Product: ECR145F L5 Volvo Excavators Part Manual1
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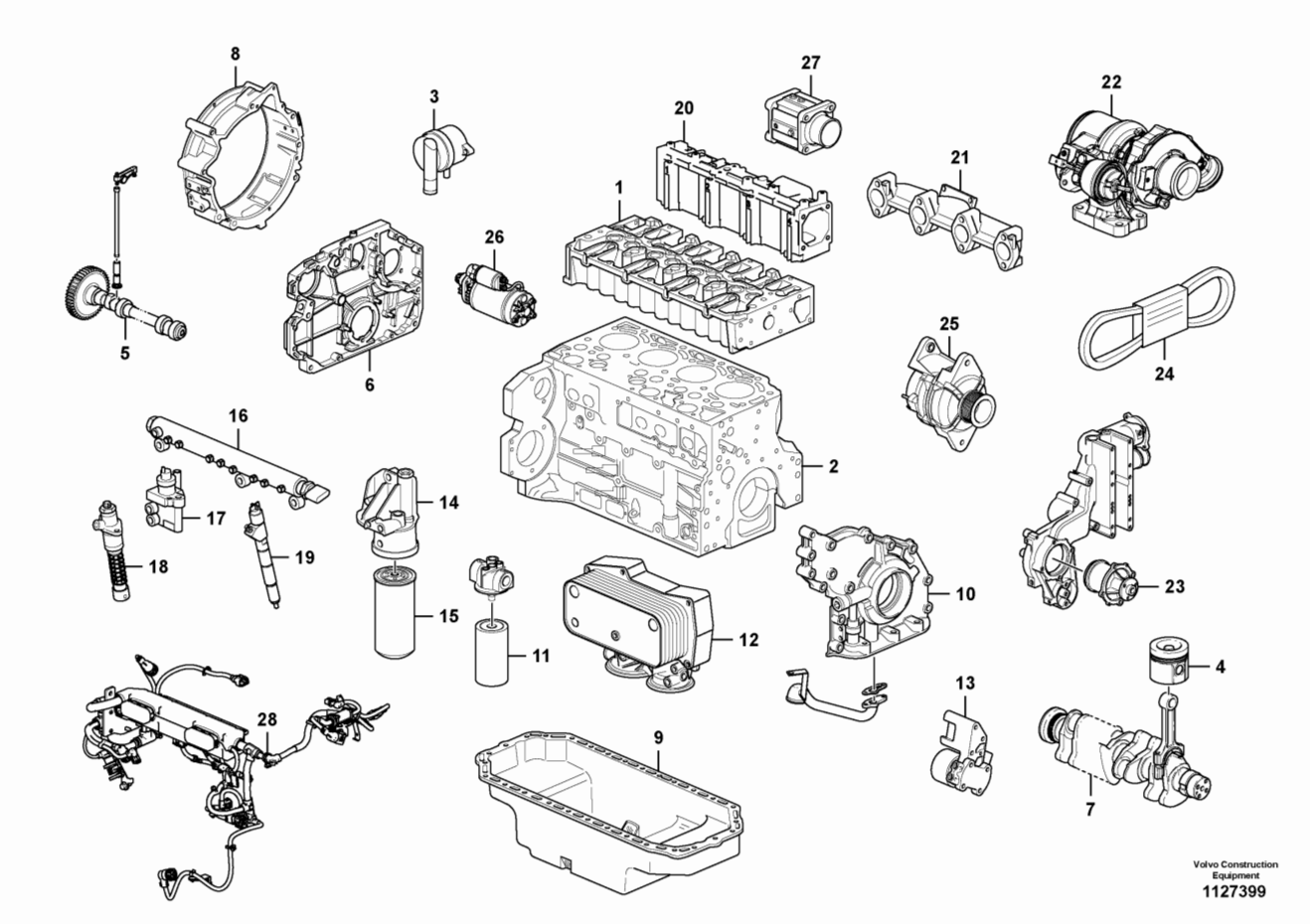
VOLVO

PROSIS Part Information

Date: **5/23/2026**	Image id: **1127399**	Catalogue: **20982**	Model: **ECR145F L5**
Brand: **Volvo**	Serial: **410011-**	Group/Section: **210/100**	Title: **Engine 53713241**



Section option	Kit	Option description
VOE53713241		Engine Installation KOR STAGE V

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
	VOE53284391	1							Engine		D4J KSV 90KW
1		1							•Cylinder head		See ref 211/100
2		1							•Cylinder block		See ref 212/100
3		1							•Crankcase ventilation		See ref 212/200
4		4							•Piston		See ref 213/100
5		1							•Valve mechanism		See ref 214/100
6		1							•Timing gear casing		See ref 215/100
7		1							•Crankshaft		See ref 216/100
8		1							•Flywheel Hsg		See ref 216/200
9		1							•Oil sump		See ref 217/100
10		1							•Lubricating system		See ref 221/100
11		1							•Oil filter		See ref 222/100

Sample manual. Download All 969 pages at:
https://www.arepairmanual.com/downloads/ecr145f-l5-volvo-excavators-part-manual1/

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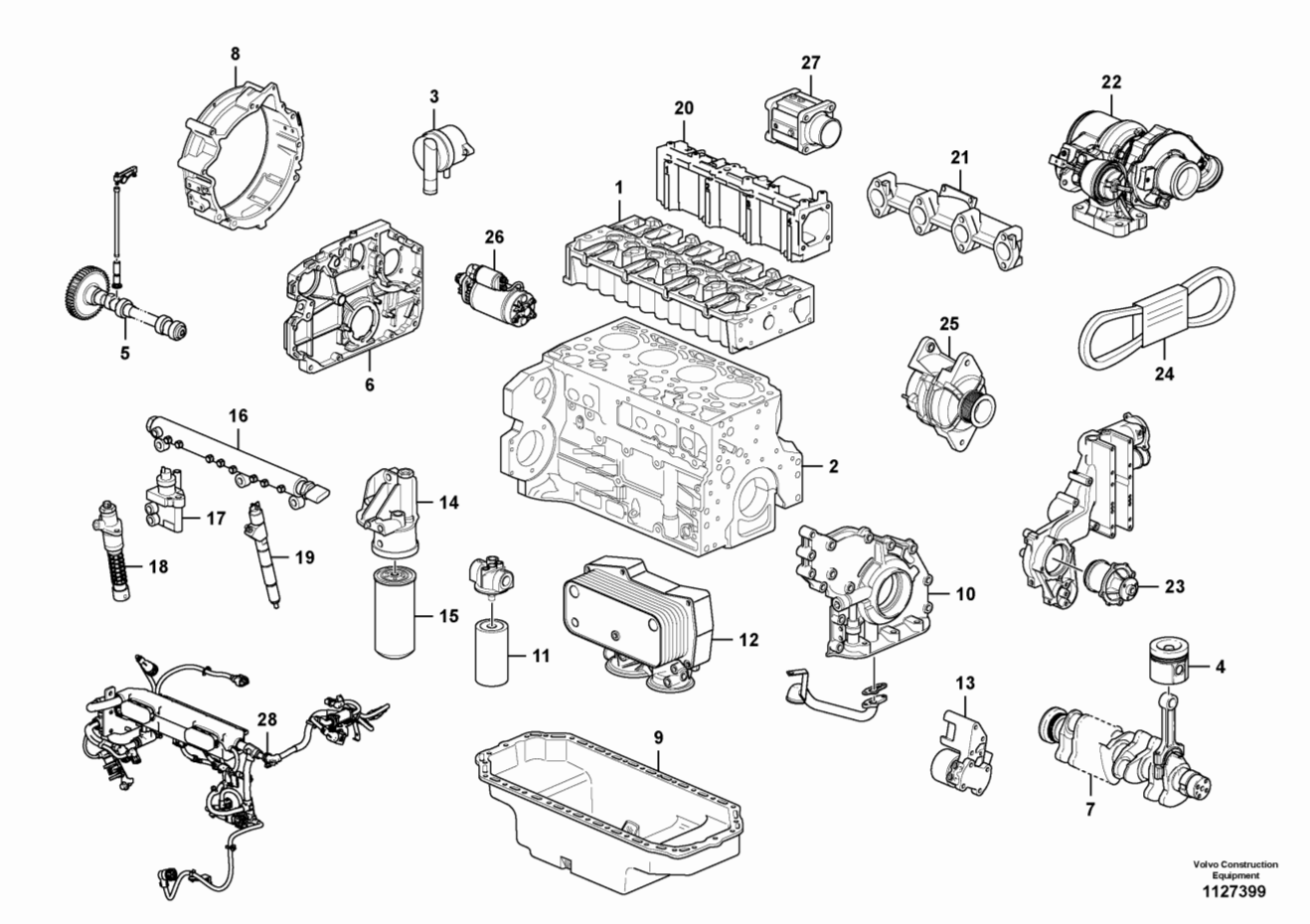
12		1							•Oil cooler		See ref 223/100
13		1							•Fuel pump		See ref 233/100
14		1							•Fuel Filter Housing		See ref 233/200
15		1							•Fuel Filter		See ref 233/200
16		1							•Rail		See ref 237/100
17		1							•Regulator		See ref 237/100
18		2							•Pump Unit		See ref 237/100
19		4							•Injector		See ref 237/100
20		1							•Inlet Manifold		See ref 251/100
21		1							•Exhaust manifold		See ref 251/200
22		1							•Turbocharger		See ref 255/100
23		1							•Coolant Pump		See ref 262/100
24		1							•Belt Xmsn		See ref 263/100
25		1							•Alternator		See ref 321/100
26		1							•Starter motor		See ref 331/100
27		1							•Pre-heater		See ref 333/100
28		1							•Cable harness		See ref 286/200

Sample manual. Download All 969 pages at:
https://www.arepairmanual.com/downloads/ecr145f-l5-volvo-excavators-part-manual1/

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1127399**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**210/200**	**Engine 53713238**



Section option	Kit	Option description
VOE53713238		Engine Installation NA

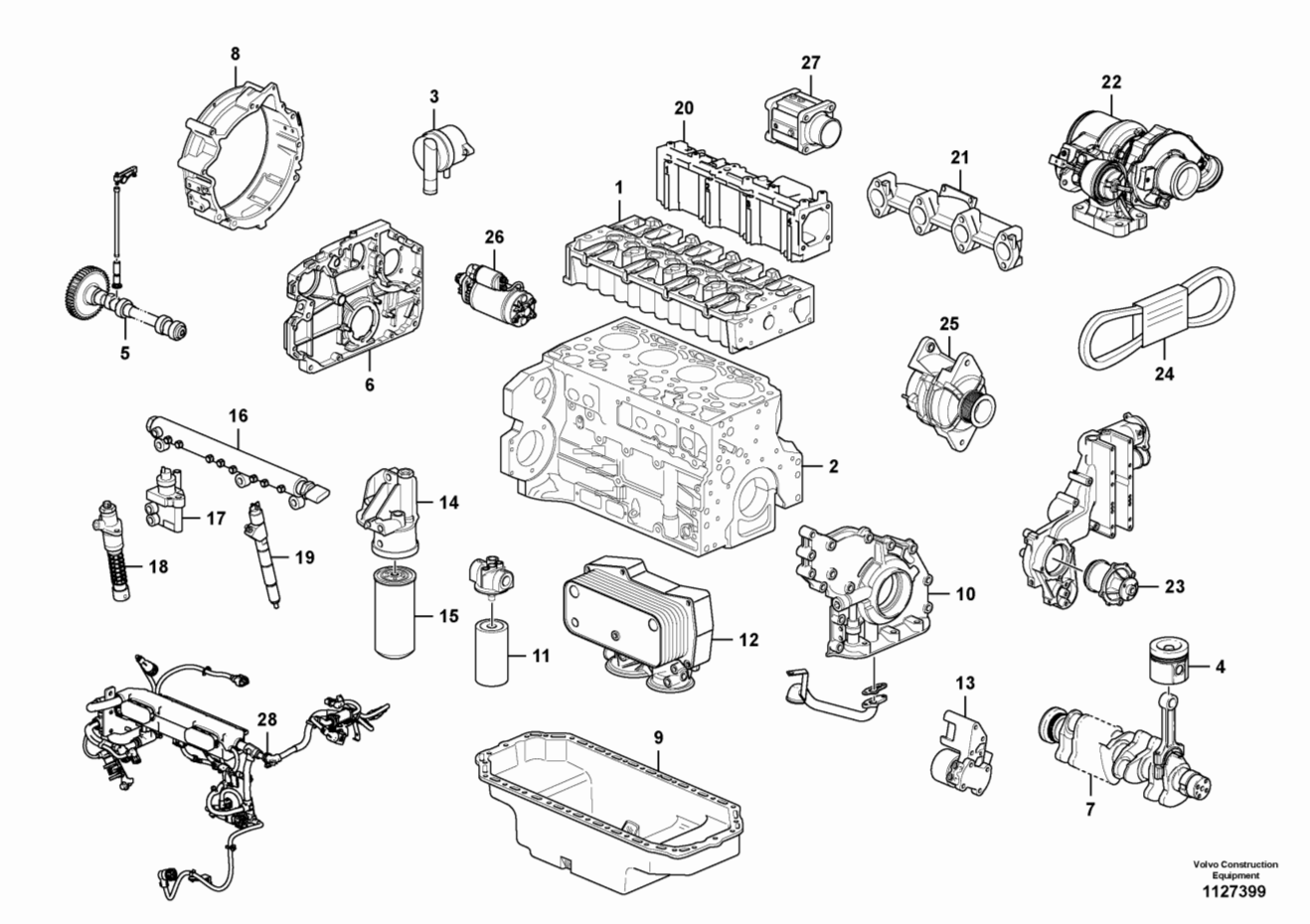
Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
	VOE53284407	1							Engine		D4J T4F 90KW
1		1							•Cylinder head		See ref 211/100
2		1							•Cylinder block		See ref 212/100
3		1							•Crankcase ventilation		See ref 212/200
4		4							•Piston		See ref 213/100
5		1							•Valve mechanism		See ref 214/100
6		1							•Timing gear casing		See ref 215/100
7		1							•Crankshaft		See ref 216/100
8		1							•Flywheel Hsg		See ref 216/200
9		1							•Oil sump		See ref 217/100
10		1							•Lubricating system		See ref 221/100
11		1							•Oil filter		See ref 222/100

12		1							•Oil cooler		See ref 223/100
13		1							•Fuel pump		See ref 233/100
14		1							•Fuel Filter Housing		See ref 233/200
15		1							•Fuel Filter		See ref 233/200
16		1							•Rail		See ref 237/100
17		1							•Regulator		See ref 237/100
18		2							•Pump Unit		See ref 237/100
19		4							•Injector		See ref 237/100
20		1							•Inlet Manifold		See ref 251/100
21		1							•Exhaust manifold		See ref 251/200
22		1							•Turbocharger		See ref 255/100
23		1							•Coolant Pump		See ref 262/100
24		1							•Belt Xmsn		See ref 263/100
25		1							•Alternator		See ref 321/100
26		1							•Starter motor		See ref 331/100
27		1							•Pre-heater		See ref 333/100
28		1							•Cable harness		See ref 286/200

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1127399**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**210/300**	**Engine 53713239**



Section option	Kit	Option description
VOE53713239		Engine Installation EU STAGE V

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
	VOE53284421	1					SS		Engine		D4J STV 90KW, REMAN VOE9017511344
	VOE17511344	1							Engine		See footnote 4902) , REMAN VOE9017511344
1		1							•Cylinder head		See ref 211/100
2		1							•Cylinder block		See ref 212/100
3		1							•Crankcase ventilation		See ref 212/200
4		4							•Piston		See ref 213/100
5		1							•Valve mechanism		See ref 214/100
6		1							•Timing gear casing		See ref 215/100
7		1							•Crankshaft		See ref 216/100

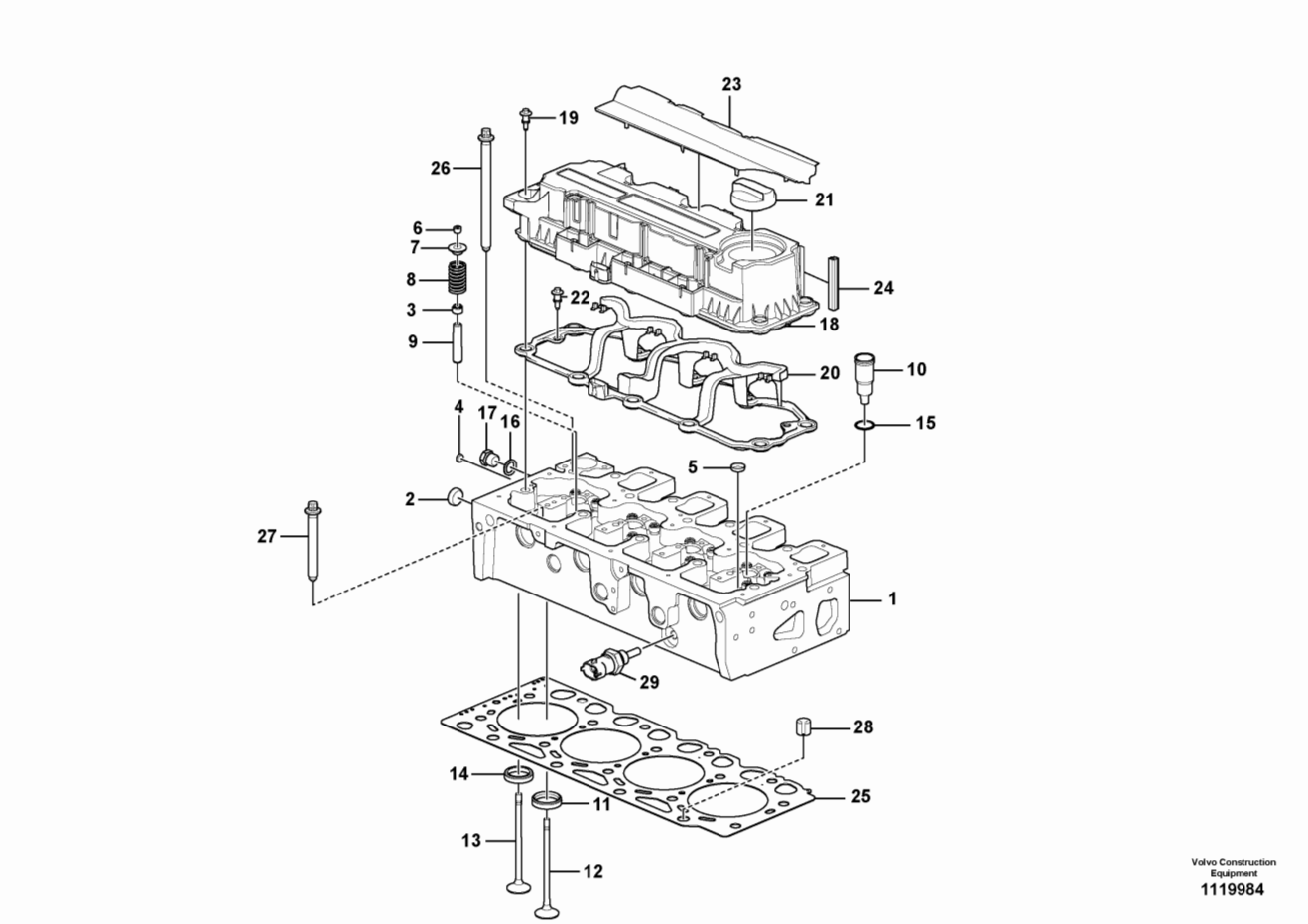
8		1							•Flywheel Hsg		See ref 216/200
9		1							•Oil sump		See ref 217/100
10		1							•Lubricating system		See ref 221/100
11		1							•Oil filter		See ref 222/100
12		1							•Oil cooler		See ref 223/100
13		1							•Fuel pump		See ref 233/100
14		1							•Fuel Filter Housing		See ref 233/200
15		1							•Fuel Filter		See ref 233/200
16		1							•Rail		See ref 237/100
17		1							•Regulator		See ref 237/100
18		2							•Pump Unit		See ref 237/100
19		4							•Injector		See ref 237/100
20		1							•Inlet Manifold		See ref 251/100
21		1							•Exhaust manifold		See ref 251/200
22		1							•Turbocharger		See ref 255/100
23		1							•Coolant Pump		See ref 262/100
24		1							•Belt Xmsn		See ref 263/100
25		1							•Alternator		See ref 321/100
26		1							•Starter motor		See ref 331/100
27		1							•Pre-heater		See ref 333/100
28		1							•Cable harness		See ref 286/200

4902) Aftermarket engine (Replacement version)

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1119984**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**211/100**	**Cylinder head with fitting parts 53284391, 53284407, 53284421**



Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE22813338	1							Cylinder head		REMAN VOE9022813338
2	VOE20834024	4							•Cap plug		
3	VOE20459855	16							•Valve seal		
4	VOE20914266	2							•Core Plug		
5	VOE20412733	10							•Core plug		
6	VOE23699488	32							•Valve cotter		(VOE20459857)
7	VOE20788860	16							•Cap		
8	VOE21775124	16							•Valve spring		
9	VOE22494872	16							•Valve guide		See footnote 4914)
10	VOE20903104	4							•Sleeve		

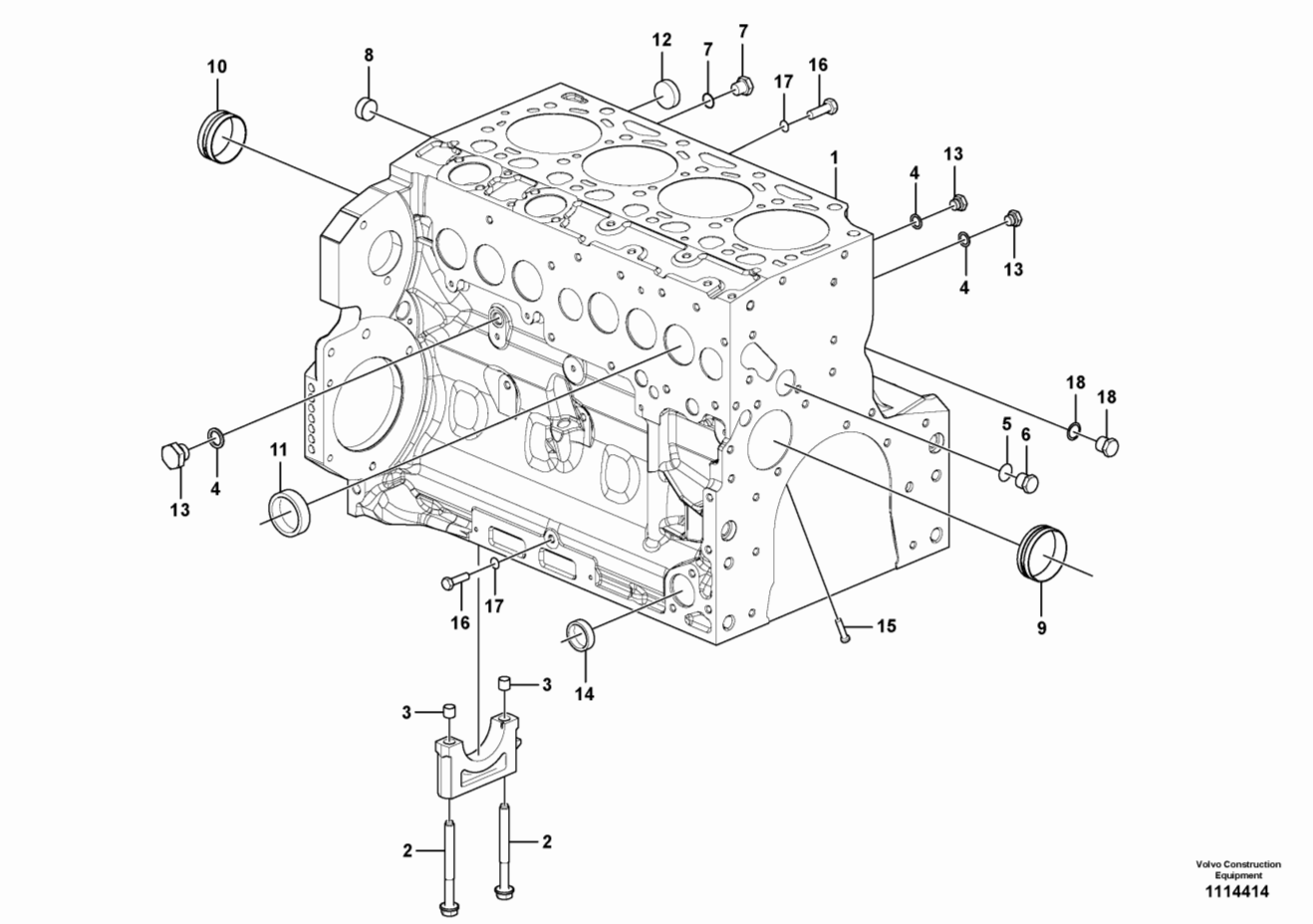
11	VOE21775154	8							•Valve insert		
12	VOE22810953	8							•Inlet valve		
13	VOE22810655	8							•Exhaust valve		
14	VOE21775149	8							•Valve insert		
15	VOE20903092	4							•O-ring		
16	VOE13969011	1							•Gasket		
17	VOE945065	1							•Plug		
18	VOE22537568	1							Valve cover		
19	VOE21774068	12							•Shoulder screw		
20	VOE23185128	1							Gasket		
21	VOE20412589	1							Filler cap		
22	VOE21774068	2							Shoulder screw		
23	VOE21791383	1							Cover strip		
24	VOE21775052	2							Sealing cup		
25	VOE21791854	1							Gasket		(VOE22343414)THICK = 1.40 MM
25	VOE21791858	1							Gasket		THICK = 1.50 MM
25	VOE21791807	1							Gasket		(VOE22343379)THICK = 1.30 MM
26	VOE21774869	14							Flange screw		
27	VOE20459838	4							Bolt		
28	VOE20459839	2							Bushing		
29	VOE21531072	1							Temperature sensor		SE2606

4914) The final machining of the valve guides needs to be performed in combinati on with the related cylinder head and valves.

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1114414**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**212/100**	**Cylinder block 53284391, 53284407, 53284421**



Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

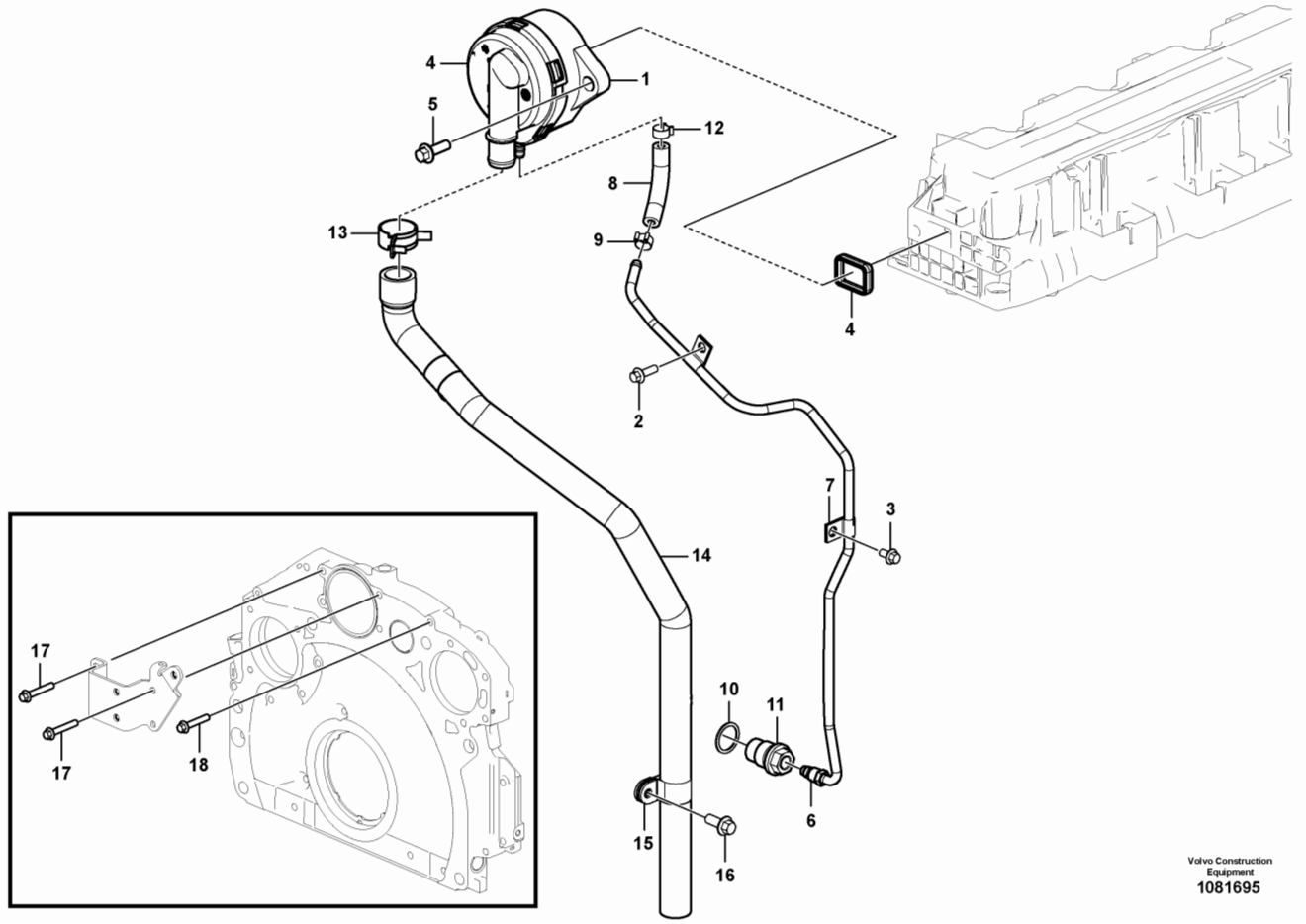
Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE22591842	1							Crankcase		
2	VOE20460006	10							Screw		
3	VOE20460001	10							Bushing		
4	VOE993677	3							Gasket		
5	VOE993680	1							Gasket		
6	VOE20998904	1							Plug		
7	VOE24131681	1							Hollow screw		
7	VOE60114081	1							•Plug		
7	VOE993677	1							•Gasket		
8	VOE20785813	1							Plug		
9	VOE22472470	4							Bearing bushing		

10	VOE22472464	1							Bearing bushing		(VOE21774591)
11	VOE20405721	6							Core plug		
12	VOE20412745	4							Core plug		
13	VOE60112839	3							Plug		
14	VOE20412745	1							Core plug		
15	VOE20405561	4							Piston		
16	VOE20459899	2							Screw		
17	VOE20482349	2							Sealing ring		
18	VOE24131681	1							Hollow screw		
18	VOE60114081	1							•Plug		
18	VOE993677	1							•Gasket		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1081695**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**212/200**	**Crankcase ventilation 53284391, 53284407, 53284421**



Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

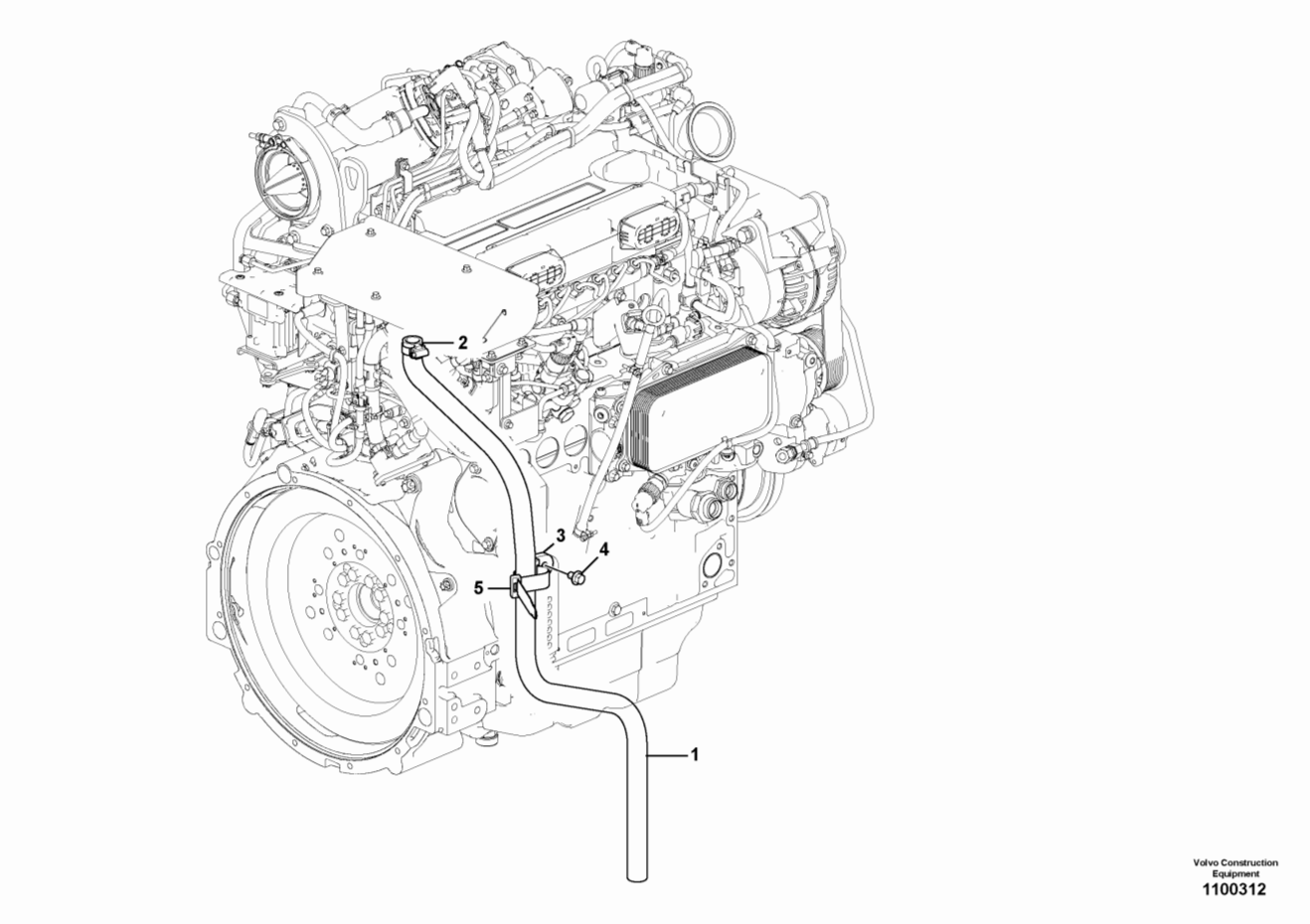
Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE20930510	1							Oil separator		
2	VOE20405885	1							Screw		
3	VOE20405729	1							Screw		
4	VOE21038626	1							Plane gasket		
5	VOE20405504	2							Screw		
6	VOE22431180	1							Leak-off line		
7	VOE20798831	2							•Attaching clamp		
8	VOE20971632	1							•Rubber hose		
9	VOE996794	1							•Hose clamp		
10	VOE20460026	1							Sealing ring		
11	VOE21496705	1							Drain valve		

12	VOE996794	1							Hose clamp		
13	VOE20405755	1							Clamping band		
14	VOE23218107	1							Tube		(VOE21774609)
15	VOE20798837	2							Attaching clamp		
16	VOE20405885	2							Screw		
17	VOE20405672	4							Screw		
18	VOE20450801	1							Screw		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1100312**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**212/300**	**Crankcase ventilation 53713238, 53713239, 53713241**



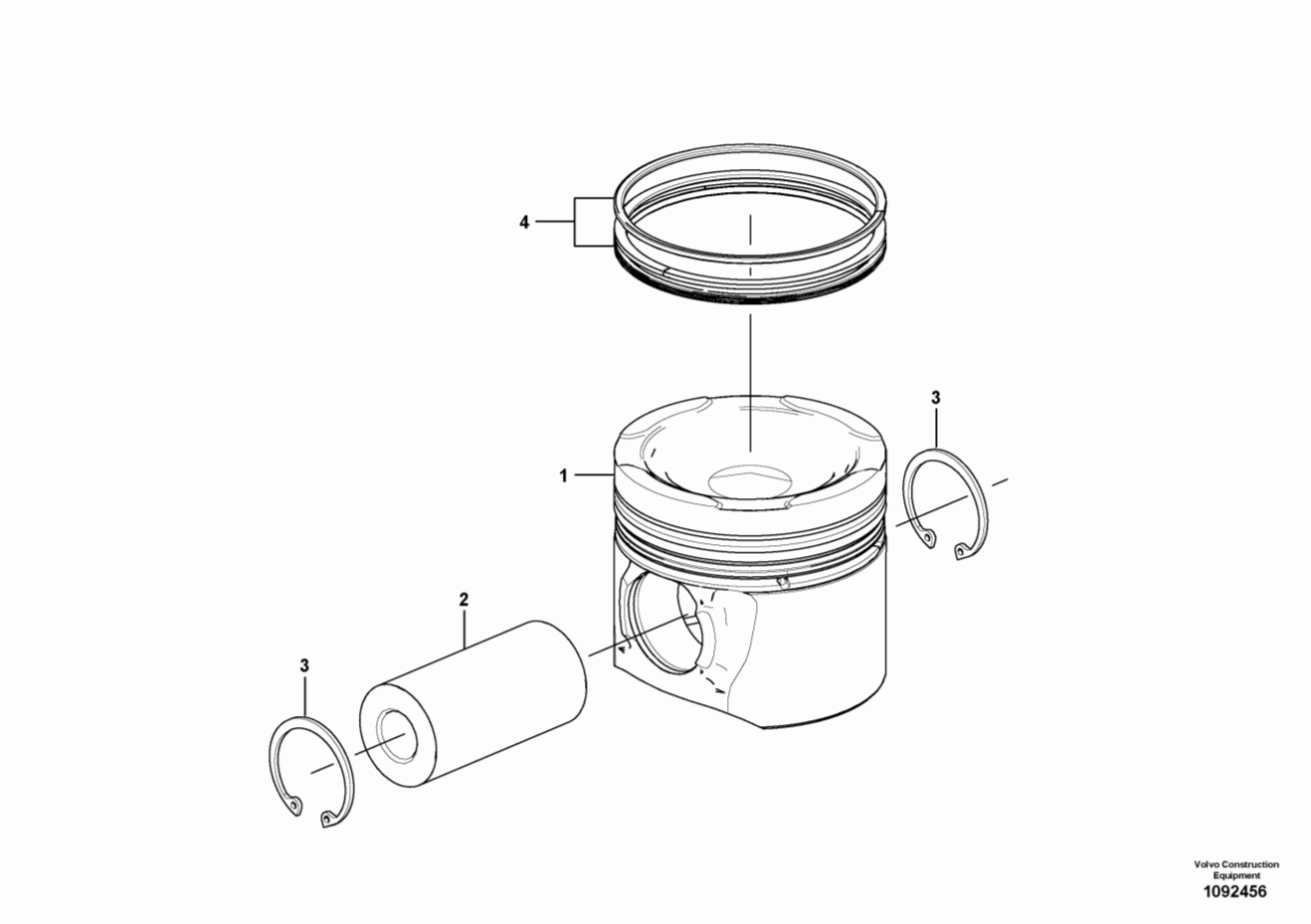
Section option	Kit	Option description
VOE53713238		Engine Installation NA
VOE53713239		Engine Installation EU STAGE V
VOE53713241		Engine Installation KOR STAGE V

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE14880434	1							Cooling hose		
2	VOE943475	1							Hose clamp		
3	VOE14558808	1							Strip clamp		
4	VOE60113080	1							Flange screw		
5	VOE14558809	1							Strip clamp		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1092456**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**213/100**	**Piston and conrod assemblies 53284391, 53284407, 53284421**



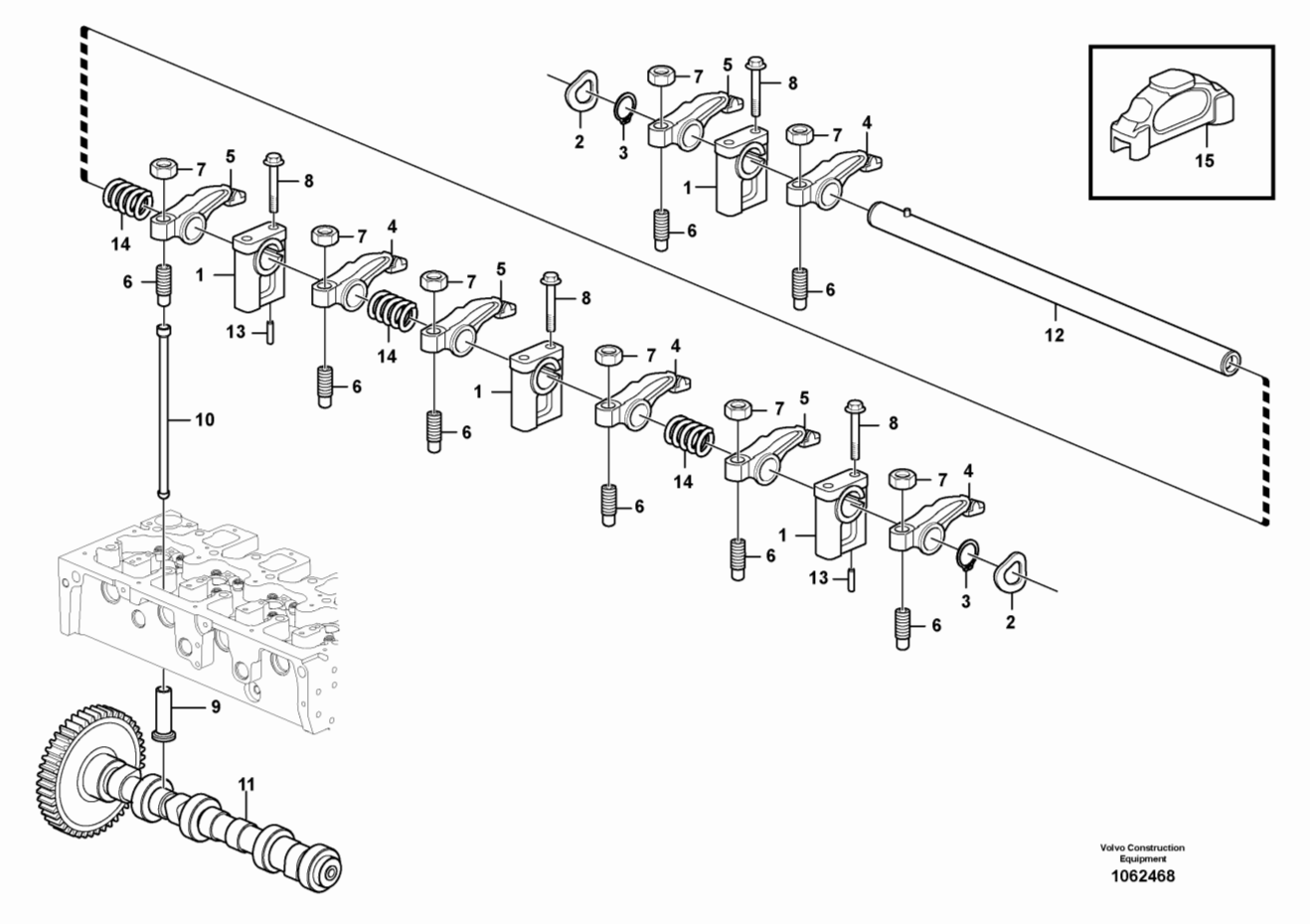
Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE22920103	1							Piston		
2	VOE22385327	1							•Gudgeon pin		
3	VOE914523	2							•Retaining ring		
4	VOE22919257	1							•Piston ring kit		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1062468**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**214/100**	**Valve mechanism 53284391, 53284407, 53284421**



Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

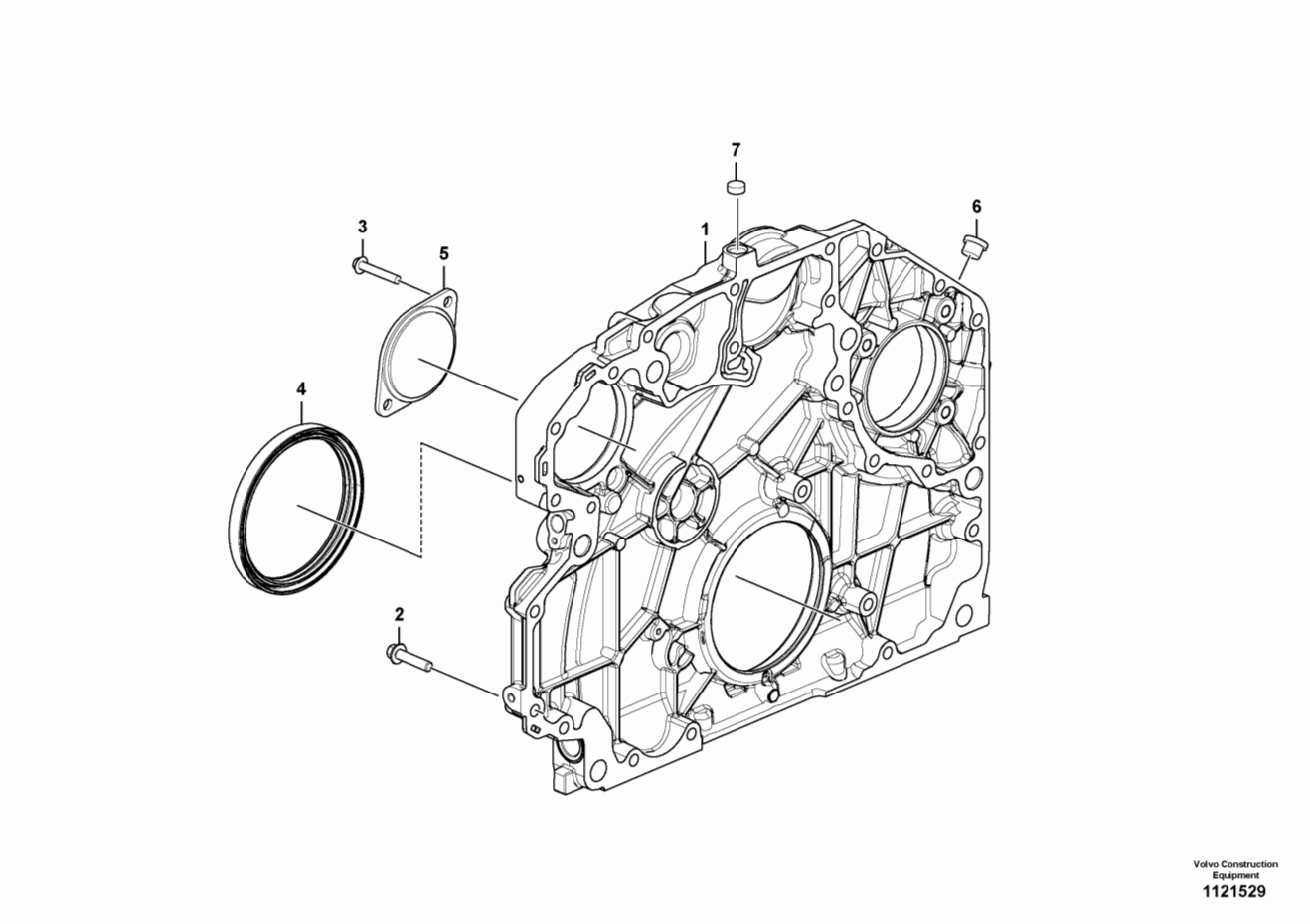
Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE21770895	4							Bracket		
2	VOE21774733	2							Raceway washer		
3	VOE914456	2							Retaining ring		
4	VOE22472721	4							Rocker arm		
5	VOE22472731	4							Rocker arm		
6	VOE22706505	8							Adjusting screw		
7	VOE11700373	8							Nut		
8	VOE20405723	8							Screw		
9	VOE22472758	8							Tappet		
10	VOE23010491	8							Push rod		(VOE21775020)
11	VOE22373027	1							Camshaft		

12	VOE21791217	1							Rocker arm shaft		
13	VOE996089	2							Spring pin		
14	VOE20800018	3							Compression spring		
15	VOE21775113	8							Valve bridge		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1121529**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**215/100**	**Timing gear casing 53284391, 53284407, 53284421**



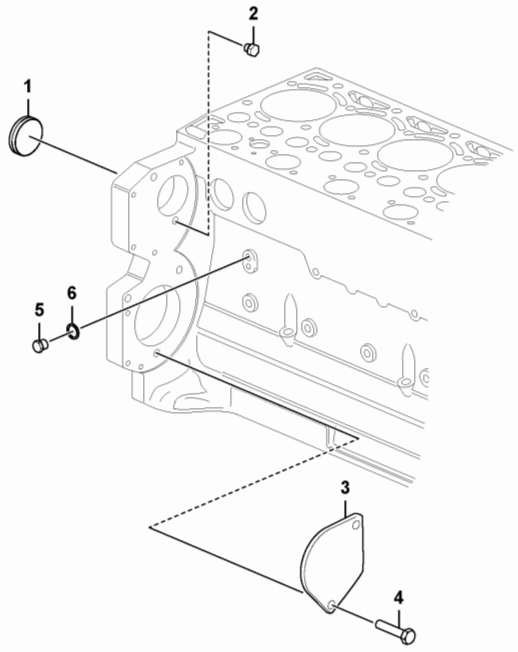
Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE23377567	1							Flywheel housing		
2	VOE996777	12							Flange screw		
3	VOE20450801	4							Screw		
4	VOE24065172	1							Lip seal		
5	VOE22610639	1							Cover		
6	VOE21899380	1							Protecting cap		
7	VOE20951211	1							Cap plug		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1127240**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**215/200**	**Pump drive power take-off 53284391, 53284407, 53284421**



Volvo Construction Equipment
1127240

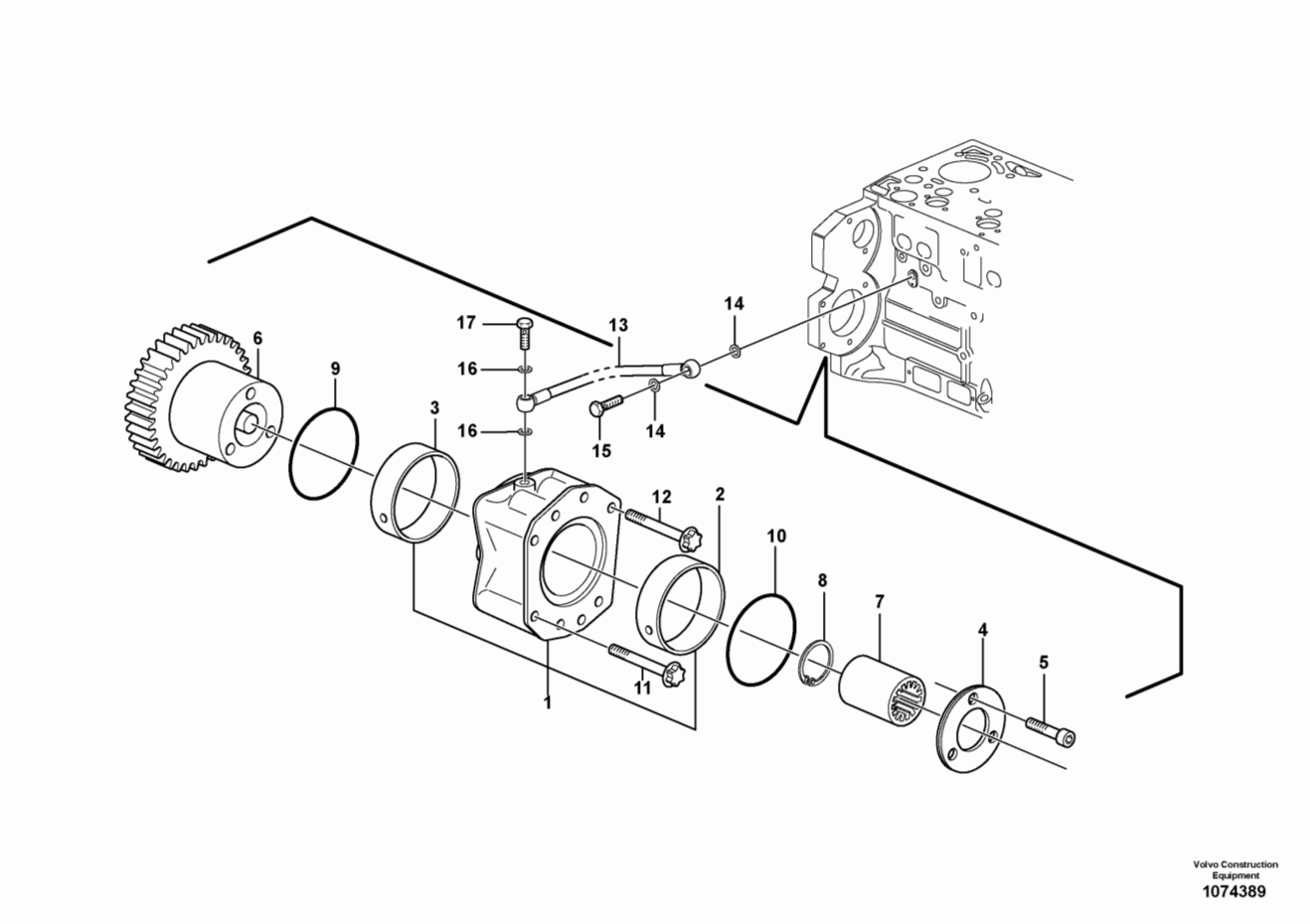
Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE60112856	1							Cap plug		
2		2					NS		Plug		
3	VOE22740676	1							Cover		
4	VOE60113409	2							Flange screw		
5	VOE60112839	1							Plug		
6	VOE993677	1							Gasket		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1074389**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**215/300**	**Pump drive power take-off 53713320**



Section option	Kit	Option description
VOE53713320		Hydraulics for slope/rotator equipment X3

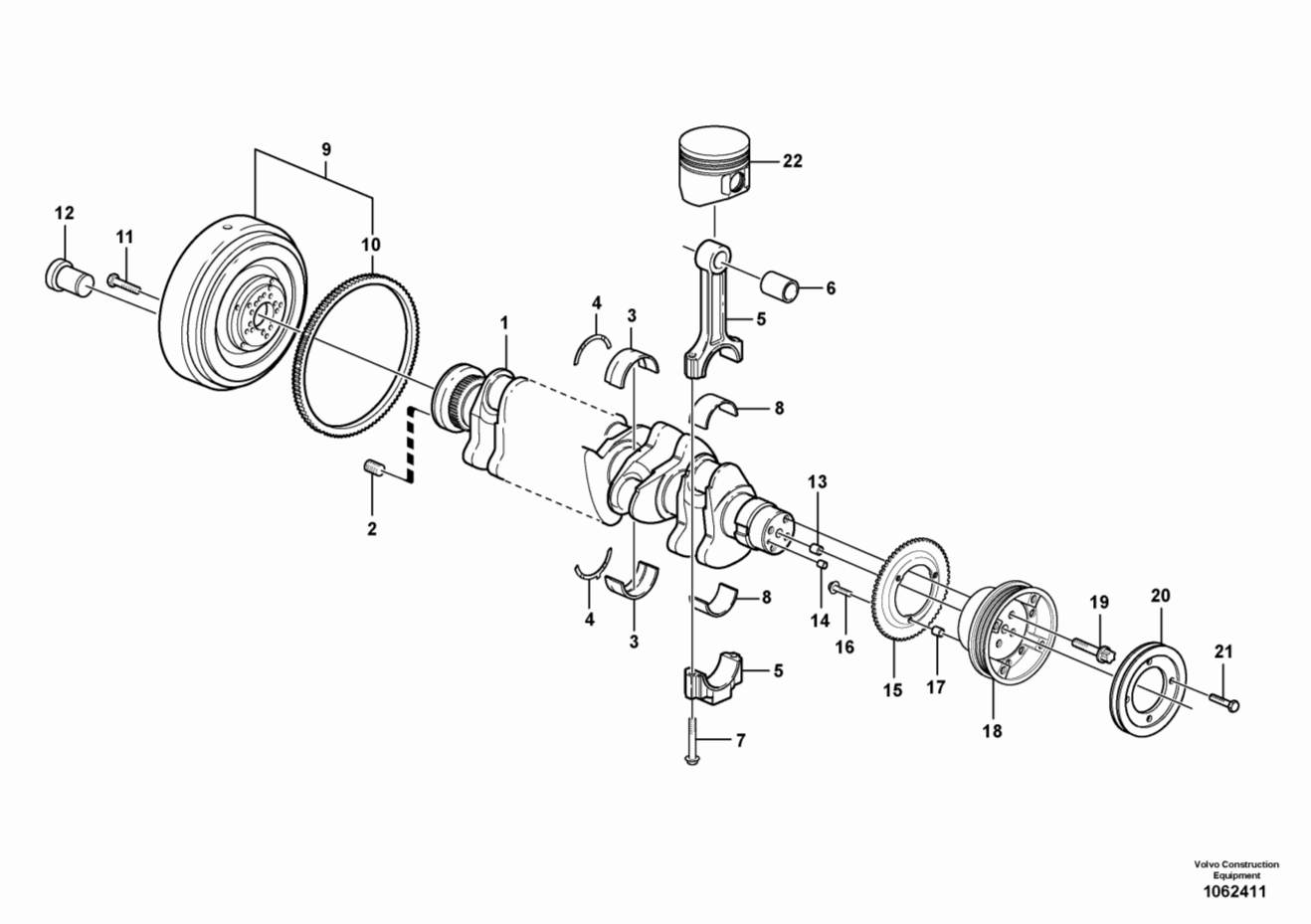
Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
	VOE21664632	1							Kit		
	VOE21250587	1							•Hydraulic pump		
1	VOE20450805	1							••Bearing flange		
2	VOE20450809	1							•••Bushing		
3	VOE20450807	1							•••Bushing		
4	VOE20450811	1							••Thrust washer		
5	VOE20450822	3							••Screw		
6	VOE21249506	1							••Gear		
7	VOE20459123	1							•Sleeve		
8	VOE20450815	1							••Snap ring		
9	VOE20450818	1							•O-ring		
10	VOE20450819	1							•O-ring		
11	VOE21077470	2							•Hex. socket screw		

12	VOE22316512	2							•Six point screw		
13	VOE20459170	1							•Oil line		
14	VOE13947621	2							•Plane gasket		
15	VOE60113509	1							•Hollow screw		
16	VOE13947281	2							•Gasket		
17	VOE980973	1							•Hollow screw		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1062411**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**216/100**	**Crankshaft and related parts 53284391, 53284407, 53284421**



Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

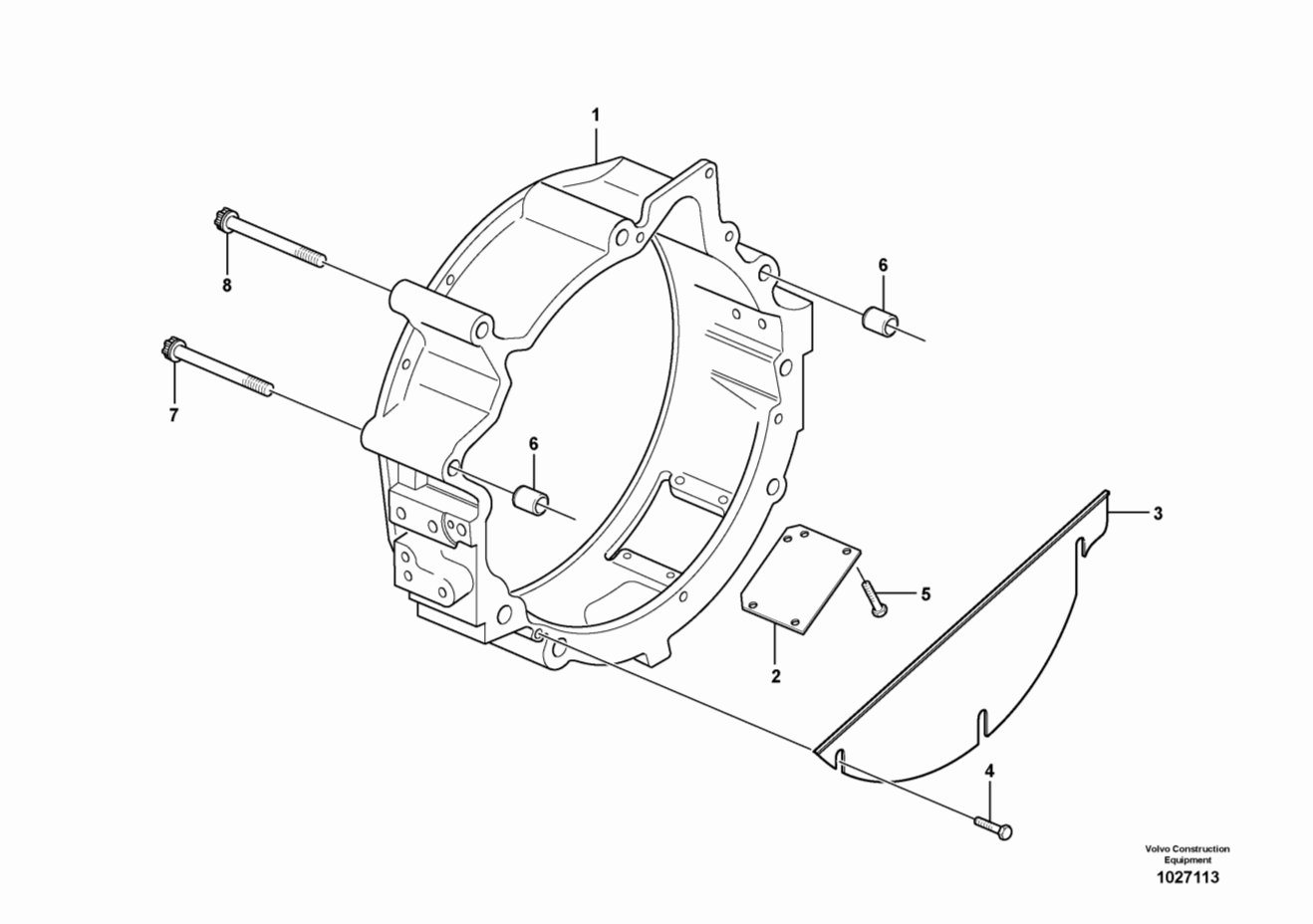
Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE21351218	1							Crankshaft		REMAN VOE9021351218
2	VOE20459144	10							•Insert		
3	VOE22967564	5							Main bearing		(VOE20850106)STD = 84,00 MM
3	VOE22967569	5							Main bearing		(VOE20850110)U SZ = 83,75 MM
4	VOE20850116	2							Thrust washer		STD 2,15 MM
4	VOE22967562	2							Thrust washer		O SZ = 2,35 MM
5	VOE20851091	1							Connecting rod		
6	VOE20799647	1							•Piston bushing		

7	VOE20799587	2							•Flange screw		
8	VOE20850096	1							Big-end bearing kit		STD = 70,00 MM
8	VOE20850097	1							Big-end bearing kit		U SZ = 69,75 MM
9	VOE20524696	1							Flywheel		
10	VOE22003479	1							•Starter gear ring		
11	VOE20405654	10							Bolt		
12	VOE20405643	5							Plug		
13	VOE20405634	1							Spring pin		
14	VOE20450628	1							Pin		
15	VOE22361189	1							Accessories		
16	VOE975108	3							Flange screw		
17	VOE20450838	1							Pin		
18	VOE21056677	1							Pulley		
19	VOE20405724	4							Screw		
20	VOE20459155	1							Pulley		
21	VOE996781	4							Hexagon screw		
22		1							Piston		See ref 213/100

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1027113**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**216/200**	**Flywheel housing 53284391, 53284407, 53284421**



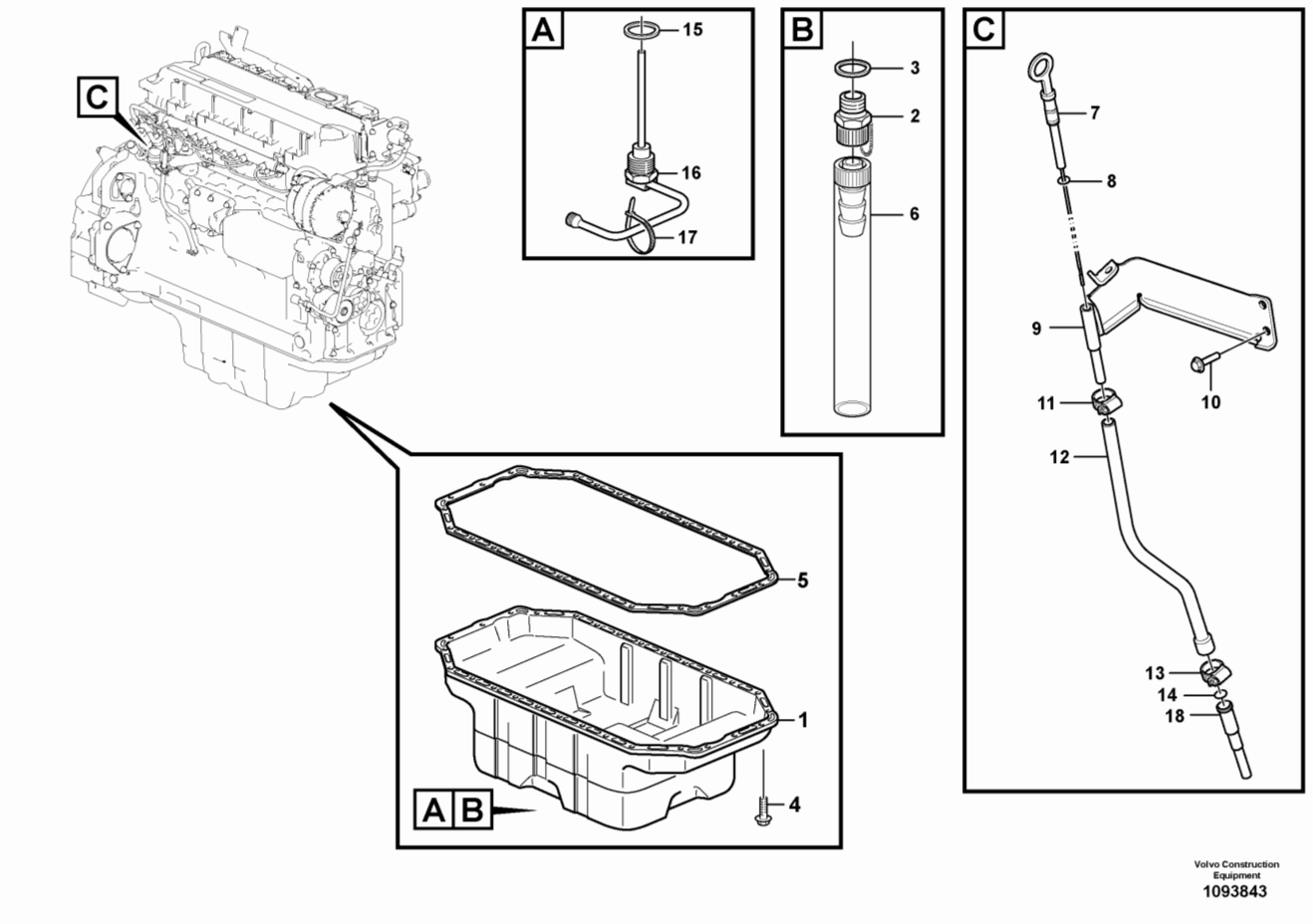
Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE21044436	1							Flywheel housing		
2	VOE20547288	1							•Cover Plate		
3	VOE20459989	1							•Cover		
4	VOE20405729	3							•Screw		
5	VOE20405729	4							•Screw		
6	VOE23112720	2							Bushing		
7	VOE20459996	2							Screw		
8	VOE20459995	4							Screw		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1093843**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**217/100**	**Oil sump 53284391, 53284407, 53284421**



Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

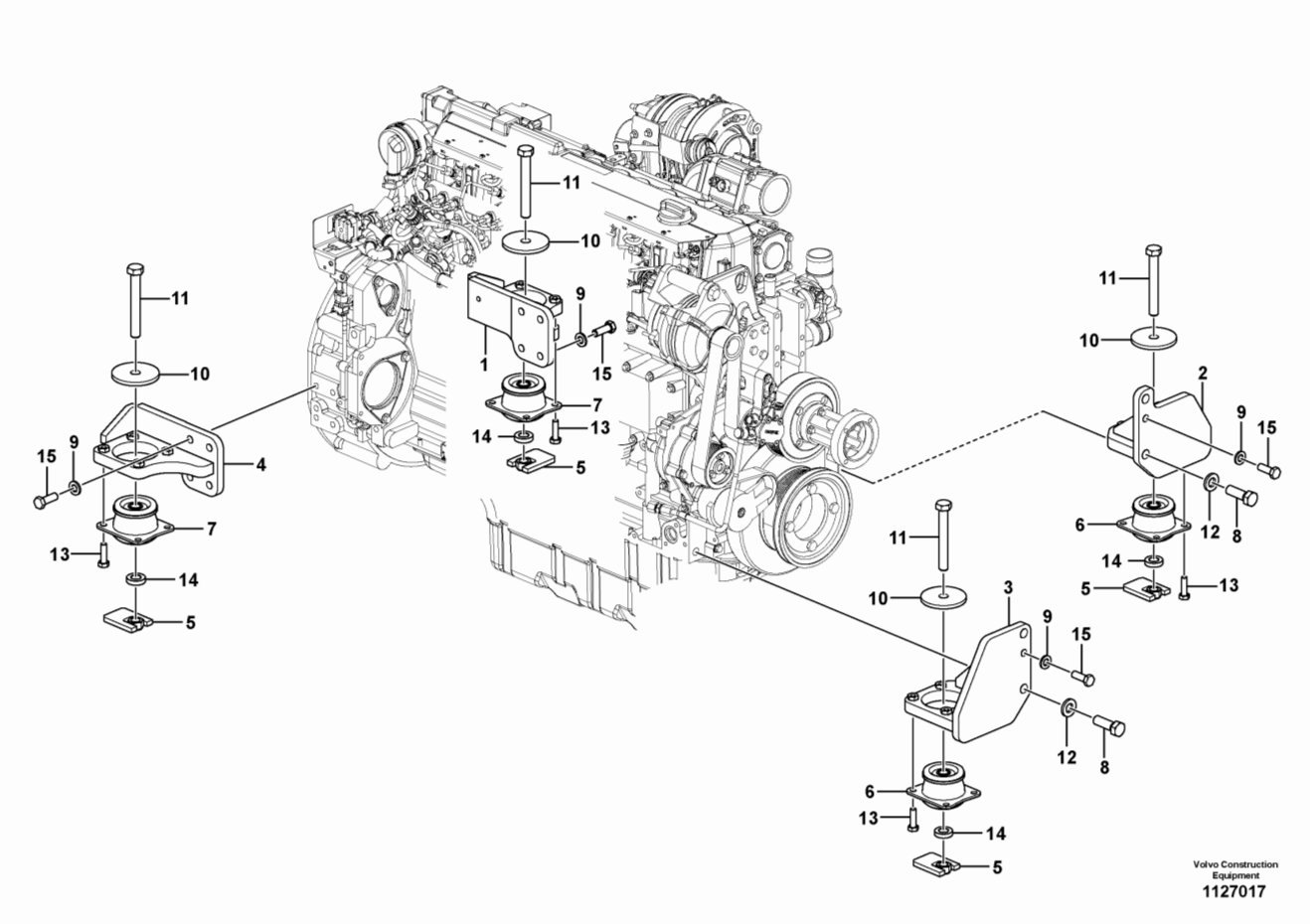
Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE21056546	1							Oil pan		
2	VOE22879098	1							Drain valve		
3	VOE993679	1							Gasket		
4	VOE20405792	22							Screw		
5	VOE20460021	1							Gasket		
6	VOE20478246	1							Hose connection		
7	VOE21899595	1							Dipstick		
8	VOE20460218	1							•O-ring		
9	VOE21966181	1							Bracket		
10	VOE20405792	2							Screw		
11	VOE20460215	1							Clip		

12	VOE21916013	1							Guide tube		
13	VOE20460214	1							Clip		
14	VOE21727990	1							Sealing ring		
15	VOE995871	1							Gasket		
16	VOE22383382	1							Level sensor		FX1006/SE2202, SE2205
17	VOE20513984	7							Strip clamp		
18	VOE23091815	1							Guide tube		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1127017**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**218/100**	**Engine mounting**



Section option	Kit	Option description
VOE53713237		Basic Machine ECR145F

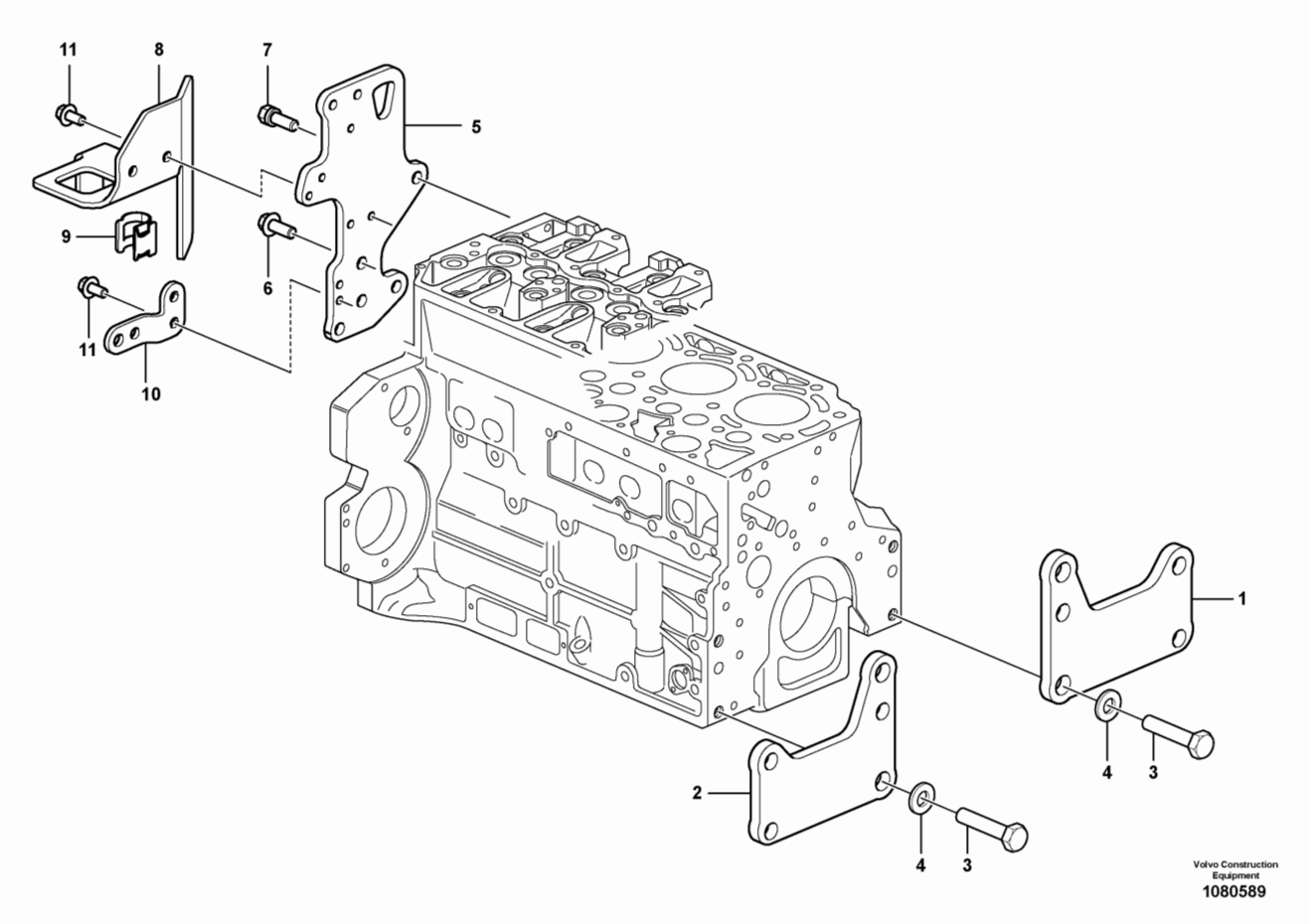
Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE53192735	1							Bracket		
2		1					NS		Bracket		
3	VOE53192750	1							Bracket		
4	VOE53192775	1							Bracket		
5	VOE14674475	4							Nut		
6	VOE14688153	2							Cushion		
7	VOE14688154	2							Cushion		
8	VOE997462	4							Hexagon screw		
9	VOE60110297	10							Washer		
10	VOE14717424	4							Plate		
11	VOE997469	4							Hexagon screw		
12	VOE60110299	4							Washer		
13	VOE997933	16							Hexagon screw		

14	VOE14578871	4							Washer		
15	VOE997953	10							Hexagon screw		

VOLVO

PROSIS Part Information

Date:	Image id:	Catalogue:	Model:
5/23/2026	**1080589**	**20982**	**ECR145F L5**
Brand:	Serial:	Group/Section:	Title:
Volvo	**410011-**	**218/200**	**Engine mounting 53284391, 53284407, 53284421**



Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE20723978	1							Bracket		
2	VOE20723984	1							Bracket		
3	VOE20535027	4							Screw		
4	VOE997824	4							Washer		
5	VOE22561880	1							Bracket		
6	VOE996813	3							Flange screw		
7	VOE20412314	2							Stud		
7	VOE20412308	2							Hexagon nut		
8		1					NS		Bracket		
9	VOE21088619	1							•Bracket		
10							NS		Retaining plate		

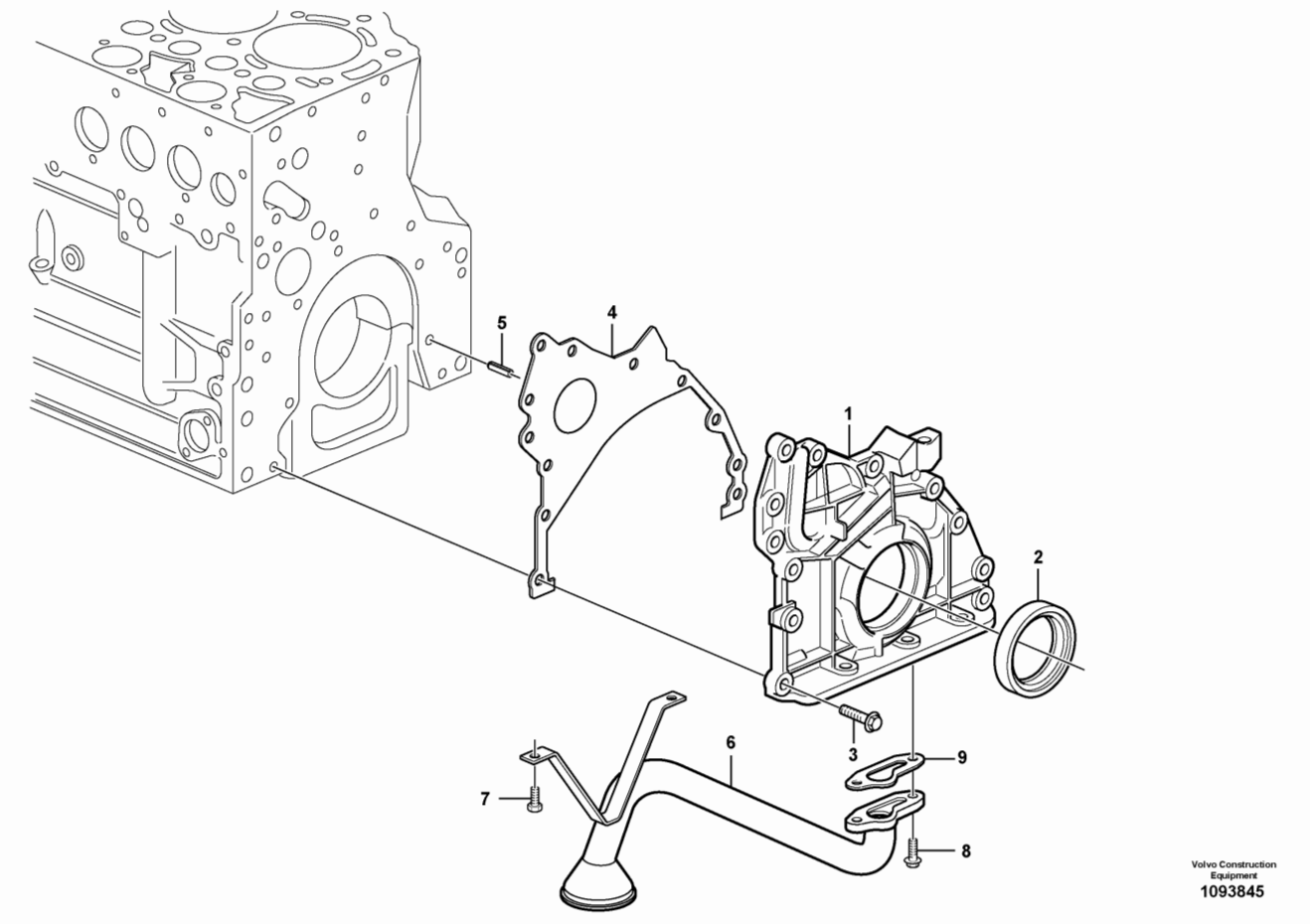
11	VOE60113228								Flange screw		

Product: ECR145F L5 Volvo Excavators Part Manual1
Full Download: https://www.arepairmanual.com/downloads/ecr145f-l5-volvo-excavators-part-manual1/

VOLVO

PROSIS Part Information

Date: **5/23/2026**	Image id: **1093845**	Catalogue: **20982**	Model: **ECR145F L5**
Brand: **Volvo**	Serial: **410011-**	Group/Section: **221/100**	Title: **Lubricating oil system 53284391, 53284407, 53284421**



Section option	Kit	Option description
VOE53284391		Engine D4J
VOE53284407		Engine D4J
VOE53284421		Engine D4J

Pos	Part	Q1	Q2	Q3	Q4	Q5	PS	Kit	Description	Option(s)	Remark
1	VOE23170989	1							Service cover		
2	VOE21496591	1							•Lip seal		
3	VOE996777	12							Flange screw		
4	VOE21531890	1							Gasket		
5	VOE20405603	1							Spring pin		
6	VOE20977068	1							Oil pipe		
7	VOE20405792	2							Screw		
8	VOE60113399	2							Flange screw		
9	VOE20405888	1							Gasket		

Sample manual. Download All 969 pages at:
https://www.arepairmanual.com/downloads/ecr145f-l5-volvo-excavators-part-manual1/