

Alustatunnus

B10M 41051

Polku

2551/Specifications//Turbocharger

Malli

B10M

Tunniste

75698764

Julkaisupäivämäärä

21.2.2006

Tunnus/Käyttö

Turbocharger

Turbocharger

Engine type	Turbo-compressor		Min. charging pressure	
	Make and type	kPa	at r/s	r/min
THD 101 GB	Holset H2C 8640 P/P 25T3	110	36.7	2200
101 GC.....	Holset H2C 8640 P/P 25T3	125	36.7	2200
101 GD	Holset H2C 8640 P/P 25T3	145	36.7	2200
101 GK	Holset H2C 8640 P/P 25T3	125	36.7	2200
101 KB	Holset H2C 8640 P/P 25T3	140	36.7	2200
101 KC	Holset H2C 8640 P/P 25T3	150	36.7	2200
101 KE.....	Holset H2C 8640 P/P 25T3	155	36.7	2200
101 KF	Holset H2C 8640 P/P 25T3	140	36.7	2200
102 KA.....	Holset H2D 9361 P/P 22U3	120	34.2	2050
102 KB.....	Holset H2D 9361 P/P 22U3	140	36.7	2200
102 KD.....	Holset H2D 9341 P/P 25T11	130	36.7	2200
102 KE.....	Holset H2D 9351 P/P 25T11	130	36.7	2200
102 KF	Holset H2D 9361 P/P 22U3	130	36.7	2200
103/104 KB	Holset H2D 9361 P/P 22U3	170 (4.31V) ¹	33.3	2000
103/104 KD.....	Holset H2D 9341 P/P 25T11	130 (3.67V) ¹	33.3	2000
103/104 KF	Holset H2D 9361 P/P 22U3	140 (3.83V) ¹	33.3	2000
Max. speed (all)		approx. 1400-1800 r/s (81000-108000 r/min)		

¹with ref. voltage 5V

Performance figures for EDC engines	
The following figures are the minimum permitted	
Measurement with engine at standstill	

Accelerator pedal at idle position:						
Engine designation.....		THD 103-104, KB, KF, KD				
Reference voltage (V).....		4.5-5.0				
Control.....		0.3-0.6				
Turbo boost (V).....		1.3-1.5				
Accelerator pedal in full-throttle position..... (of reference value)		62-70%				
Measurement on the move						
Engine designation.....		103 KB	104KB	103KF	104KF	103KD
Engine speed (r/min).....		1200	1200	1200	1200	1200
Control (V).....		2.52	2.55	2.31	2.35	2.54
Turbo boost (V).....		2.84	2.84	2.52	2.60	2.92
Accelerator pedal in full-throttle posiaion and engine under maximum load:						
Engine speed (r/min).....		1800	1800	1800	1800	1800
Control (V).....		2.84	2.77	2.51	2.51	2.68
Turbo boost (V)		4.11	3.8	3.48	3.32	3.56

Starting heater

Power.....	3500 W
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Pressure-drop indicator

Red indication at (early prod.) mm VP.....	450-550
(late prod.) mm VP.....	580-720

Exhaust-pressure governor

(only THD 103/104 engines)

Operating pressure at warm up.....	7.5 bar
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Cooling system

Typ.....	Overpressure, closed
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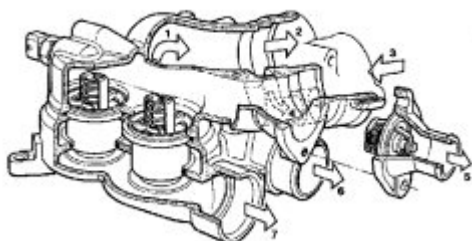
Tässä olevat tiedot ovat voimassa niiden alkuperäisen jakelun yhteydessä, mutta niitä voidaan muuttaa. Lukijan on huomattava, että tulostetut kopiot voivat olla vanhentuneita.

Pressure valve opens at.....	approx. 50 kPa (0.5 kp/cm ²)
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Coolant

Anti-frost		
Type temp.		°C
Consists of.....		Glycol with rustproofing
Colour.....		Blue-green
Volvo P/N	1 kg.....	1128700-9
	5 kg.....	1129701-7
	235 kg.....	1129702-5

Thermostat

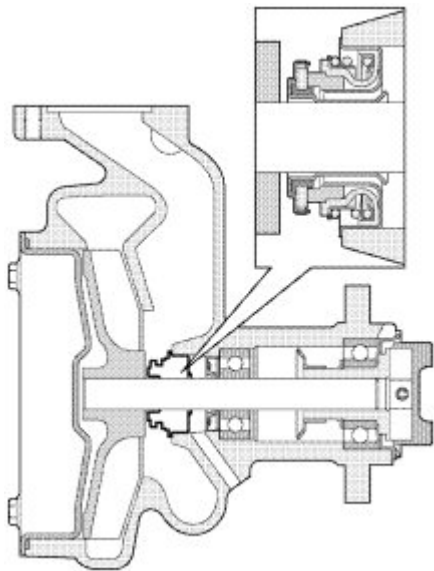


Type		Wax
Main thermostat - marking.....		82
	Starts opening at.....	82+2°C
	Fully open at.....	95+2°C
Marking, three-way thermostat, main system.....		80
	Starts opening at	78-82°C
	Fully open at	approx. 95°C
Marking, heat conductance thermostat		60
	Starts opening at	58-62°C
	Fully open at	approx. 77°C

Pumps

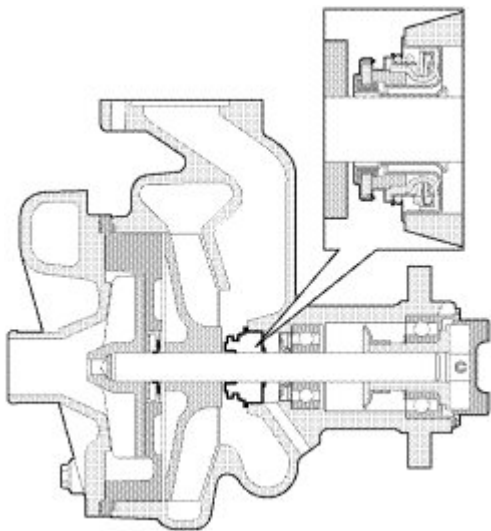
Engines type THD 101

Pump with one pump gear.



Engines type THD 101 KF, all THD 102 and all THD 103/104

Pump with two pump gears.



Intercooler

Engines type THD 101K		
	Marking, thermostat, hot circuit	71
	Starts opening at	71+2°C
	Fully open at max.....	85°C
Engines types THD 102 and THD 103		
	Marking, thermostat, hot circuit	87
	Starts opening at.....	87°C
	Fully open at	max. 100°C
The following three-way thermostats apply only to bus type B10M up to ch. no. approx. 39990		
	Marking, three-way thermostat, cold circuit	25

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	Starts opening at	25°C
	Fully open at	max. 35°C

Engines type THD 104 do not have any thermostats in the charging circuit.

Fans B10M

Temperature-regulated cooling fan

Type.....	Bi-metal plate/ fluid coupling	
Early prod.		
Fan speed at drive speed 36.7 r/s (2200 r/min)		
	below +40°C	min. 6 r/s (360 r/min)
	above +65°C	min. 34 r/s (2040 r/min)
Late prod.		
Fan speed at drive speed 38.3 r/s (2300 r/min)		
	below +37°C	min. 7 r/s (420 r/min)
	above +63°C	min. 35.7 r/s (2100 r/min)

The temp. degrees refer to the temperature round the bi-metal plate.

Prop shaft driven cooling fan

Drive belts		
	reduction 1:1	SPB 1305 Lw x 2 P/N 3035750
	reduction 1:1.2	SPB Lw x 2 P/N 3035752

Electric driven cooling fan

El. motor type.....		Compound
Power.....		0.72 kW
Speed during measuring		
	24V (27.5A)	32-33 r/s (1900-2000 r/min)
	27V (35 A)	33-35 r/s (2000-2100 r/min)
Automatically cuts-in/cuts-out at coolant temp.		82°C

Hydraulic drive cooling fan

Early prod. (front mounted)		
Pump, type	Volvo Flygmotor, F11-39	
Motor, type	Volvo Flygmotor, F11-28	
Reduction pump - motor	approx. 1:1.35	
Late prod. (side mounted HYDR. DRIV)		
Pump, type/designation	Vickers PVE 19 R	
Fan motor, type designation.....	Volvo Flygmotor, F11-19	
Fan speed at engine speed 1000 r/min and coolant temp.		
	below 90°C	approx. 700 r/min
	above 94°C	approx. 2000 r/min
Filter, P/N	4823936	
Drive belts.....	HC 50 1150 Lw x 2 P/N 966846	

Fans B10B

Temperature-regulated cooling fan

Type	Bi-metal plate/fluid coupling	
Fan speed at drive speed		
38.3 r/s (2300 r/min)		
	below +37°C	min. 7 r/s (420 r/min)
	above +63°C.....	min. 35.7 r/s (2100 r/min)

The temp. degrees refer to the temperature round the bi-metal plate.

Drive belt driven cooling fan (BELTDRIVE)

Fan drive reduction	1:1.22
Belt type/size (this drive made up of 4 belts)	HC 12.5 x 1550 P/N 9515805

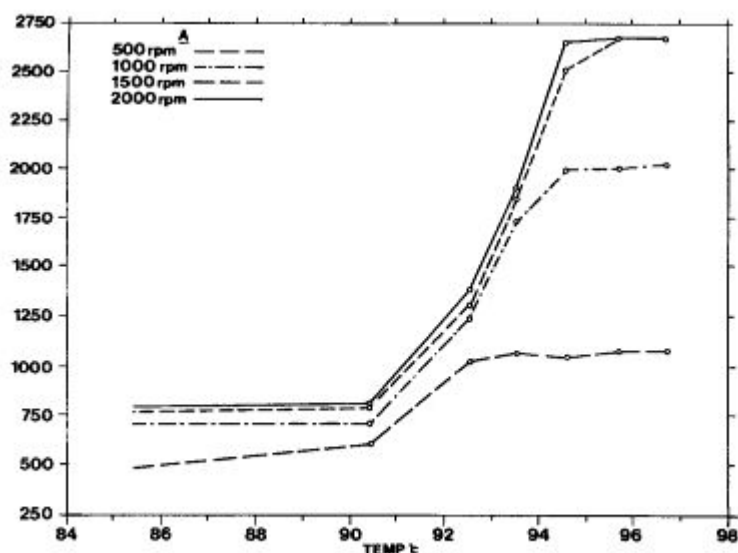
Hydraulic driven cooling fan

(rear-mounted HYDR. DRIVE)	
Pump, type/designation	Vickers PVE 19 R
Fan motor, type designation.....	Volvo Flygmotor, F11-19

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Fan speed at engine speed 1000 r/min and coolant temp.		
	below 90°C.....	approx. 700 r/min
	above 94°C	approx. 2000 r/min
Filter, P/N		4823936
Drive belts		
	early prod.	SPB 2410 Lw EI P/N 9515807
	late prod.	SPB 2380 Lw P/N 9518424



Fan speed, Engine speed, Coolant temp. °C