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

TEST BULLETIN: O.E.C.D. No. 923

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



VOLVO BM VALMET 805

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

Date of approval: 19. 6. 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:	50 h

I SPECIFICATION OF THE TRACTOR

TRACTOR:

- Make:	Volvo BM Valmet
- Model:	805
- Type:	Rear wheel drive, unit construction
- Serial number:	503 780
- First serial No:	500 007

ENGINE:

- Make:	Valmet
- Model:	TD 44 DS8
- Type:	4-stroke, direct injection, water cooled
- Serial No:	47 102

Cylinders:

- Number and disposition:	4, vertical, in line
- Bore:	108 mm
- Stroke:	120 mm
- Capacity:	4400 cm^3
- Compression ratio:	16:1
- Arrangement of valves:	Overhead
- Cylinder liners:	Wet, replaceable

Supercharger:

- Make:	Holset
- Model:	HID
- Type of drive:	Exhaust
- Pressure:	110 kPa

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 4A, in line, serial no 4437 4302
- Manufacturers production setting of injection pump	85,0 ± 1 cm^3/1000 stroke/1050 rpm
- Injection timing	21° 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:	12 l
- Oil change period:	200 h

Cooling system:

- Type of coolant:	Anti-freeze
- Type of pump:	Centrifugal
- Fan diameter:	430 mm
- Number of fan blades:	6
- Type of temperature control:	Thermostat
- Coolant capacity:	15,5 l
- System pressure:	40 kPa

Starting system:

- Make and model:	Lucas 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, 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:	ø 130 mm, 600 mm
- Position:	On the bonnet
- Height of outlet above ground	2740 mm

TRANSMISSION

Clutch:

- Make and model:	LUK A1 43103001
- Type:	Dry single acting
- Number of plates:	1
- Diameter of plates:	310 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:

- Make: Valmet, agricultural type

Transmission Oils:

- Capacity:
  - Gear box, rear axle, hydraulics and final drives 51 l
  - Change period 800 h
  - Filter change period 400 h

Total ratios and speeds:

Group	Gear	Number of engine revolution of 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	74,45	8,0
	4L	76,68	8,0
	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	21,3
	H	22,65	26,7
	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

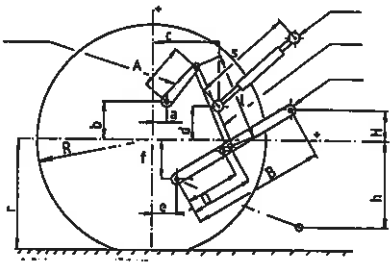
POWER TAKE-OFF

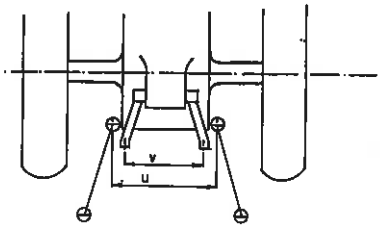
- Type:	Independent
- Number of shafts:	Two
- Number of speeds	Two
- Method of engagement	Hand lever operated electrohydraulical multi plate clutch together with a collar shifter
- Clutch plates:	ϕ 110 mm, 6 plates
- **540 r/min PTO**	
- Ratio:	3,506
- Distance from the median plane of the tractor:	0 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
- 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 1
- Controls:	Draught-position control, operating speed control, lower link sensing
- Type of oil tappings:	Push-pull
- Location of oil tappings:	At the rear of the tractor
- Number of oil tappings:	3
- 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 (16.9-38) radius	R	780 mm
Front tyres (10.00-16) radius	r	415 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	505 mm
- high position	H	100 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:	160 mm below 540 r/min and 275 mm below 1000 r/min pto
- 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 change period:	800 h
- Filter change period:	400 h

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: 10,00- 16
  - Ply rating: 8
  - Type of casing: Diagonal
- Maximum permissible mass on each tyre: 1190 kg
- Corresponding inflation pressure: 280 kPa
- Track widths: 1545, 1645, 1745, 1845
- Method of adjustment: Telescopic front axle

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: 2385 mm

OVERALL DIMENSIONS

	Length	Width		Height to top of	
		minimum	maximum	exhaust silencer	safety cab
	m	m	m	m	m
With ballast	4,44	2,00	2,59	2,65	2,71
Without ballast	4,11	2,00	2,59	2,65	2,71

Tyres: Front 10.00 - 16, rear 16.9 - R38

GROUND CLEARANCE

- Minimum ground clearance: 450 mm
- Clearance limiting part: Engine

SPECIFICATION OF THE SAFETY STRUCTURE

- OECD approval number:	CSD 0609/4
- 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 H/90 AR
- 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	1,06	90x150	928
Sidelights	1,71	65x 90	410
Rear lights	1,73	65x 90	455
Reflectors	1,50	40x180	410

CONDITIONS DURING TEST

Track setting:

- Front:	1645 mm
- Rear:	1700 mm

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

		Front	Rear	Total
Without ballast	kg	1330	2200	3530
With ballast	kg	1950	3160	5110

- Ballast:

	Weights Number	Total mass (kg)	Water (kg)
Front	14	440	
Rear	8	610	530
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
- 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 805-4
Date and location of tests: 17.9.1983, Vihti
Type of dynamometer: Schenk W 400

Power kW	Engine rev/min	Speed: Power take-off rev/min	Fuel consumption: Hourly l/h	Fuel consumption: Specific g/kWh	Fuel consumption: Specific energy kWh/l
MAXIMUM POWER - 2 hour test at rated engine speed					
66,6	2100	1030	18,7	234	3,56
STANDARD POWER TAKE-OFF SPEED (1000 rev/min)					
66,1	2038	1000	18,4	232	3,59
PART LOADS					
(1) 85 % of torque obtained at maximum power					
58,1	2156	1058	17,0	244	3,42
(2) 75 % of torque defined in (1)					
44,4	2201	1080	14,1	265	3,15
(3) 50 % of torque defined in (1)					
30,1	2234	1096	11,2	311	2,68
(4) 25 % of torque defined in (1)					
15,3	2274	1116	8,3	453	1,84
(5) Unloaded					
-	2319	1138	5,4	-	-

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 Engine rev/min	Speed Power take-off rev/min	Fuel consumption Hourly 1/h	Fuel consumption Specific g/kWh	Fuel consumption Specific energy kWh/l
(1) The torque corresponding to maximum power at standard power take-off speed					
66,1	2038	1000	18,4	232	3,59
(2) 85 % of torque obtained at maximum power					
58,1	2107	1034	16,3	234	3,56
(3) 75 % of torque defined in (2)					
44,3	2142	1051	13,8	260	3,21
(4) 50 % of torque defined in (2)					
30,1	2185	1072	10,9	302	2,76
(5) 25 % of torque defined in (2)					
15,3	2215	1087	7,9	431	1,94
(6) Unloaded					
-	2252	1105	5,0	-	-

STANDARD SPECIFIC FUEL CONSUMTPION		244/311/234/302/ g/kWh
- No load maximum engine speed		2319 rev/min
(*) Torque at maximum power		303 Nm
(*) Maximum torque		366 Nm
		1400 rev/min
		at engine speed
- Mean atmospheric	- Temperature	19 °C
	- Pressure	1021 mbar
	- Relative humidity	25 %
- Maximum temperatures	- Coolant	80 °C
	- Engine oil	96 °C
	- Fuel	40 °C
	- Engine air intake	24 °C

(*) The torque is the equivalent crankschaft torque

DRAWBAR PERFORMANCE:

- Date of tests: 28.9.-4.10.1984
- Type of track: tarmacadam
- Type and size of tyres: - Front: 10.00-16
  - Rear: 16.9-38

Ballasted tractor
Unballasted tractor

Height fo drawbar above ground: 525 mm / 525 mm

Rear tyre inflation pressure: 1,5 bars / 1,0 bars

Gear number	Speed km/h	Power kW	Drawbar pull kN	Engine speed rev/min	Slip of wheels %	Specific energy kWh/l	Specific fuel consumption g/kWh	Temperature Fuel °C	Temperature Coolant °C	Temperature Engine °C	Atmospheric conditions Temperature °C	Atmospheric conditions Relative humidity %	Atmospheric conditions Pressure mbar
(1) MAXIMUM POWER (Ballasted tractor)													
1. L1L	3,0	28,9	34,7	2181	13,6	1,92	433	26	78	60	11	75	1005
L1H	3,8	35,8	34,0	2207	14,3	2,33	356	29	78	78	10	75	1005
2. L2L	4,2	40,4	34,6	2208	15,0	2,51	330	28	79	75	11	75	1005
L2H	5,2	49,4	34,5	2162	15,0	2,74	302	31	78	81	12	75	1005
3. L3L	5,7	52,4	33,1	2130	14,2	2,77	299	31	79	82	11	75	1005
L3H	7,5	54,3	26,2	2115	11,5	2,78	297	33	79	83	13	75	1005
4. L4L	7,3	53,6	26,5	2103	12,8	2,82	293	32	79	82	11	75	1005
L4H	9,5	54,7	20,7	2100	9,4	2,85	291	32	78	81	11	75	1005
5. [illegible]	10,4	55,7	19,3	2115	9,3	2,90	285	32	79	80	11	75	1005
[illegible]	13,2	52,3	14,3	2102	7,4	2,74	302	29	79	61	13	76	1008
(2) FIVE HOUR TEST at 75 % of pull at maximum power													
4. L4L	8,1	45,3	20,1	2189	6,7	2,72	303	38	80	95	14	76	1008
(3) FIVE HOUR TEST at pull corresponding to 15 % wheelship in test (1)													
3. L3L	5,7	51,9	33,0	2102	-	-	-	40	80	101	15	87	1006
(4) MAXIMUM POWER (Unballasted tractor)													
1. L1L	3,1	20,5	23,8	2270	14,1	1,80	460	28	79	64	14	70	1009
L1H	3,9	26,3	24,6	2254	14,7	2,11	393	30	79	77	16	70	1009
2. L2L	4,3	28,7	24,2	2243	15,0	2,23	371	32	79	83	15	70	1009
L2H	5,3	36,5	24,7	2215	14,3	2,27	363	35	78	85	16	70	1009
3. L3L	6,0	41,2	24,8	2195	14,4	2,37	348	36	78	85	16	70	1009
L3H	7,3	50,8	25,1	2144	15,0	2,77	298	35	78	81	18	70	1009
4. L4L	7,3	50,2	24,8	2158	14,5	2,73	302	33	79	78	18	70	1009
L4H	9,1	53,4	21,1	2097	12,7	2,78	297	34	79	80	17	70	1009
5. H1L	10,1	54,8	19,6	2102	11,5	2,85	289	36	79	82	16	70	1009
H1H	12,8	55,3	15,5	2089	9,6	2,88	286	37	78	83	17	70	1009
6. H2L	14,9	55,1	13,3	2081	8,3	2,84	290	38	78	82	18	70	1009

Oil consumption during drawbar tests was 50 g/h

3. TURNING SPACE AND TURNING CIRCLE:

- Details of wheel equipment:
  - Size: - Front: 10.00-16 Track of wheels - Front: 1645 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	4,33	4,23	5,13	5,00
Radius of turning circle	4,03	3,93	4,83	4,70

4. LOCATION OF CENTRE OF GRAVITY:

	mm
Height above ground	960
Distance forward from the vertical plane containing the axis of the rear wheels	1000
Distance from the median plane of the tractor	0

5. BRAKING PERFORMANCE:

- Date of tests: 9.11.1984
- Tractor masses during brake tests

		Front	Rear	Total
Unballasted	kg	1660	2180	3840
Ballasted	kg	2580	3140	5720

Speed before application of brakes: 38,0 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	2,4	2,9	3,1	3,0	3,0
Unballasted tractor deceleration	m/s^2	3,4	3,5	3,3	-	-
Type 1 test, fade test						
Ballasted tractor deceleration	m/s^2	2,3	2,9	3,2	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 force N	300	300	300	300

6. MEASUREMENT OF AMBIENT NOISE:

- Date of tests: 6.5.1985
- Type of sound level meter: Brüel & Kjaer 2209
- Type of track: Tarmacadam

Results of tests

- Gear number: 8 (H4H)
- Travelling speed before acceleration: 28,5 km/h
- Sound level: 88 dB(A)

7. NOISE MEASUREMENT AT DRIVER'S EAR LEVEL:

- Date of tests: 6.5.1985
- 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)
Unloaded test in the gear giving the speed nearest to 7,5 km/h			
L4L	0	8,4	78,5
Unloaded test in the gear giving the maximum speed			
H4H	0	39,0	80,5
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)			
L4L	23,0	7,0	81
L2H	26,0	4,9	82
L3H	20,0	7,1	82
L4H	16,0	9,0	82
H4L	15,0	9,5	82

8. LIFTING CAPACITY AND HYDRAULIC POWER

Date and location of tests: Vihti 2.3.1983

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 over range of degrees
at hitch points	275	605	40,2	16,0	45,1	-
on the frame	275	605	30,4	16,0	52,5	4

Main linkage dimensions - see drawing on page 8

Lifting heights relative to the horizontal plane including the lower link pivot points

mm	-247	-100	0	100	200	358

Lifting forces at hitch points (corresponding pressure 16,0 MPa)

kN	42,0	40,8	40,7	40,3	40,7	40,2

Lifting forces at test frame (corresponding pressure 16,0 MPa)

kN	44,1	42,0	39,2	37,0	34,2	30,4

Hydraulic power test

Substained pressure with relief valve open 17,5 MPa

Pump delivery rate at minimum pressure 51,2 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	42,0 l/min
Pressure	15,8 MPa
Power	11,1 kW

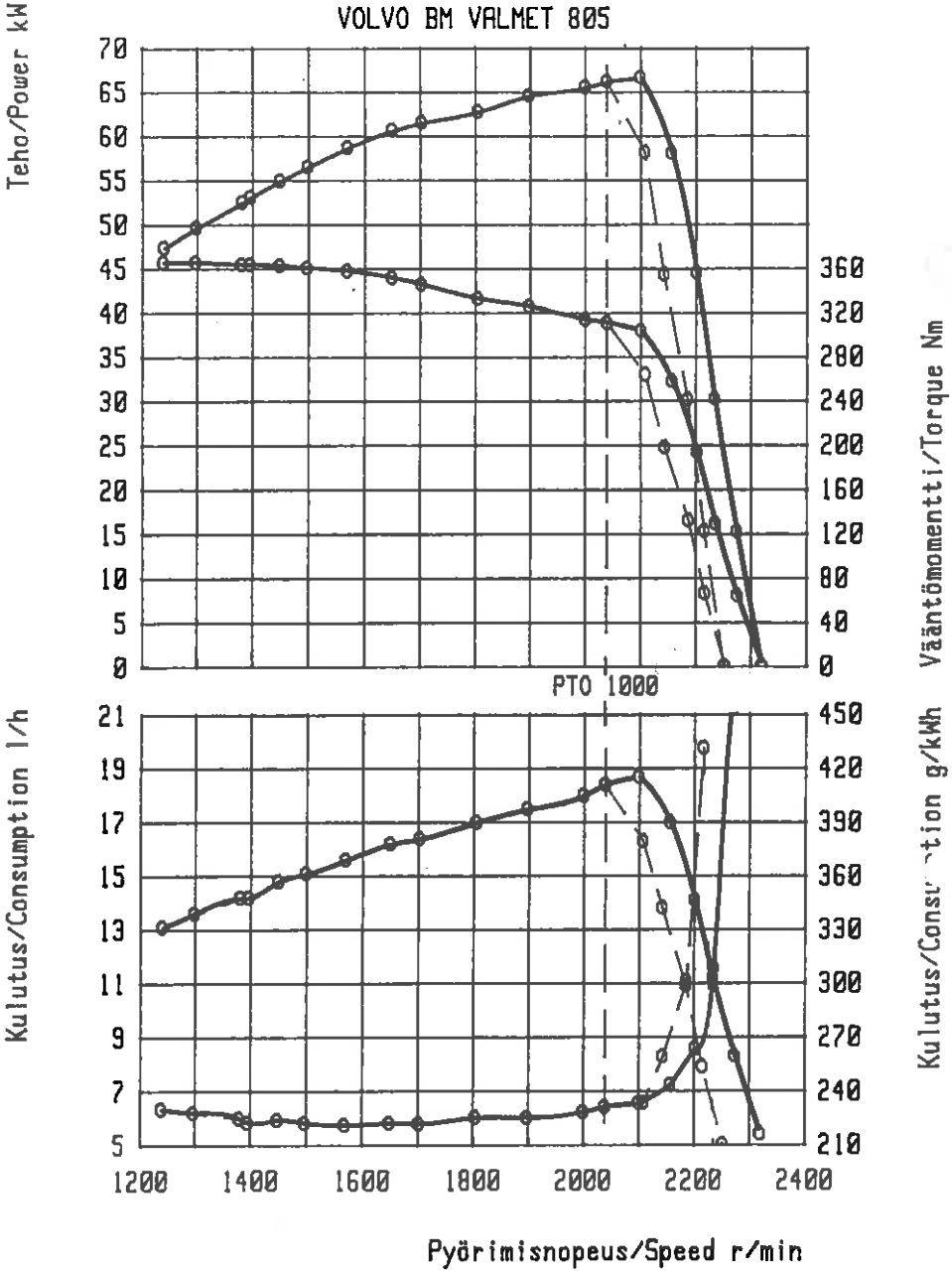
Flow rate and hydraulic pressure corresponding to maximum hydraulic power

Flow rate	48,7 l/min
Pressure	15,5 MPa
Power	12,6 kW

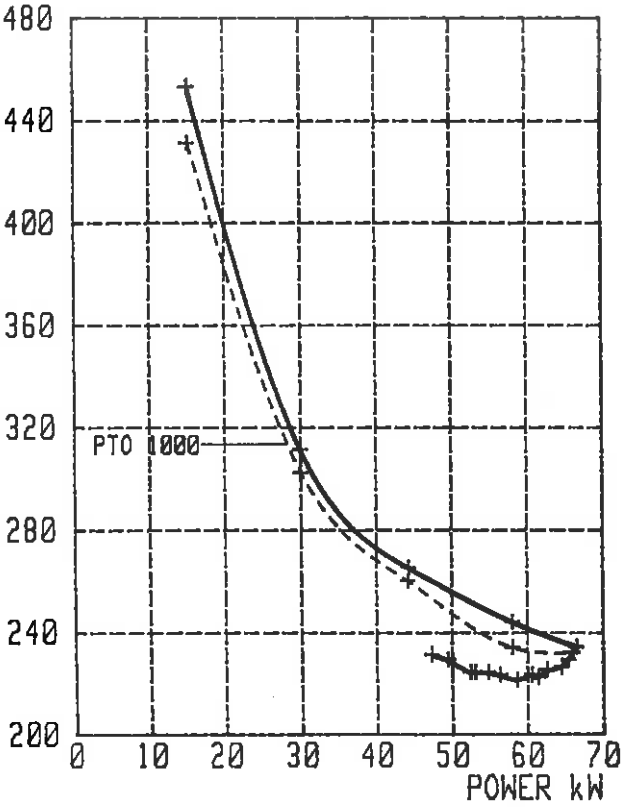
Tapping point used for test: external tapping

REMARKS AND REPAIR

None


VOLVO BM VALMET 805
Teho/Power kW
Kulutus/Consumption l/h
Kulutus/Consumption g/kWh
Vääntömomentti/Torque Nm
PTO 1000
Pyörimisnopeus/Speed r/min
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
360
320
280
240
200
160
120
80
40
0
21
19
17
15
13
11
9
7
5
450
420
390
360
330
300
270
240
210
1200
1400
1600
1800
2000
2200
2400

FUEL CONSUMPTION g/kWh



Vihdin Kirjapaino Oy, Vihti 1985