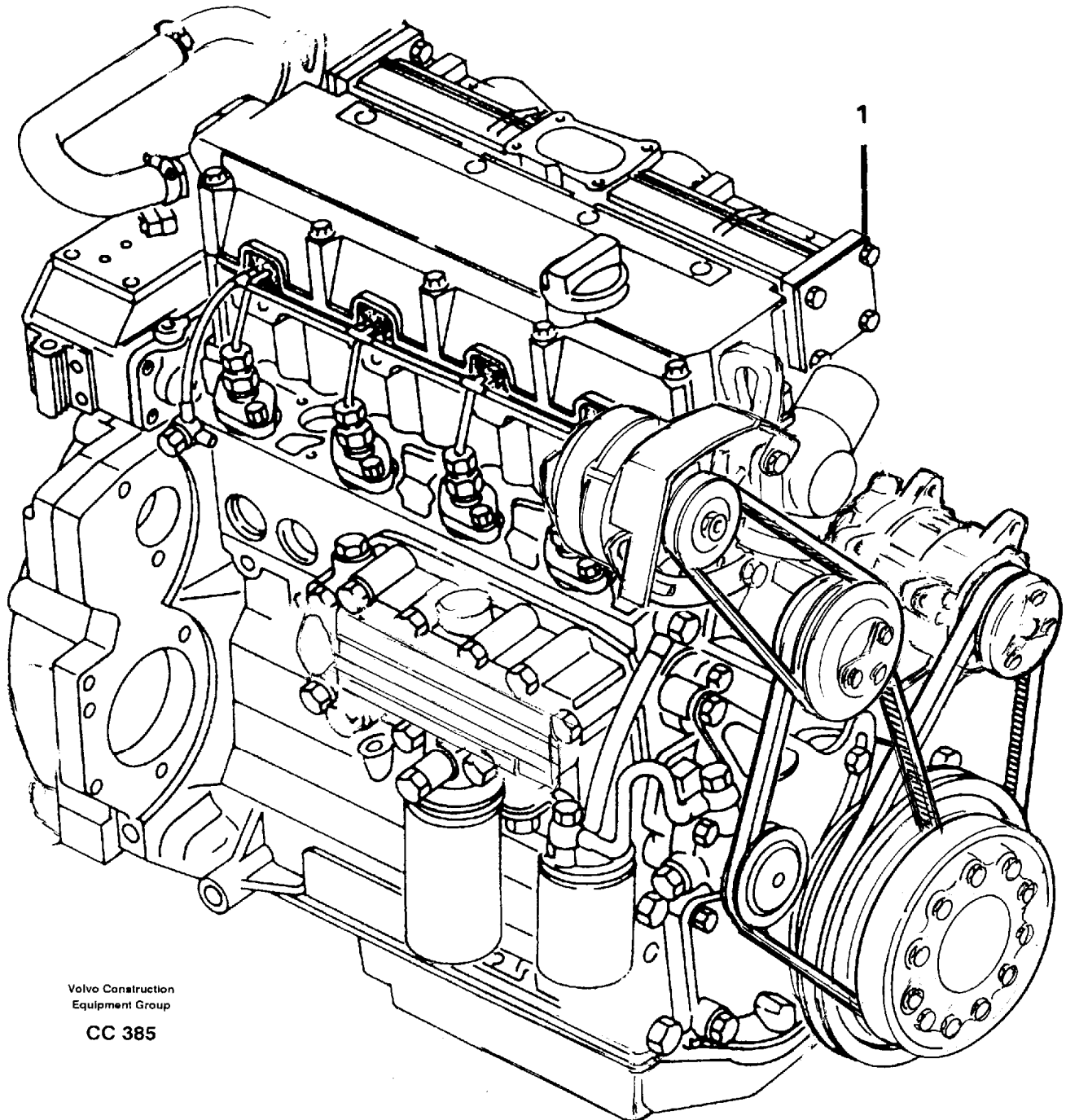


Date: <b>2014/1/23</b>	Image id: <b>CC385</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>210/150</b>	Title: <b>Engine TD48GAE</b>



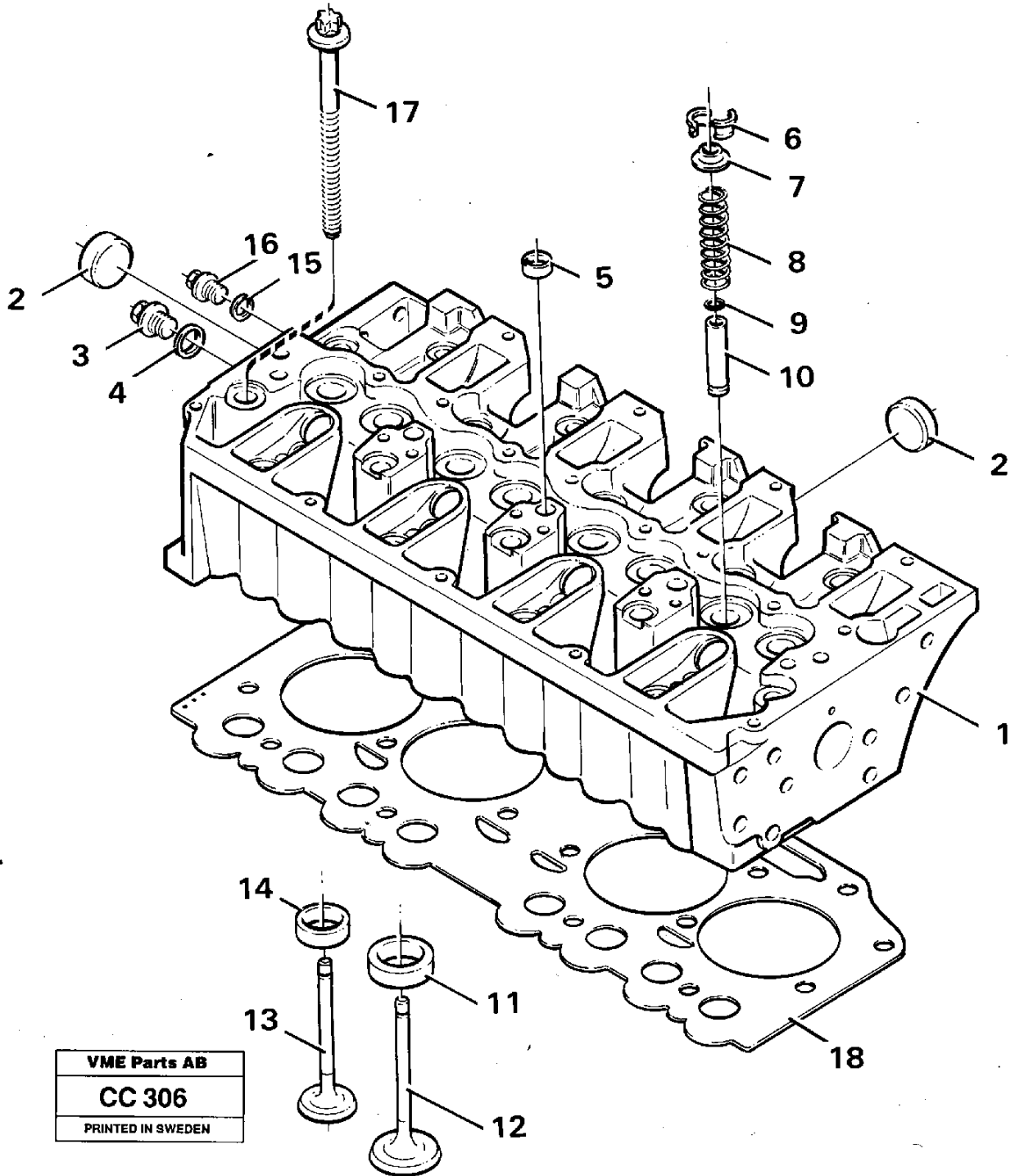
Volvo Construction  
Equipment Group  
CC 385

Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

Q1-Q5	Option	Option description
Q1 11033865	VOE11033865	Low emission engine TD48GAE

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11033865						OP		Engine		(11033921) TD48GAE
		1							•Cylinder head		See ref 211/100
		1							•Cylinder block		See ref 212/100
		1							•Crankcase ventilation		See ref 212/200
		1							•Cylinder liner		See ref 213/100
		1							•Valve mechanism		See ref 215/100
		1							•Timing gear casing		See ref 215/200
		1							•Crankshaft		See ref 216/100
		1							•Oil sump		See ref 217/100
		1							•Flywheel housing		See ref 218/100
		1							•Lubricating system		See ref 220/100
		1							•Oil pump		See ref 220/100
		1							•Oil cooler		See ref 223/100
		1							•Fuel system		See ref 230/100
		1							•Feed pump		See ref 233/100
		1							•Slurry separator		See ref 233/200
		1							•Injection pump		See ref 236/100
		1							•Regulator		See ref 236/200
		1							•Control rod		See ref 236/300
		1							•Delivery pipe		See ref 237/100
		1							•Injector		See ref 237/100
		1							•Exhaust system		See ref 252/100
		1							•Inlet system		See ref 256/100
		1							•Intercooler		See ref 256/100
		1							•Water pipe		See ref 260/100
		1							•Water pump and		See ref 262/100
		1							••Thermostat Housing		See ref 262/100
		1							•Stop solenoid		See ref 273/100
		1							•Pre-heater		See ref 333/100

Date: <b>2014/1/23</b>	Image id: <b>CC306</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>211/100</b>	Title: <b>Cylinder head</b>



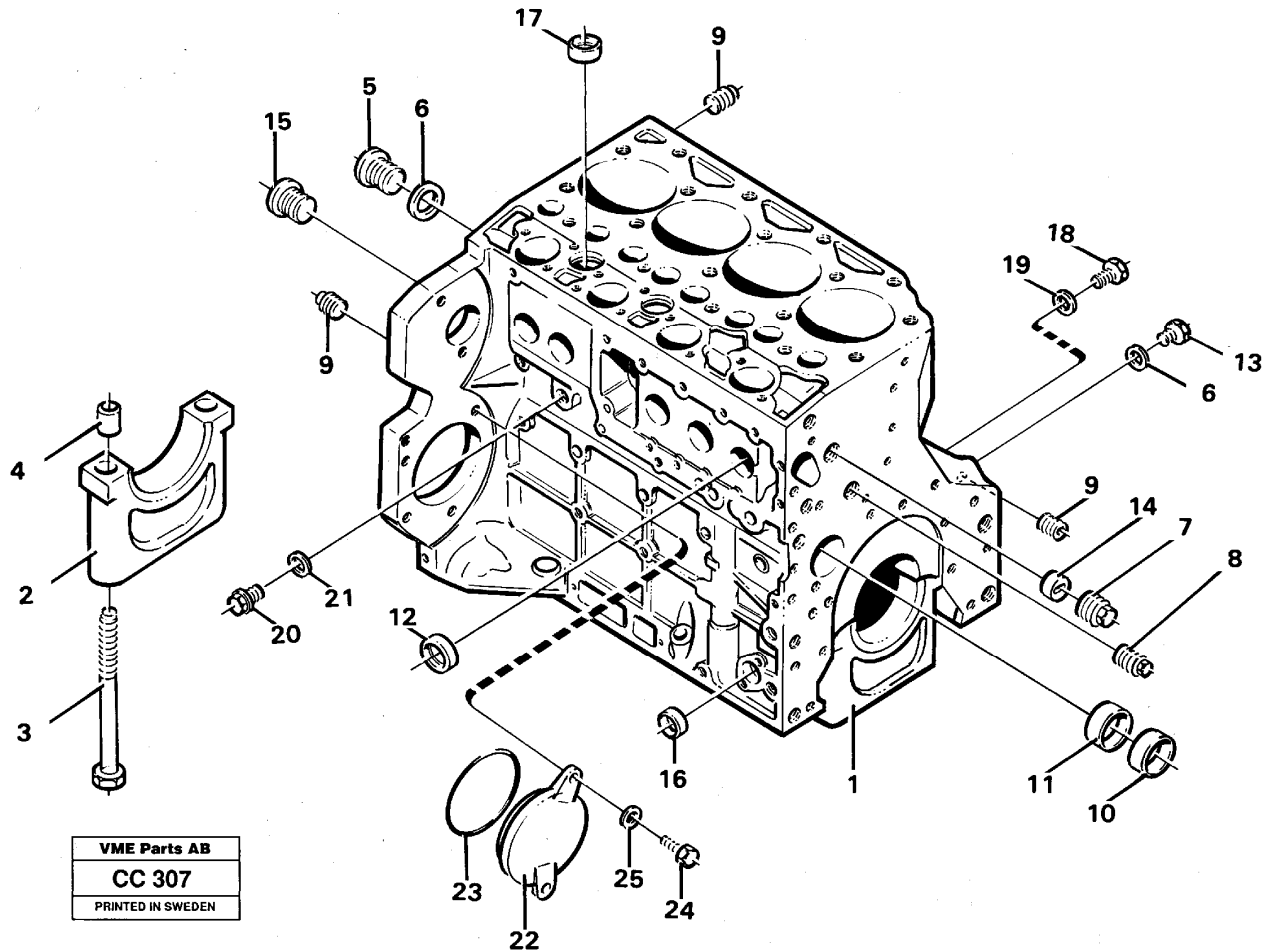
**VME Parts AB**  
**CC 306**  
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Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

Q1-Q5	Option	Option description	
Q1 11033865	VOE11033865	Low emission engine TD48GAE	

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11700343	1							Cylinder head		
2	VOE11700258	4							•Plug		
3	VOE11700287	1					OP		•Plug		
4	VOE11700280	1					SS	K	•Sealing ring		
5	VOE20412745	3							•Core plug		(VOE11700344)
6	VOE11700345	16							•Valve Collet		
7	VOE11700346	8							•Washer		
8	VOE11700347	8							•Valve spring		
9	VOE11700348	8						K	•O-ring		
10	VOE20405897	8							•Valve guide		(VOE11700349)
11	VOE20459962	4							•Valve seat		(VOE11700350)Inlet/ Insug
12	VOE11700351	4					SS		•Inlet valve		Inlet/Insug
13	VOE11700352	4					SS		•Exhaust valve		Outlet/Avgas
14	VOE20459963	4							•Valve seat		(VOE11700353)Outlet/ Avgas
15	VOE11700354	1					SS		•O-ring		
16	VOE20508662	1							•Plug		(VOE11700355)
17	VOE11700334	18							Screw		
18	VOE11700335	1						K	Cylinder head gasket		THICK=1,54 mm
	VOE11700336	1						K	Cylinder head gasket		THICK=1,64 mm
	VOE11700337	1						K	Cylinder head gasket		THICK=1,74 mm

Date: <b>2014/1/23</b>	Image id: <b>CC307</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>212/100</b>	Title: <b>Cylinder block</b>



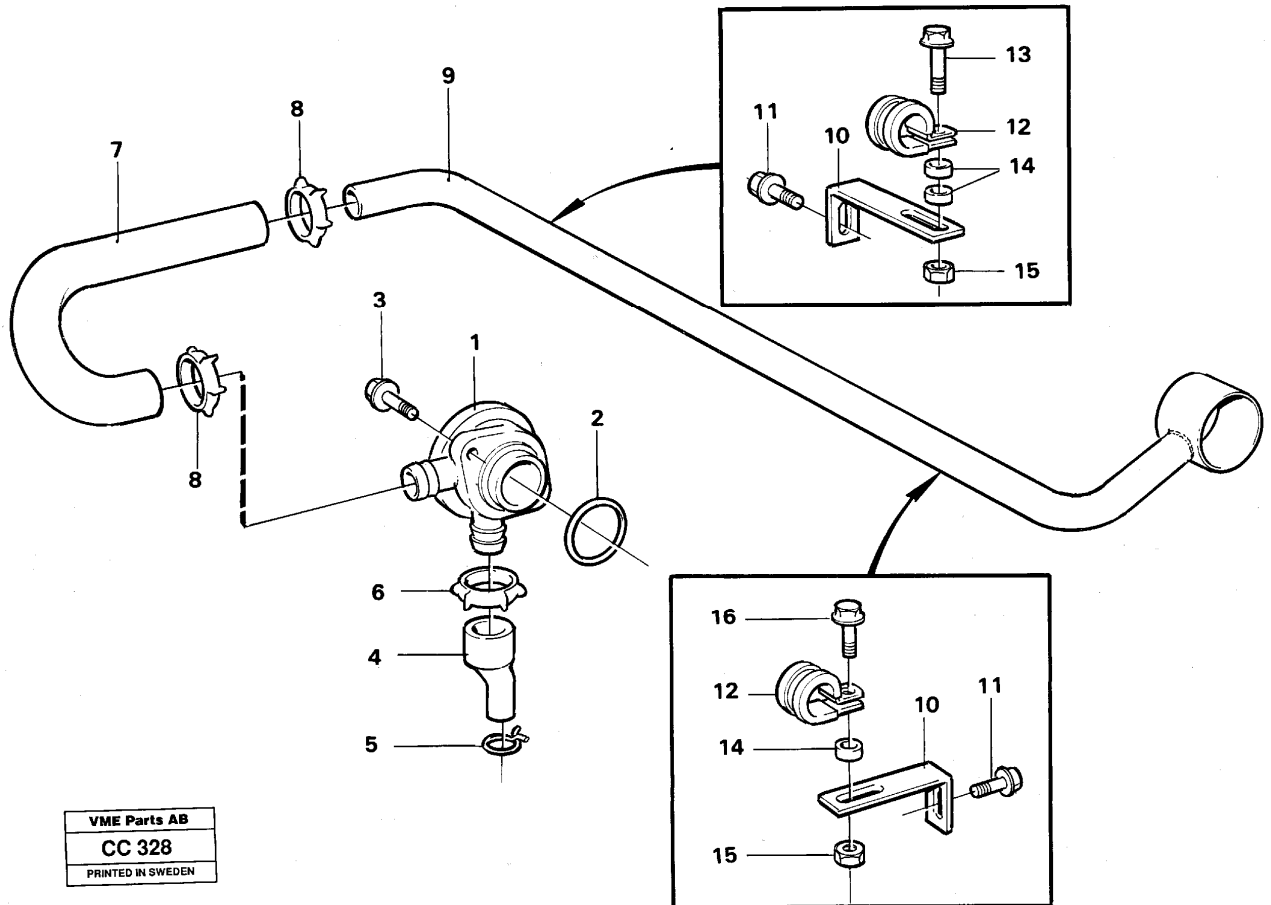
Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

Q1-Q5	Option	Option description
Q1 11033865	VOE11033865	Low emission engine TD48GAE

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11700276	1					OP		Cylinder block		
2		5					NS		•Bearing carrier		
3	VOE11700277	10					OP		•Bolt		
4	VOE11700278	10							•Bushing		
5	VOE11700279	1							•Plug		
6	VOE11700280	2					SS	K	•Sealing ring		
7	VOE11700281	1					OP		•Plug		
8	VOE11700282	1					OP		•Plug		

9	VOE20405718	3							•Plug		(VOE11700283)
10	VOE11700284	4							•Bearing bushing		
11	VOE11700285	1							•Bearing bushing		
12	VOE20405721	6							•Core plug		(VOE11700286)
13	VOE11700287	1						OP	•Plug		
14	VOE20405584	1							•Guide sleeve		(VOE11700288)
15	VOE21041648	1						OP	•Plug		(VOE11700289)
16	VOE11700258	1							•Plug		
17	VOE11700600	1						OP	•Plug		
18	VOE11700552	1						SS	•Plug		
19	VOE11700280	1						SS	•Sealing ring		
20	VOE11700552	1						SS	Plug		
21	VOE11700280	1						SS	Sealing ring		
22	VOE11700619	1						NS	Cover		
23	VOE11700620	1							O-ring		
24	VOE11700621	2							Screw		
25	VOE11700618	2						OP	Washer		

Date: <b>2014/1/23</b>	Image id: <b>CC328</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>212/200</b>	Title: <b>Crankcase ventilation</b>



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Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

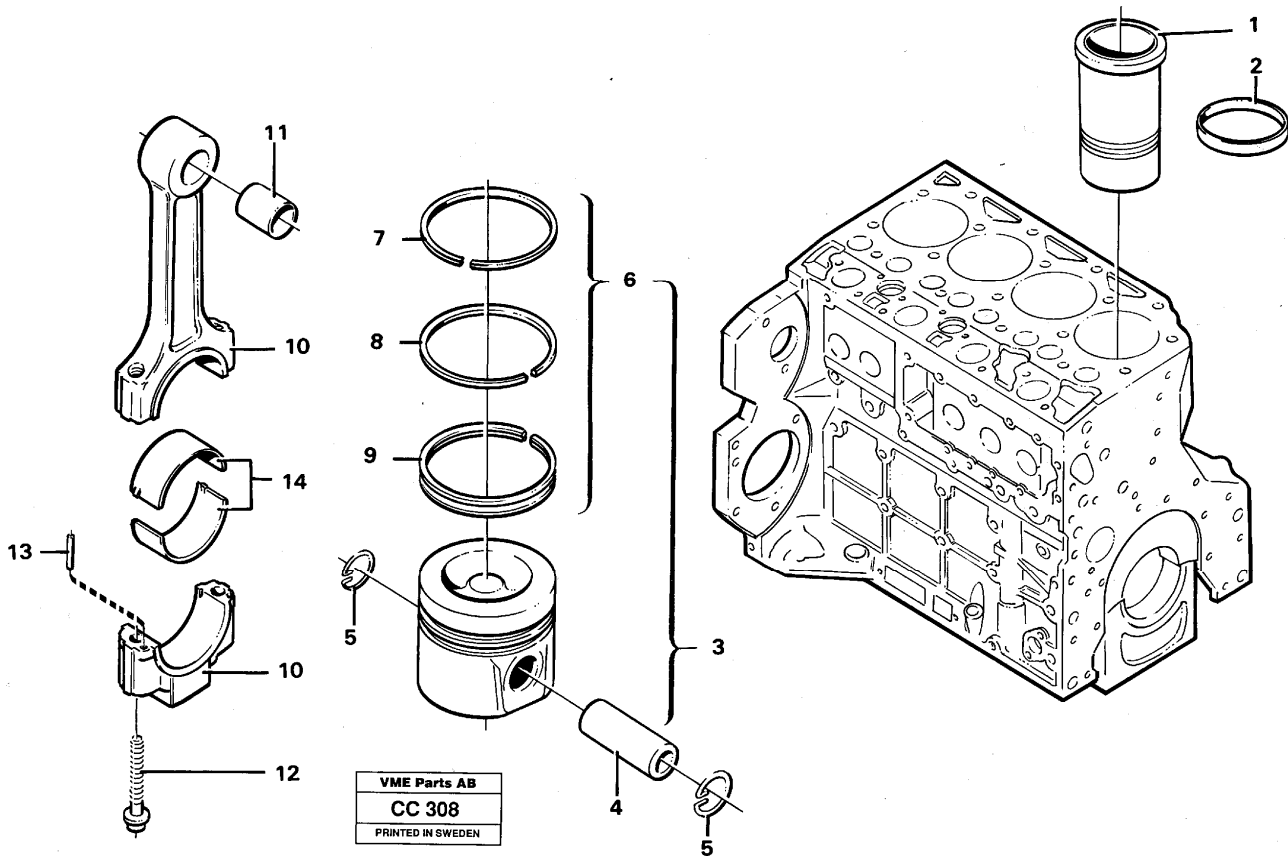
Q1-Q5	Option	Option description	
Q1 11033865	VOE11033865	Low emission engine TD48GAE	

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11700259	1					OP		Pressure regulator		
2	VOE11700260	1						K	O-ring		
3	VOE20451011	2					SS		Bolt		(VOE11700261)
4	VOE11700262	1					SS		Rubber hose		
5	VOE11700263	1					OP		Hose clamp		
6	VOE13943472	1							Hose clamp		(VOE11700264)
7	VOE20405629	1							Hose		(VOE11700297)
8	VOE13943472	3							Hose clamp		(VOE11700264)
9	VOE11700296	1					OP		Pipe		

10	VOE20450726	1							Bracket		(VOE11700295)
11	VOE20405885	2							Screw		(VOE11700292)
12	VOE20405532	2							Clamp		(VOE11700294)
13	VOE11700299	1					OP		Screw		
14	VOE20450730	3							Bushing		(VOE11700300)
15	VOE20501349	2							Hexagon nut		(VOE11700293)
16	VOE11700298	1							Screw		



Date: <b>2014/1/23</b>	Image id: <b>CC308</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>213/100</b>	Title: <b>Cylinder liner, piston and connecting rod</b>



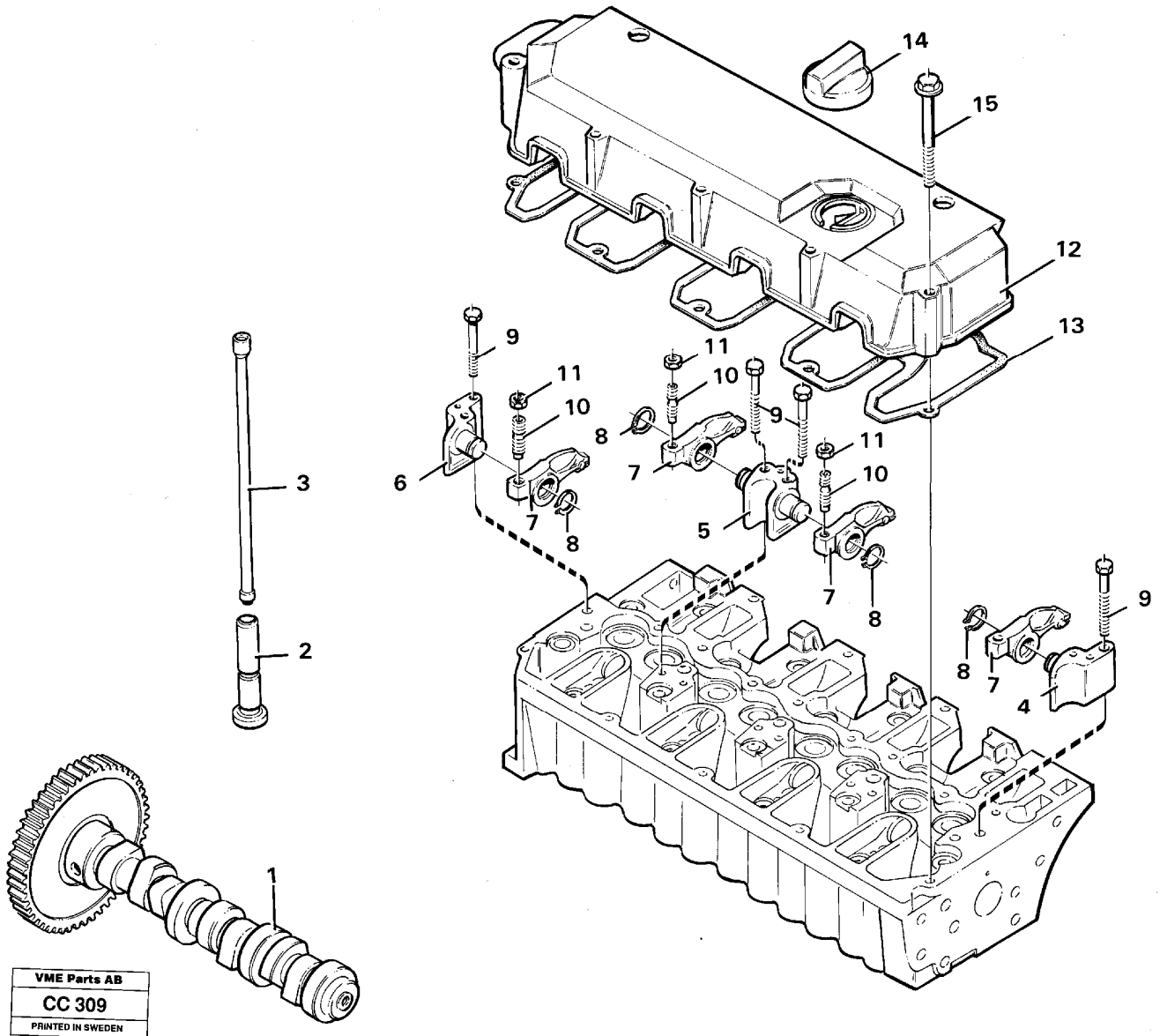
Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

Q1-Q5	Option	Option description
Q1 11033865	VOE11033865	Low emission engine TD48GAE

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11700290	4					SS		Cylinder liner		
2	VOE11700291	8						K	Sealing ring		
3	VOE11715845	4					OP		Piston kit		(VOE11700328)
4	VOE20405577	4							•Gudgeon pin		(VOE11700329)
5	VOE11700330	8					OP		•Retaining ring		
6	VOE20405571	4							•Piston ring set		(VOE11700331)
7	VOE11700664	4					NS		••Compression ring		
8	VOE11700665	4					NS		••Compression ring		
9	VOE11700666	4					NS		••Oil scraper ring		
10	VOE20585982	4							Connecting Rod		(VOE11700324)

11	VOE11700325	4							•Bushing		
12	VOE11700326	8							•Bolt		
13	VOE11700327	8					SS		•Locating pin		
		1							Crankshaft		See ref 216/100
14	VOE20565150	4							•Bearing		(VOE11700316)
15	VOE11700317	4					SS		•Big End Brg Kit		67,75 mm USZ
16	VOE11700318	4							•Big end bearing		67,50 mm USZ
17	VOE20405899	REQ							•Thrust washer		(VOE11700314)STD
18	VOE21141963	REQ							•Raceway washer		(VOE11700315) THICK=3,1

Date: <b>2014/1/23</b>	Image id: <b>CC309</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>215/100</b>	Title: <b>Valve mechanism</b>



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CC 309  
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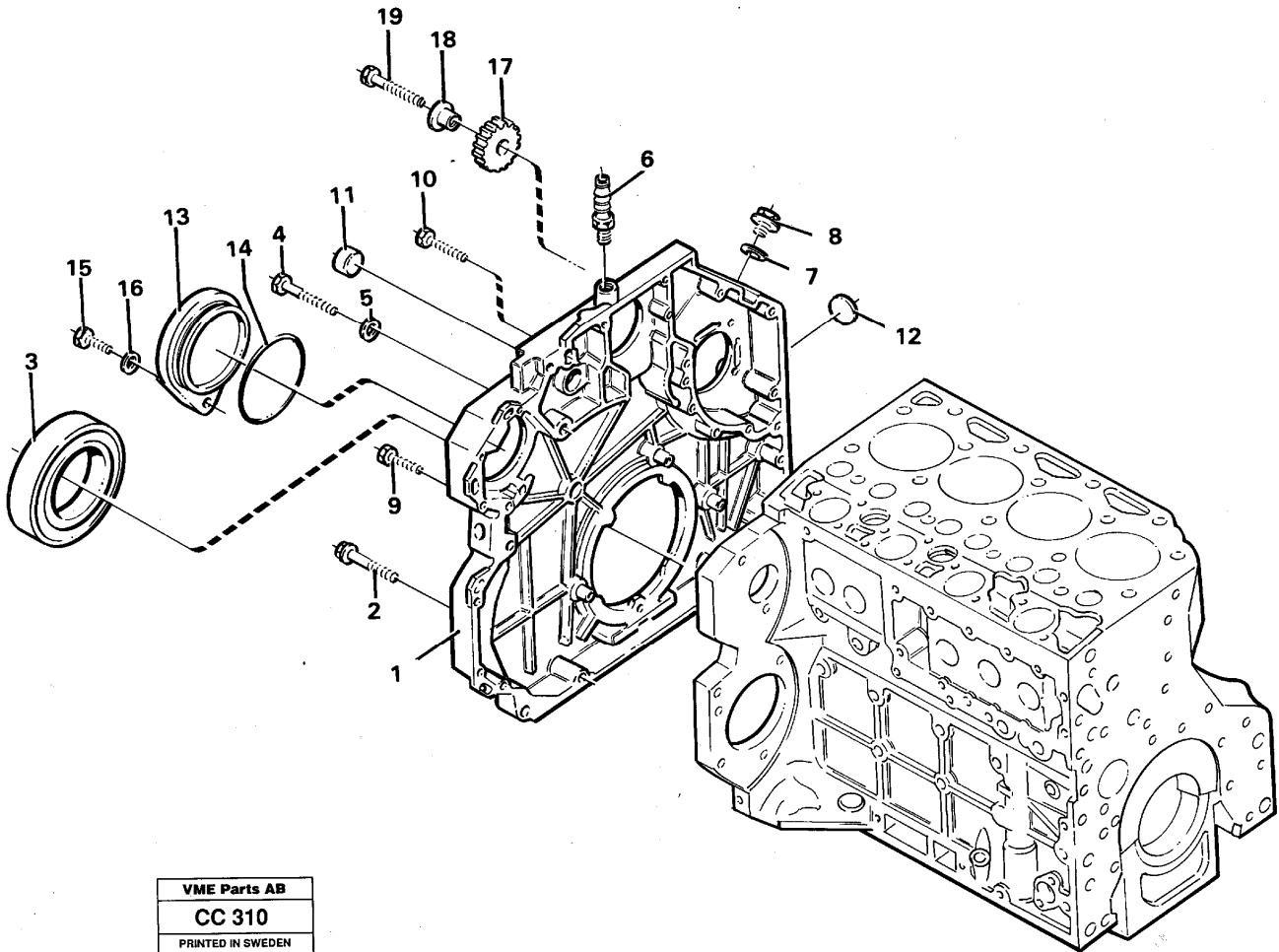
Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

Q1-Q5	Option	Option description
Q1 11033865	VOE11033865	Low emission engine TD48GAE

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE20412338	1							Camshaft		(VOE11700364)
2	VOE11700366	8							Tappet		BUY POS 3 AS WELL

3	VOE20405534	8							Push rod		(VOE11700365)BUY POS 2 AS WELL
4	VOE11700367	1							Bearing bracket		
5	VOE11700368	3							Bearing bracket		
6	VOE11700369	1							Bearing bracket		
7	VOE11700370	8							Rocker arm		
8	VOE945495	8							Retaining ring		(VOE11700371)
9	VOE20555068	10							Screw		
10	VOE11700372	8							Adjusting screw		
11	VOE11700373	8							Nut		
12	VOE20412587	1					SS		Valve Cover		(VOE11700338)
13	VOE20412588	1						K	Gasket		(VOE11700340)
14	VOE20412589	1							Filler cap		
15	VOE20412601	9							Screw		(VOE11700342)

Date: <b>2014/1/23</b>	Image id: <b>CC310</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>215/200</b>	Title: <b>Timing gear casing and gears</b>

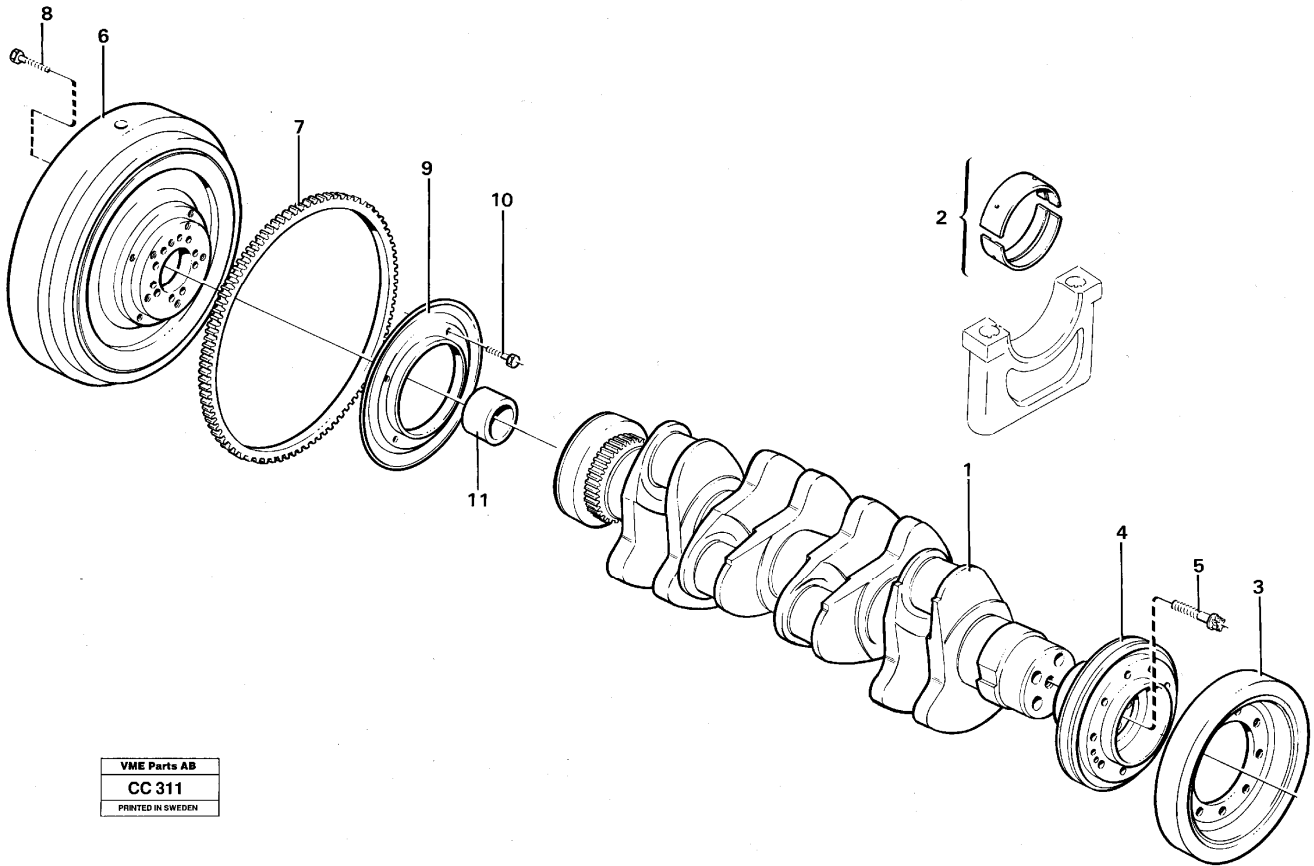


VME Parts AB  
CC 310  
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Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE20743680	1							Timing gear cover		(VOE11700356)
2	VOE20412324	12							Screw		(VOE11700357)
3	VOE20412286	1							Sealing ring		(VOE11700358)
4	VOE20534597	2							Screw		(VOE11700359)
5	VOE13955900	2							Washer		(VOE11700360)
6	VOE20405532	1							Clamp		(VOE11700361)
7	VOE11700280	2					SS	K	Sealing ring		
8	VOE20479599	2					SS		Plug		(VOE11700362)
9	VOE11700363	3							Screw		
10	VOE20459977	1					SS		Screw		(VOE11700583)
11	VOE20558927	1					OP		Plug		(VOE11700584)
12	VOE11700553	1							Cover		
13	VOE11700624	1					NS		Cover		
14	VOE20405652	1							Sealing ring		(VOE11700625)

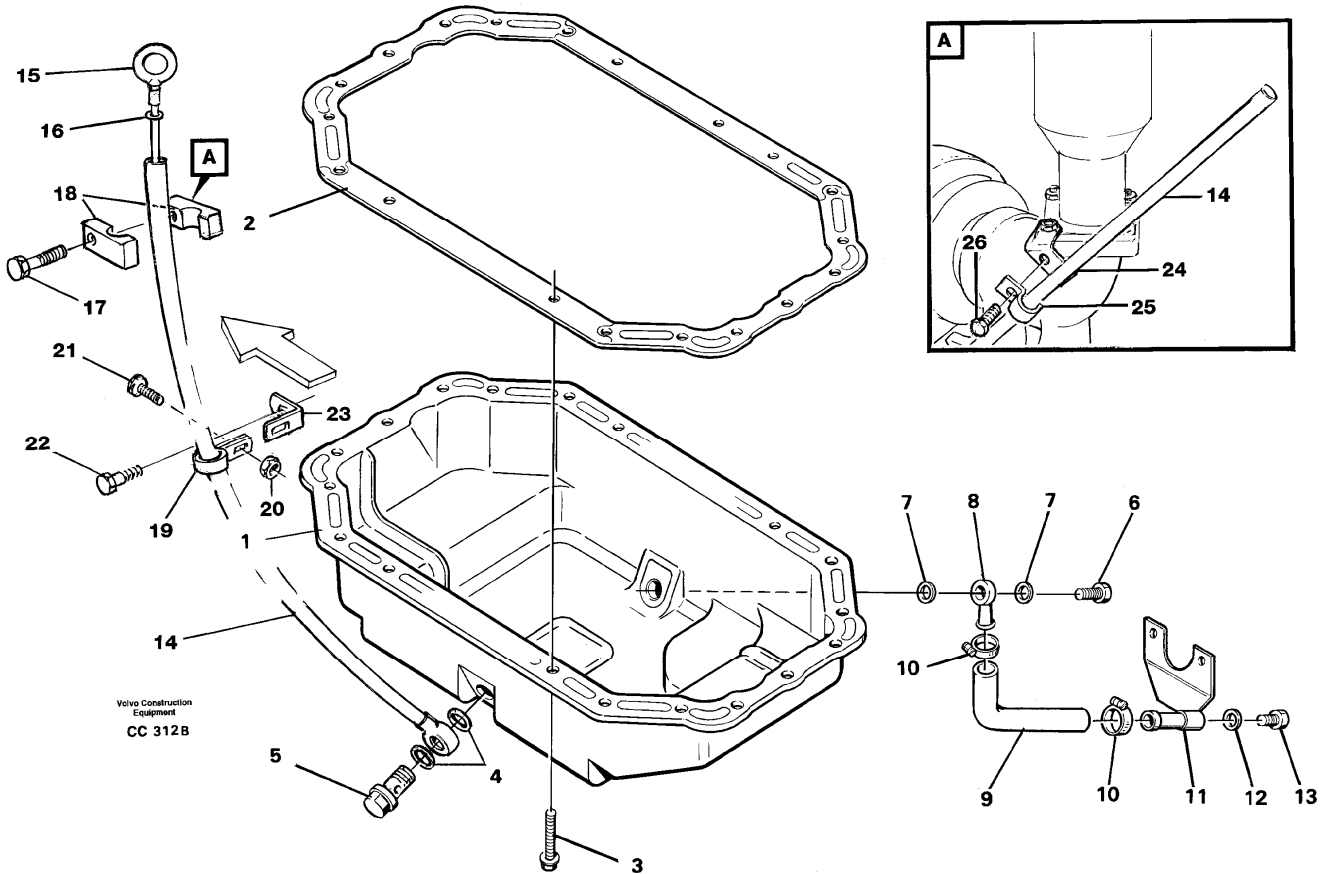


Date: <b>2014/1/23</b>	Image id: <b>CC311</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>216/100</b>	Title: <b>Crankshaft - balancing</b>



Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11700310	1					OP		Crankshaft		
2	VOE21141948	5							•Main bearing		(VOE11700311)STD
	VOE21234191	REQ							•Main bearing		(VOE11700312)84,75 mm U SZ
	VOE20405541	REQ							•Main bearing		(VOE11700313)84,50 mm U SZ
3	VOE20459925	1							Vibration absorber		(VOE11700306)
4	VOE11700308	1					OP		Pulley		
5	VOE20405724	6							Screw		(VOE11700309)
6	VOE11700319	1					OP		Flywheel		
		1							•Gear ring		
7	VOE20450830	1							•Gear		(VOE11700320)
8	VOE20450835	10							Screw		(VOE11700307)
9	VOE20450832	1							Labyrinth ring		(VOE11700321)
10	VOE20450834	4							Screw		(VOE11700322)
11	VOE11700323	1							Bearing bushing		

Date: <b>2014/1/23</b>	Image id: <b>CC312B</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>217/100</b>	Title: <b>Oil sump</b>



Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

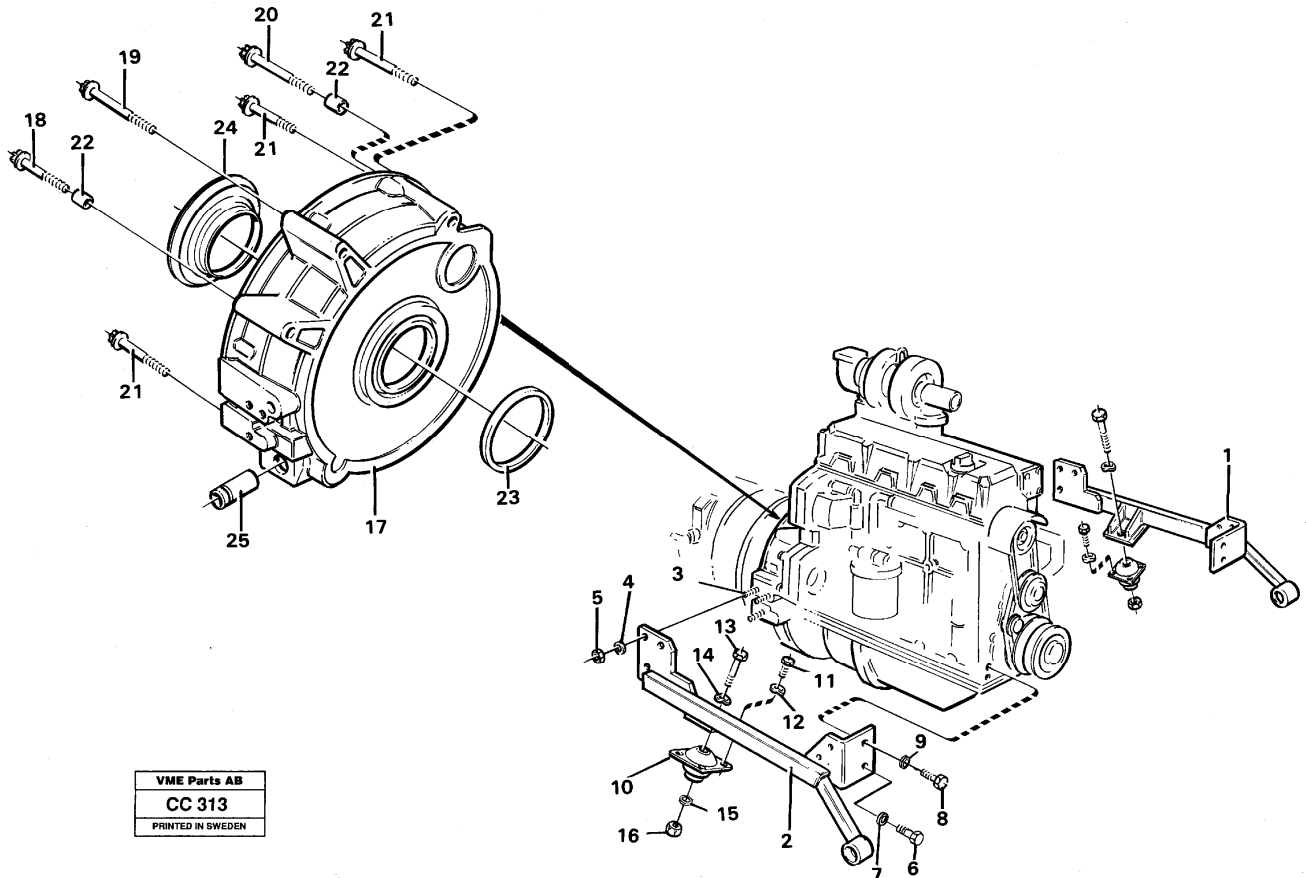
Q1-Q5	Option	Option description
Q1 11033865	VOE11033865	Low emission engine TD48GAE
Q2 STD		

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11700301	1							Oil pan		
	VOE20476106	2					SS		•Plug		(VOE11700302)
	VOE20542740	2							•Sealing ring		(VOE11700303)
2	VOE20405843	1						K	Gasket		(VOE11700305)
3	VOE20460023	26					SS		Screw		(VOE11700304)
4	VOE20542740	2						K	Sealing ring		(VOE11700303)
5	VOE11701099	1							Hollow screw		
6	VOE190714		1						Hollow screw		
7	VOE13947624		2						Plane gasket		



8	VOE1598053		1				OP	Banjo nipple		
9	VOE13961192		REQ					Hydraulic hose		L=430 mm
10	VOE943473		2					Hose clamp		
11	VOE11099284		1				NS	Nipple		
12	VOE14013069		1					Sealing washer		(VOE943908)
13	VOE944507		1					Plug		
14	VOE11701098	1					OP	Tube		
15	VOE11700807	1						Dipstick		
16	VOE20460218	1						•O-ring		(VOE11700634)
17	VOE11701105	1						Hexagon screw		
18	VOE11701104	1					SS	Retainer		E-PROD
19	VOE11701101	1						Clamp		
20	VOE11700560	1					OP	Nut		
21	VOE20460055	1						Screw		(VOE11701100)
22	VOE20460386	1					SS	Screw		(VOE11701102)L-PROD
23	VOE11701103	1					OP	Anchorage		L-PROD
24	VOE11701744	1					OP	Anchorage		L-PROD
25	VOE11701745	1					OP	Clamp		L-PROD
26	VOE15056755	1						Screw		(VOE11701746)L-PROD

Date: <b>2014/1/23</b>	Image id: <b>CC313</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>218/100</b>	Title: <b>Engine support and flywheel housing</b>



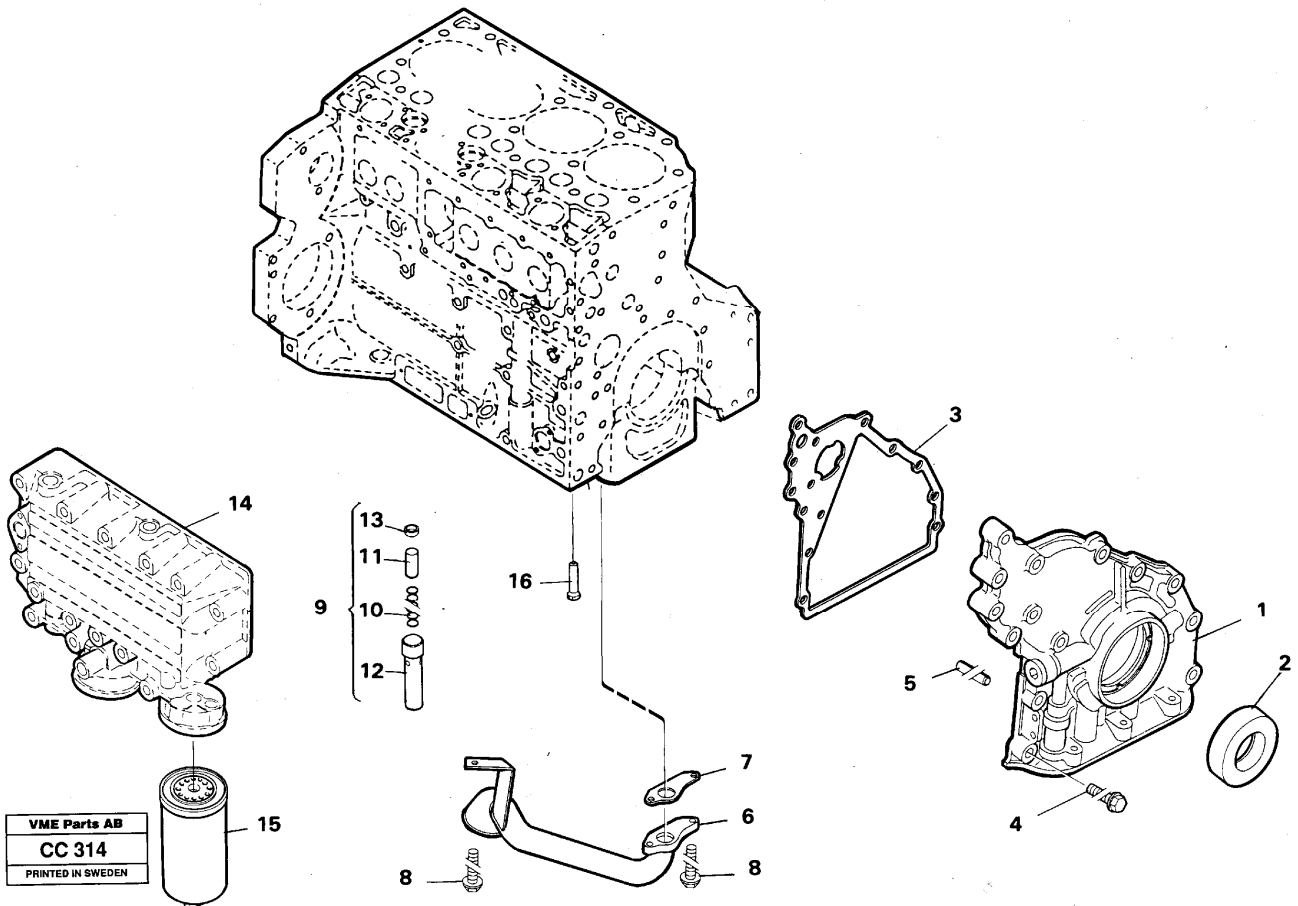
Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

Q1-Q5	Option	Option description	
Q1 STD			
Q2 11033865	VOE11033865	Low emission engine TD48GAE	

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11099123	1					OP		Bracket		LH
2	VOE11099124	1					OP		Bracket		RH
3	VOE953098	6							Stud		
4	VOE13955897	6							Washer		
5	VOE13971084	6							Lock nut		
6	VOE955364	2							Hexagon screw		
7	VOE13955900	2							Washer		
8	VOE13970970	2							Hexagon screw		
9	VOE13955897	2							Washer		

10	VOE11099280	2					OP		Rubber cushion		
11	VOE13970948	4							Hexagon screw		
12	VOE976945	4							Washer		(VOE13960148)
13	VOE959285	2							Allen Hd Screw		
14	VOE13955900	2							Washer		
15	VOE11015657	2							Washer		(VOE4746470)
16	VOE945884	2							Lock nut		
17	VOE11700591		1				OP		Flywheel housing		
18	VOE20405714		1						Screw		(VOE11700595)
19	VOE20405715		1						Screw		(VOE11700596)
20	VOE20459985		1						Screw		(VOE11700597)
21	VOE20405710		3						Screw		(VOE11700598)
22	VOE20405887		2						Bushing		(VOE11700594)
23	VOE20450786		1						Sealing ring		(VOE11700599)
24	VOE20450784		1						Labyrinth ring		(VOE11700592)
25	VOE11700593		1						Return pipe		

Date: <b>2014/1/23</b>	Image id: <b>CC314</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>220/100</b>	Title: <b>Lubricating oil system</b>



Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

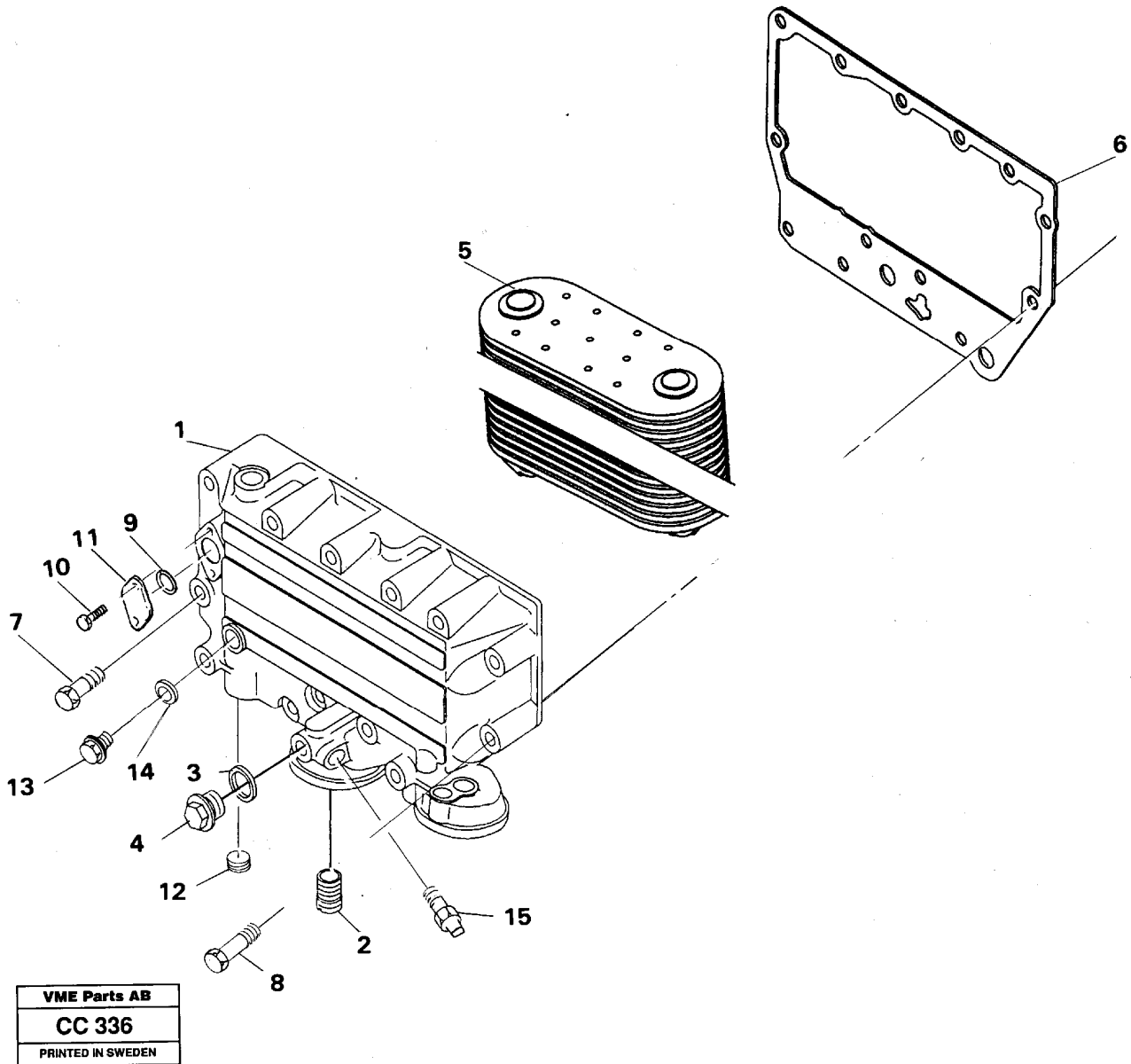
Q1-Q5	Option	Option description	
Q1 11033865	VOE11033865	Low emission engine TD48GAE	

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11710941	1					OP		Oil pump		See footnote 1318)
2	VOE20412568	1							Sealing ring		(VOE11700270)
3	VOE11700265	1						K	Gasket		(VOE11700265)
4	VOE20412324	14							Screw		(VOE11700266)
5	VOE11700267	1					OP		Spring pin		
6	VOE20405635	1							Suction pipe		(VOE11700389)
7	VOE20405888	1						K	Gasket		(VOE11700391)
8	VOE13949578	3							Screw		(VOE11700390)
9	VOE11700271	1							Delivery valve		

10	VOE20405896	1							•Compression spring		(VOE11700272)
11	VOE11700273	1					NS		•Valve Peg		
12	VOE11700274	1					SE		•Sleeve		
13	VOE20405904	1							•Ring		(VOE11700275)
14		1							Oil cooler		See ref 223/100
15	VOE11700375	1							Oil filter		
16	VOE20405561	4							Piston		(VOE11700268)

1318) Front cover with oil pump

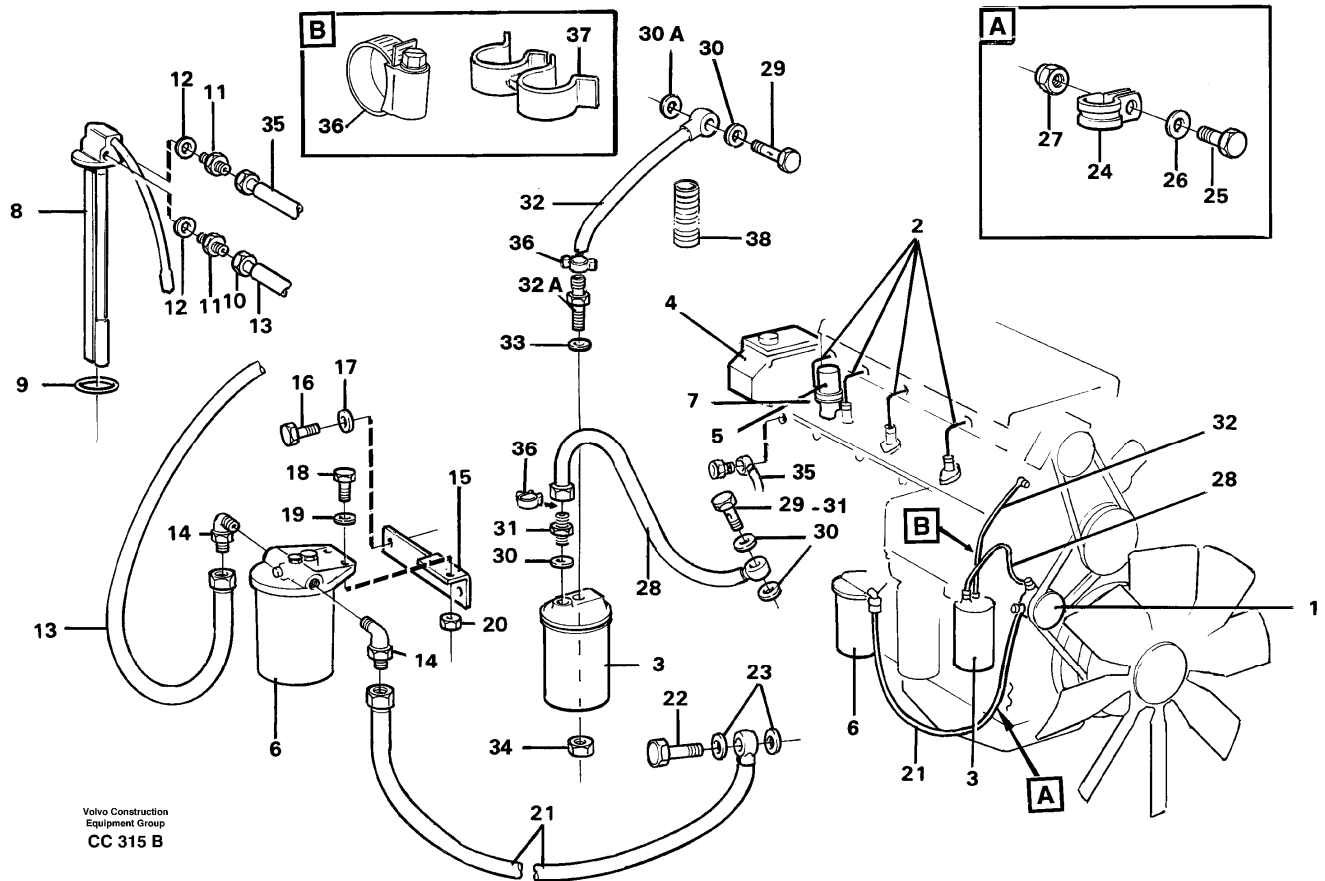
Date: <b>2014/1/23</b>	Image id: <b>CC336</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>223/100</b>	Title: <b>Oil cooler</b>



Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE11700386	1					SS		Housing		
2	VOE11700387	1					OP		•Nipple		
3	VOE11700354	1					SS		•O-ring		
4	VOE20460289	1							•Hollow screw		(VOE11700388)
5	VOE20715675	1							Oil Cooler		(VOE11700385)
6	VOE20405747	1							Gasket		(VOE11700382)
7	VOE20405917	12							Screw		(VOE11700381)

8	VOE20405672	2						Screw		(VOE11700383)
9	VOE11700608	1					OP	O-ring		
10	VOE20460241	2						Screw		(VOE11700492)
11	VOE11700609	1						Cover		
12	VOE11700377	2					SS	Plug		
13	VOE20476106	1					SS	Plug		(VOE11700302)
14	VOE20476105	1						Seal Ring		(VOE11700376)
15	VOE20459887	1						Sensor		(VOE11700574)

Date: <b>2014/1/23</b>	Image id: <b>CC315B</b>	Catalogue: <b>97768</b>	Model: <b>EL70C</b>
Brand: <b>Volvo BM</b>	Serial: <b>4001-5000</b>	Group/Section: <b>230/100</b>	Title: <b>Fuel system</b>



Section option	Kit	Option description
VOE11033865		Low emission engine TD48GAE

Q1-Q5	Option	Option description	
Q1 11033865	VOE11033865	Low emission engine TD48GAE	
Q2 STD			

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1		1							Fuel pump		See ref 233/100
2		1							Pipe, injector		See ref 237/100
3	VOE11706667	1							Fuel filter		(VOE11700463)
4		1							Regulator		See ref 236/200
5		1							Stop solenoid		See ref 273/100
6		1							Water separator		See ref 233/200
7		1							Control rod		See ref 236/300
8	VOE11039526		1				SS		Fuel level sensor		
9	VOE8151926		1						O-ring		



10	VOE13977692		2					Nipple		
11	VOE13946602		2					Nipple		(VOE4935613)
12	VOE13969011		2					Gasket		
13	VOE11099129		1					Fuel hose		
14	VOE13977772		2				OP	Elbow nipple		
15	VOE11099371		1				OP	Bracket		(VOE11099246)
16	VOE13955295		2					Screw		
17	VOE13955894		2					Washer		
18	VOE13970949		2					Hexagon screw		
19	VOE976945		2					Washer		(VOE13960148)
20	VOE971071		2					Hexagon nut		
21	VOE11099254		1				OP	Fuel hose		
22	VOE941686		1					Hollow screw		
23	VOE13947622		2					Plane gasket		
24	VOE13949747		1					Clamp		
25	VOE955297		1					Hexagon screw		
26	VOE13955894		1					Washer		
27	VOE946036		1					Lock nut		
28	VOE20405766	1						Hose		(VOE11702723)
29	VOE7025167	2						Hollow screw		(VOE11700477)E- PROD
	VOE20405562	1						Hollow screw		(VOE11702727)L-PROD
30	VOE11700280	5					SS K	Sealing ring		E-PROD
	VOE11700280	3					SS	Sealing ring		L-PROD
30A	VOE20405769	1						Sealing ring		(VOE11702728)L-PROD
31	VOE11700481	1					OP	Nipple		E-PROD
	VOE20405767	2						Hose nipple		(VOE11702725)L-PROD
32	VOE11702726	1					SS	Fuel hose		
32A	VOE11702729	1					SS	Sleeve		L-PROD
33	VOE13947622	1						K Plane gasket		(VOE11700479)
34	VOE11700480	1					OP	Nut		E-PROD
	VOE11702730	1					OP	Nut		L-PROD
35	VOE11099130	1					OP	Fuel hose		See ref 237/100
36	VOE11702724	3						Hose clamp		L-PROD
37	VOE20515411	1						Hose retainer		(VOE11702731)L-PROD
38	VOE20405763	1						Tube		(VOE11702732)L-PROD

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