take-off speed at full load (1000 rev/min)

Power kW	Speed		Fuel consumption		
	Engine rev/min	Power take-off rev/min	Hourly l/h	Specific g/kWh	Specific energy kWh/l
The torque corresponding to maximum power at standard power take-off speed					
71,8	2038	1000	21,4	249	3,35
(1) 85 % of torque obtained at maximum power					
62,8	2095	1028	18,8	250	3,34
(2) 75 % of torque defined in (2)					
48,0	2134	1047	15,3	267	3,13
(3) 50 % of torque defined in (2)					
32,4	2160	1060	11,9	307	2,72
(4) 25 % of torque defined in (2)					
16,4	2191	1075	8,8	447	1,87
(5) Unloaded					
-	2221	1090	5,9	-	-

STANDARD SPECIFIC FUEL CONSUMTPION 258/273/250/267/ g/kWh
- No load maximum engine speed 2297 rev/min
(*) Torque at maximum power 328 Nm
(*) Maximum torque 382 Nm
1243 rev/min
at engine speed

- Mean atmospheric
  - Temperature 15 °C
  - Pressure 1011 mbar
  - Relative humidity 20 %
- Maximum temperatures
  - Coolant 93 °C
  - Engine oil 105 °C
  - Fuel 42 °C
  - Engine air intake 30 °C

(*) The torque is the equivalent crankschaft torque

DRAWBAR PERFORMANCE: 4.7.-10.7.1984

- Date of tests:
- Type of track: Tarmacadam
- Type and size of tyres: - Front: 13.6-28
  - Rear: 16.9-38

Ballasted tractor — Height for drawbar above ground: 520 mm — Rear tyre inflation pressure: 1,7 bars
Unballasted tractor — Height for drawbar above ground: 520 mm — Rear tyre inflation pressure: 1,3 bars

Gear number	Speed	Power	Drawbar pull	Engine speed	Slip of wheels	Specific energy	Specific fuel consumption	Temperature			Atmospheric conditions		
								Fuel	Coolnt	Engine	Temperature	Relative humidity	Pressure
	km/h	kW	kN	rev/min	%	kWh/l	g/kWh	°C	°C	°C	°C	%	mbar
(1) MAXIMUM POWER (Ballasted tractor)													
L1L	3,0	38,6	46,2	2179	14,9	2,37	349	33	78	58	17	50	1006
L1H	3,7	47,7	46,2	2144	14,8	2,21	372	37	79	67	17	50	1006
L2L	4,1	53,5	47,0	2115	14,8	2,47	333	39	81	71	16	50	1006
L2H	5,5	56,7	37,3	2118	9,6	2,67	307	40	79	78	16	50	1006
L3L	6,2	59,6	34,8	2090	9,0	2,74	299	42	79	82	20	50	1006
L3H	8,0	59,6	26,8	2102	6,2	2,73	301	43	79	81	19	50	1006
L4L	8,0	59,0	26,4	2110	5,6	2,72	304	38	78	67	23	50	1006
L4H	10,1	59,3	21,0	2092	4,6	2,73	300	42	78	71	21	50	1006
H1L	10,4	60,6	20,9	1992	4,7	2,88	284	44	78	77	20	50	1006
H1H	13,7	61,0	16,0	2060	3,4	2,85	289	45	78	79	20	50	1006
H2L	14,4	59,1	14,7	1913	1,8	2,87	285	44	77	81	22	50	1006
(2) FIVE HOUR TEST at 75 % of pull at maximum power													
L3H	8,2	50,3	22,0	2122	4,4	2 10	339	52	79	102	24	55	1010
(3) FIVE HOUR TEST at pull corresponding to 15 % wheelship in test (1)													
L2L	4,1	52,7	46,8	-	-	-	-	51	80	101	23	65	1015
(4) MAXIMUM POWER (Unballasted tractor)													
L1L	3,1	28,1	33,0	2197	14,3	2,05	402	38	78	60	16	55	1003
L1H	3,8	35,1	33,4	2181	14,7	2,15	383	39	78	70	15	55	1003
L2L	4,2	38,6	32,7	2168	14,0	2,31	354	44	78	83	16	55	1003
L2H	5,2	48,7	33,4	2135	14,1	2,30	356	44	78	84	16	55	1003
L3L	5,8	53,0	32,8	2116	15,0	2,50	328	43	79	85	17	55	1003
L3H	7,8	57,3	26,4	2110	8,8	2,61	314	42	78	84	19	55	1003
L4L	7,7	58,5	27,4	2102	9,3	2,69	305	42	78	84	18	55	1003
L4H	9,8	59,7	22,0	2067	6,9	2,73	300	41	78	83	21	55	1003
H1L	10,8	61,3	20,5	2081	5,8	2,88	285	41	78	82	27	55	1003
H1H	13,4	61,6	16,5	2038	4,4	2,92	282	42	78	82	18	55	1003
H2L	15,7	58,0	13,3	2111	3,4	2,75	299	41	80	81	18	55	1003

Oil consumption during drawbar tests was 59 g/h

3. TURNING SPACE AND TURNING CIRCLE:

- Details of wheel equipment:
  - Size: - Front: 13.6-28 Track of wheels - Front: 1730 mm
    - Rear: 16.9-38 - Rear: 1700 mm

	With brake		Without brake	
	Right hand m	Left hand m	Right hand m	Left hand m
Radius of turning space	5,23	5,78	5,87	5,90
Radius of turning circle	5,61	6,16	6,25	6,28

4. LOCATION OF CENTRE OF GRAVITY:

	mm
Height above ground	970
Distance forward from the vertical plane containing the axis of the rear wheels	1190
Distance from the median plane of the tractor	0

5. BRAKING PERFORMANCE:

- Date of tests: 24.-25.10.1984
- Tractor masses during brake tests

		Front	Rear	Total
Unballasted	kg	1960	2150	4110
Ballasted	kg	2870	3200	6070

Speed before application of brakes: 38,7 km/h

Braking device, control force	N	250	300	400	500	600
Type 0 test, ordinary cold service braking device test						
Ballasted tractor deceleration	m/s^2	-	2,8	3,1	3,0	3,0
Unballasted tractor deceleration	m/s^2	3,0	3,2	3,2	3,1	-
Type 1 test, fade test						
Ballasted tractor deceleration	m/s^2	-	2,7	3,1	3,1	3,0

Maximum deviation of tractor from its original course 0 m
Abnormal vibration none

Parking braking device test

	Slope of 18 %		Slope of 12 % with trailer of 3 tonnes	
	Up	Down	Up	Down
Braking device control	270	400	160	270

6. MEASUREMENT OF AMBIENT NOISE:

- Date of tests: 20.11.1984
- Type of sound level meter: Brüel & Kjaer 2209
- Type of track: Tarmacadam

Results of tests

- Gear number: 16 (H4H)
- Travelling speed before acceleration 27,6 km/h
- Sound level 89,5

7. NOISE MEASUREMENT AT DRIVER'S EAR LEVEL:

- Date of tests: 20.11.1984
- Type of sound level meter: Brüel & Kjaer 2209
- Type of track: Tarmamacadam
- With/without safety structure: With cab

Gear number -	Drawbar pull kN	Measured travelling speed km/h	Sound level, all openings closed dB(A)	Number of driving axles engaged -
Unloaded test in the gear giving the speed nearest to 7,5 km/h				
L3L	0	6,8	79	2
Unloaded test in the gear giving the maximum speed				
H4H	0	36,9	79	2
Test with the drawbar pull for which the tractor gives the maximum sound level (combination of gear giving the nearest nominal speed to 7,5 km/h and also in any gear with a sound level increase of at least 1 dB(A)				
L3L	27	6,6	82	2
L4H	20	10,3	83	2
H1L	18	11,8	83	2

8. LIFTING CAPACITY AND HYDRAULIC POWER

Date and location of tests: Vihti 30.11.1984

Hydraulic fluid

Make and type: Teboil Hypoid

Viscosity SAE 10 W/30

Type of hydraulic system: open

Hydraulic fluid temperature: 60 °C

Power lift Test

	Height of lower hitch point above ground in mm	Vertical movement mm	Maximum corrected force exerted through full kN	Corresponding pressure of hydraulic fluid MPa	Moment about rear axle kNm	Max. tilt angle of mast overrange of degrees
at hitch points	285	605	41,1	16,5	46,1	-
on the frame	285	605	30,9	16,5	53,5	3

Main linkage dimensions - see drawing on page 8

Lifting heights relative to the horizontal plane including the lower link pivot points							
mm	-237	-100	0	100	200	300	368
Lifting forces at hitch points (corresponding pressure 16,5 MPa)							
kN	41,1	41,8	42,1	41,9	41,6	41,6	41,5
Lifting forces at test frame (corresponding pressure 16,5 MPa)							
kN	44,4	42,8	40,1	38,3	35,8	32,3	30,9

Hydraulic power test

Substained pressure with relief valve open 18 MPa

Pump delivery rate at minimum pressure 47,5 l/min

Flow rate corresponding to a hydraulic pressure equivalent to 90 per cent of the actual relief valve pressure setting and corresponding hydraulic power

Flow rate	39,4 l/min
Pressure	16,2 MPa
Power	10,6 kW

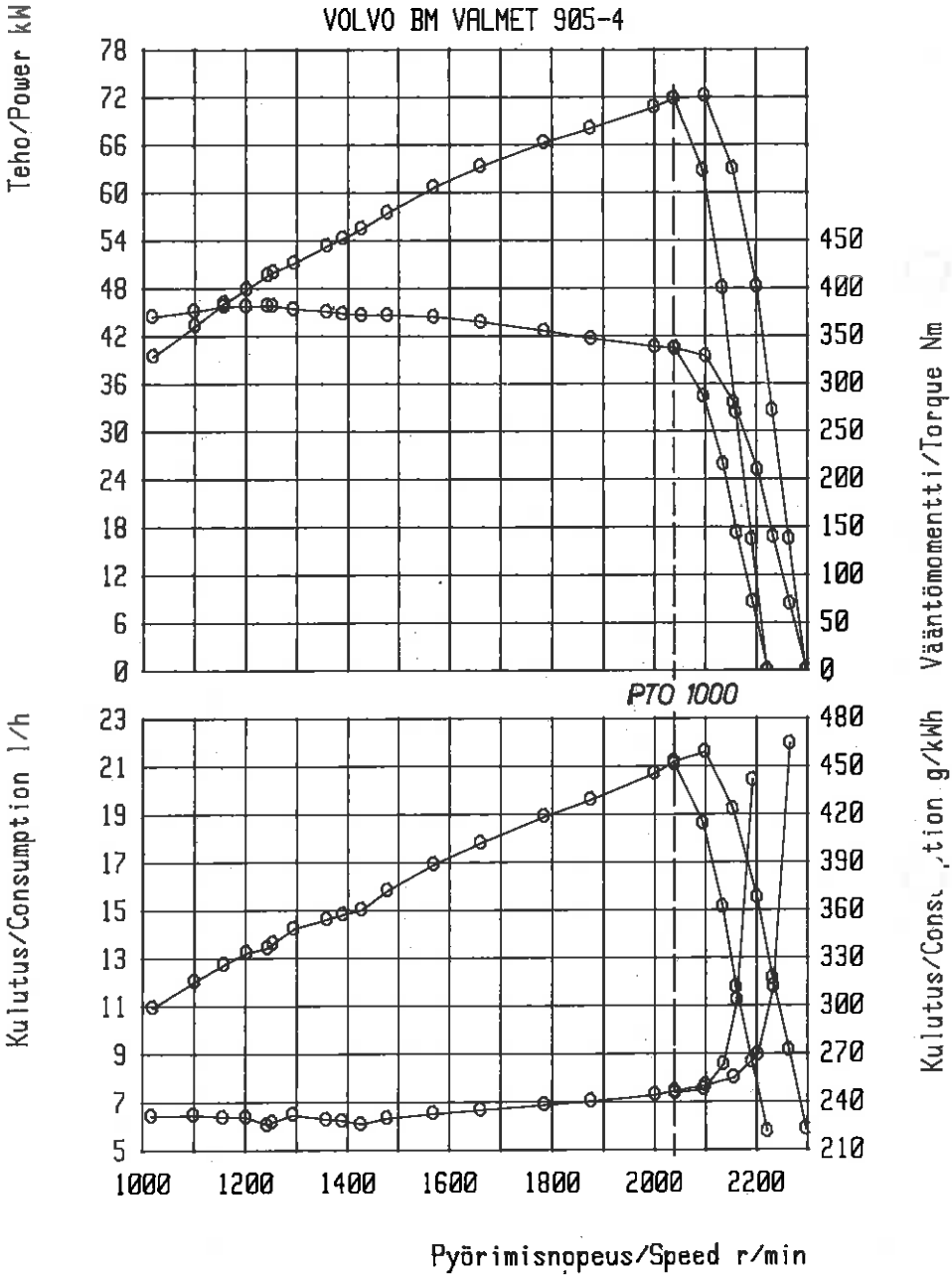
Flow rate and hydraulic pressure corresponding to maximum hydraulic power

Flow rate	41,3 l/min
Pressure	16,0 MPa
Power	11,0 kW

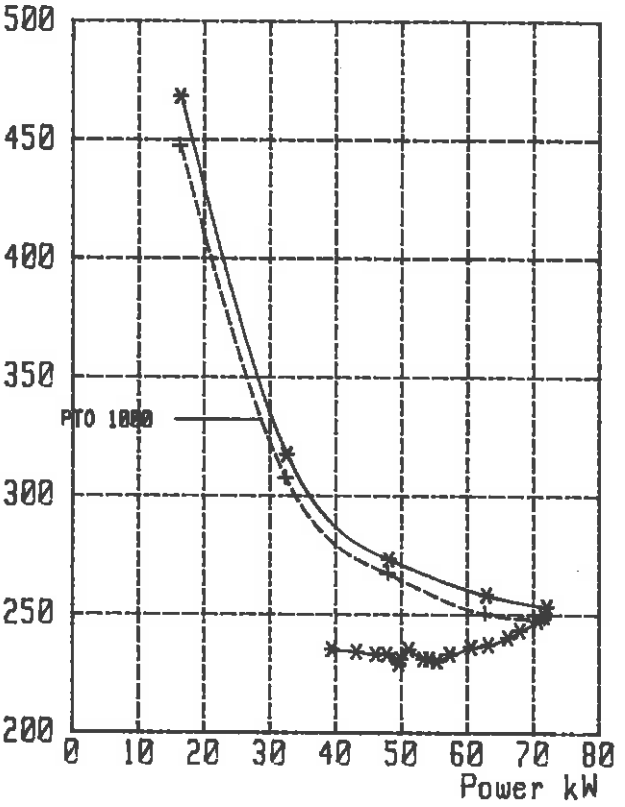
Tapping point used for test: external tapping

REMARKS AND REPAIRS

None


VOLVO BM VALMET 905-4
Teho/Power kW
Kulutus/Consumption l/h
Väntömomentti/Torque Nm
Pyörimisnopeus/Speed r/min
PTO 1000
78
72
66
60
54
48
42
36
30
24
18
12
6
0
450
400
350
300
250
200
150
100
50
0
23
21
19
17
15
13
11
9
7
5
480
450
420
390
360
330
300
270
240
210
1000
1200
1400
1600
1800
2000
2200

Specific fuel cons. g/kWh



Vihdin Kirjapaino Oy, Vihti 1985