VOLVO TAD1643 VE-B

Engine

SPARE PARTS

ILLUSTRATIONS LIST

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2 – VALVE COVER

3 – CYLINDE BLOCK

4 - FLYWHEEL HOUSING

5 – FLYWHEEL ADAPTER

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29 - RADIATOR AND CHARGER AIR COOLER

30 - OIL COOLER

31 - COOLING WATER PUMP

32 - FAN

33 - FAN SHROUD

34 - FAN DRIVE

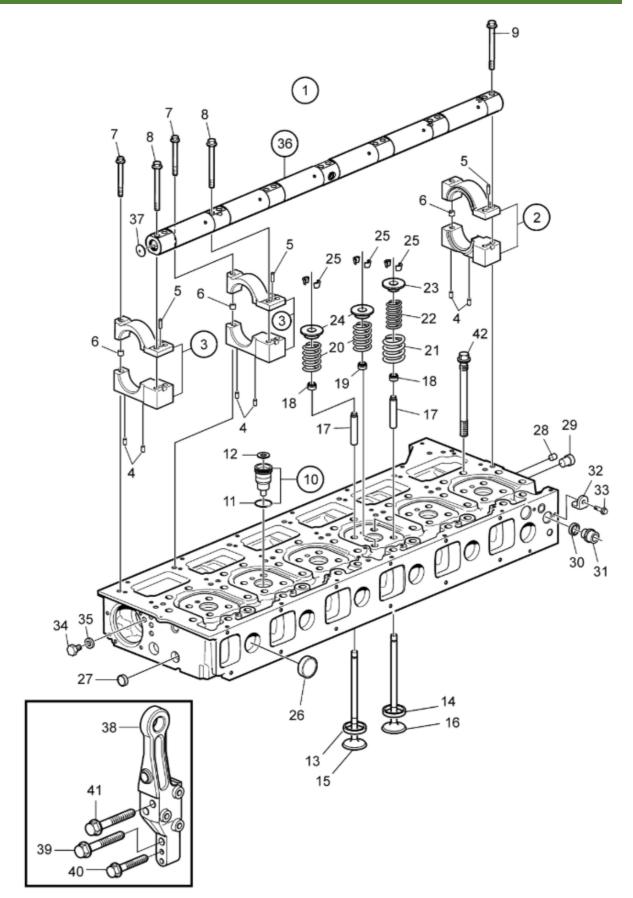
35 - BELT TIGHTENER

36 - ALTERNATOR

37 - STARTER

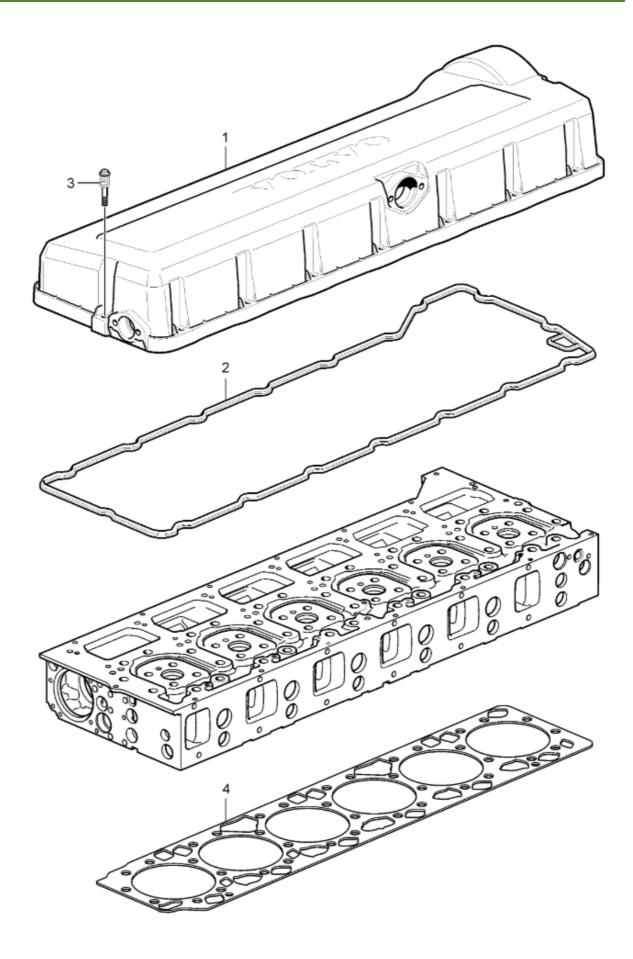
38 - ELECTRIC

1-CYLINDER HEAD



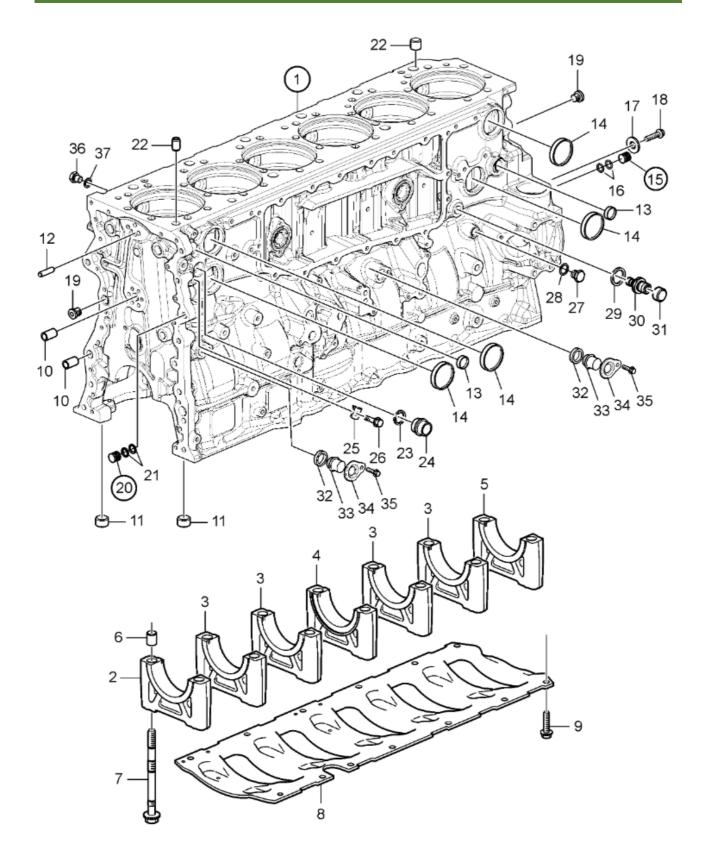
#	Par	t no	Qty	
1	3801605		1	Cylinder head, exch
1	22216118			Cylinder head
				SN2016010025-
2	<u>21235155</u>		1	 Bearing housing
3			6	 Bearing housing
4	422426		14	• • Pin
5	<u>950550</u>		6	• • Pin
6	<u>1546484</u>		7	Pivot pin
7	<u>975105</u>		7	Flange screw
8	21344753		12	Flange screw
9	20412482		1	 Flange screw
10	<u>21351717</u>		6	 Injector sleeve
11	<u>20536487</u>		1	O-ring
12	<u>21261987</u>		1	Washer
13	<u>21780358</u>		12	 Valve seat, intake
14	<u>22059584</u>		12	 Valve seat, exhaust
15	<u>20739057</u>		12	 Inlet valve
16	<u>20513285</u>		12	 Exhaust valve
17	<u>21067953</u>		24	Valve guide
18	20924435		18	 Valve stem seal
19	22612096		6	 Valve stem seal
19	<u>22890696</u>		6	 Valve stem seal
20	<u>22527820</u>		12	 Valve spring
21	<u>21448332</u>		12	 Valve spring
21	<u>22807212</u>		12	Valve spring
22	<u>21324296</u>		12	 Valve spring
23	<u>8131835</u>		12	 Valve spring washer
24	<u>20551394</u>		12	 Valve spring washer
25	<u>8170995</u>		48	Valve collet
26	24426721		16	 Expansion plug
26	24426723		6	Expansion plug
27	24426722		6	 Expansion plug
28	<u>968062</u>		1	Plug
29	20496040		1	Cap plug
30	<u>1547252</u>		2	 Sealing ring
31	<u>20845995</u>		2	Plug
32	<u>1546531</u>		1	Lock brace
33	<u>984732</u>		1	 Flange screw
34	<u>965768</u>		1	Plug
34	<u>966142</u>		1	Plug
35	<u>18665</u>		1	Gasket
35	<u>11994</u>		1	 Gasket
36	<u>21534993</u>		1	Rocker arm shaft
37	<u>955096</u>		2	Expansion plug
38			1	Lifting eye
39	<u>984850</u>		1	Flange screw
40	<u>994441</u>		1	Flange screw
41	<u>984818</u>		2	Flange screw
42	<u>21345129</u>		38	Flange screw
				L=187mm

2 - VALVE COVER



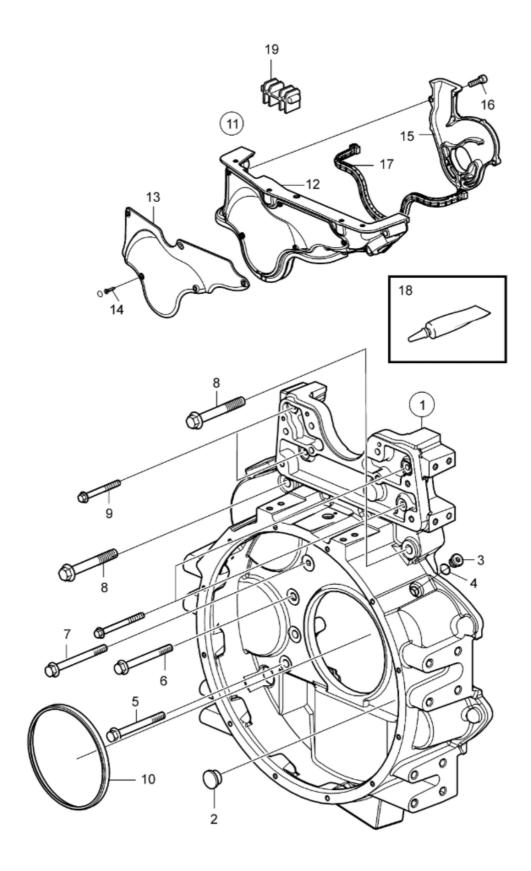
#	Part no	Qty	Description
1	20709580	1	Valve cover
			SN2016007732-
2	20736230	1	Sealing strip
3	<u>20739547</u>	17	Flange screw
4	<u>21575727</u>	1	Gasket

3 - CYLINDER BLOCK



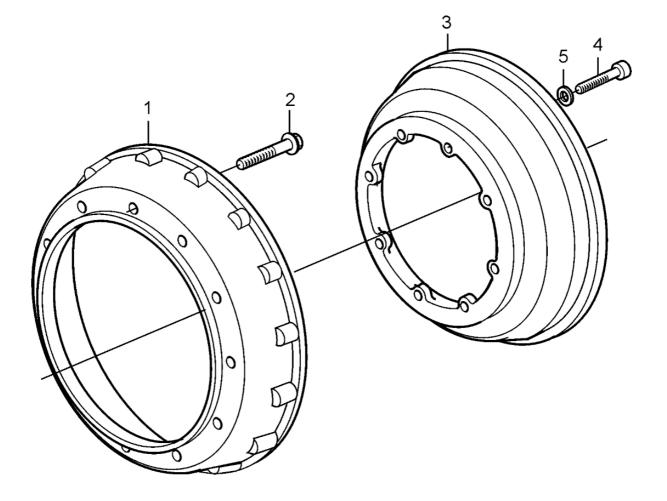
#	Part no	Qty	Description
1	2205679	<u>1</u> 1	Cylinder block
2		1	 Main bearing cap
3		4	 Main bearing cap
4		1	 Main bearing cap
5		1	 Main bearing cap
6	<u>8131967</u>	14	Guide sleeve
7	<u>2134478</u>	<u>1</u> 14	 Flange screw
8 🗌	20722628	<u>3</u> 1	Frame
9	<u>975110</u>	13	Flange screw
🗌 10	<u>8131145</u>	2	Guide sleeve
11	<u>417588</u>	2	Guide sleeve
12	<u>950588</u>	1	Pin
13	2442672	12	Expansion plug
14	<u>8131937</u>	4	Expansion plug
15	2056218	21	Plug
🗌 16	<u>466922</u>	2	O-ring
17	<u>976944</u>	1	Washer
18	<u>994445</u>	1	Flange screw
			M8x16mm
19	2052944	52	Plug
20	20562189	21	Plug
21	466922	2	O-ring
22	20485996	<u>i</u> 2	Pin
23	<u>471708</u>	2	Rubber moulding
24	20381177	2	Plug
25	<u>1546532</u>	2	Lock brace
26	<u>984733</u>	2	Flange screw
27	<u>960631</u>	1	Plug
28	<u>11996</u>	1	Gasket
29	<u>979099</u>	1	Gasket
30	<u>1676622</u>	1	Quick coupling
31	<u>476279</u>	1	Protecting cap
32	2194061	52	Sealing ring
33	20567779	2 2	Plug
34	<u>20740148</u>	32	Yoke
35	<u>984733</u>	2	Flange screw
36	<u>960629</u>	1	Plug
37	<u>11994</u>	1	Gasket

4 - FLYWHEEL HOUSING



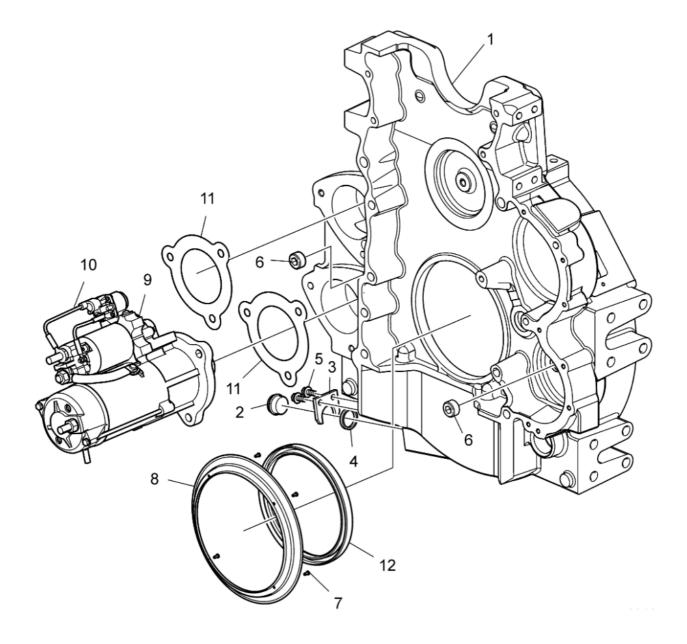
#	Part no	Qty	Description
1	22569860	1	Flywheel housing
2	<u>979947</u>	1	 Plug
3	<u>966144</u>	1	Plug
4	<u>11998</u>	1	Gasket
5	<u>984862</u>	6	Flange screw
			M14x90mm
6	<u>984863</u>	1	Flange screw
			M14x100mm
7	<u>984760</u>	3	Flange screw
			M10x90mm
8	<u>975130</u>	2	Flange screw
			M16x120mm
9	<u>984762</u>	2	Flange screw
			M10x110mm
10	85108352	1	Crankshaft seal
			SN-2016118292
10	22191895	1	Crankshaft seal
			SN2016118293-
11	22199951	1	Timing gear cover
			SN-2016007731
11	22997662	1	Timing gear cover
			SN2016007732-
12		1	 Timing gear cover
13		1	 Noise shield
14		4	Rivet
15		1	 Oil separator
16	<u>940326</u>	4	Hex. socket screw
17	20815558	1	Sealing strip
18	<u>1161231</u>	1	Sealant
			304ml
18	<u>1161277</u>	1	Sealant
			20g
19	21185132	2	Seal

5 - FLYWHEEL ADAPTER



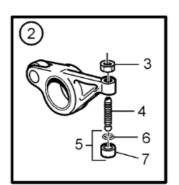
#	Part no	Qty	Description
1	<u>3826138</u>	1	Adapter, flywheel casing
			From SAE 1 to SAE 0.
2	<u>984754</u>	12	Flange screw
3	<u>3826137</u>	1	Adapter, flywheel
			From SAE 1 to SAE 0.
4	<u>981744</u>	8	Hex. socket screw
5	<u>18634</u>	8	Washer

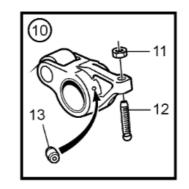
6 - FLYWHEEL HOUSING

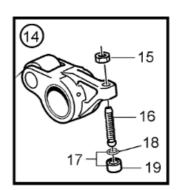


#	Part no	Qty	Description
1	78466891	1	Flywheel housing
2	<u>11031785</u>	1	 Plug
3	<u>11031769</u>	1	 Lock washer
4	<u>421158</u>	1	 Sealing ring
5	<u>984733</u>	2	 Flange screw
6	<u>60112001</u>	2	 Plug
7	<u>905650</u>	4	 Drive screw
8	<u>15004855</u>	1	 Oil deflector ring
9	<u>17233221</u>	1	Starter motor
10	17233221	1	 Starter motor
11	<u>11127393</u>	2	Gasket
12	17460059	1	Mounting ring

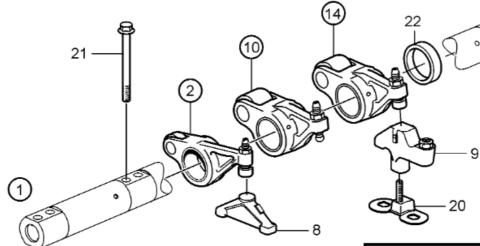
7 – ROCKER ARM SHAFT

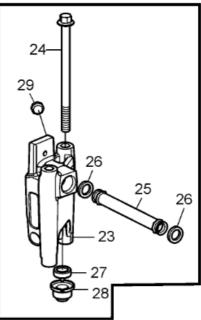






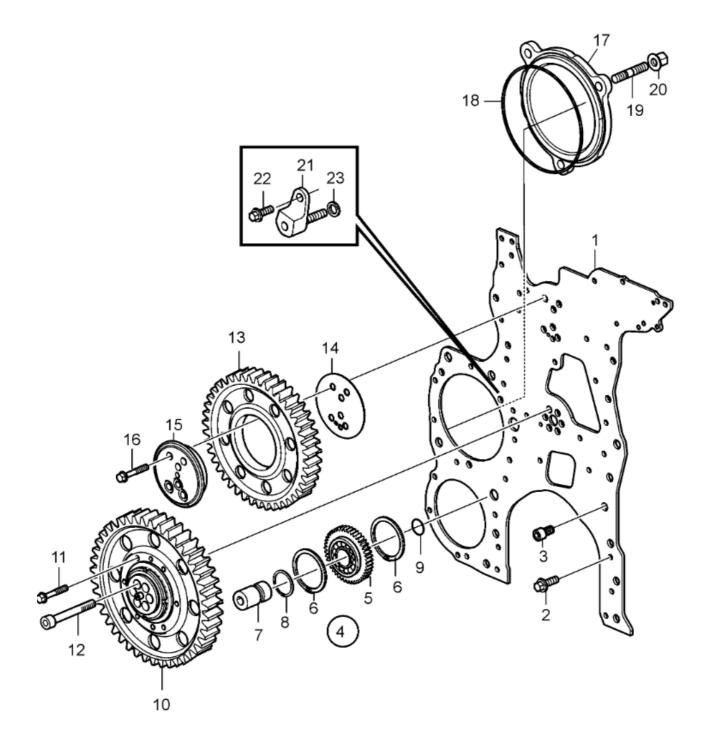
0 10





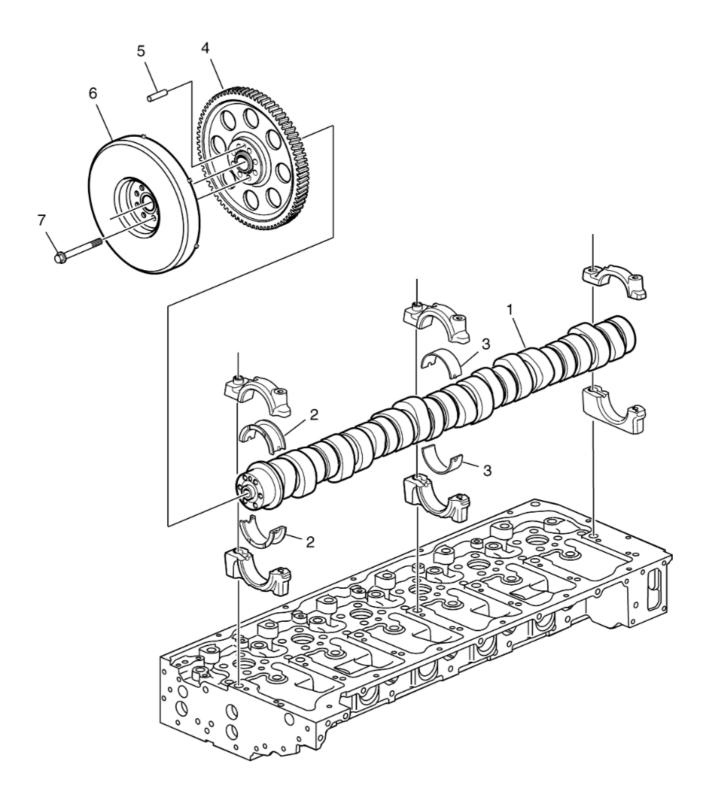
#	Part no	Qty	Description
1	Rocker arr	n sł	<u>naft</u>
2	22255550	6	Rocker arm, intake
3	<u>946911</u>	1	 Hexagon nut
4	20501055	1	 Ball stud
5	<u>21054149</u>	1	 Ball socket
6	<u>944364</u>	1	O-ring
7		1	Ball seat
8	<u>21061323</u>	6	Valve bridge, intake
9	20857578	6	Valve caliper, exhaust
10	<u>21732658</u>	6	Rocker arm, fuel injector
11	<u>1677396</u>	1	 Hexagon nut
12	20501057	1	 Adjusting screw
13	<u>3964817</u>	1	Jet
14	<u>21415399</u>	6	Rocker arm, exhaust
15	<u>946911</u>	1	 Hexagon nut
16	<u>20501055</u>	1	 Ball stud
17	<u>21054149</u>	1	 Ball socket
18	<u>944364</u>	1	O-ring
19		1	Ball seat
20	20554268	6	Guide pin
21	<u>21344753</u>	14	Flange screw
22	<u>21402081</u>	6	Spacer sleeve
23	<u>21105100</u>	1	Intermediate housing
24	<u>984746</u>	2	Flange screw
25	20571452	1	Outlet pipe
26	<u>1677370</u>	2	Sealing ring
27	20526428	1	Sealing ring
28	<u>20775471</u>	1	Spacer sleeve
29	<u>955082</u>	1	Cap plug

8 - ROCKER ARM SHAFT



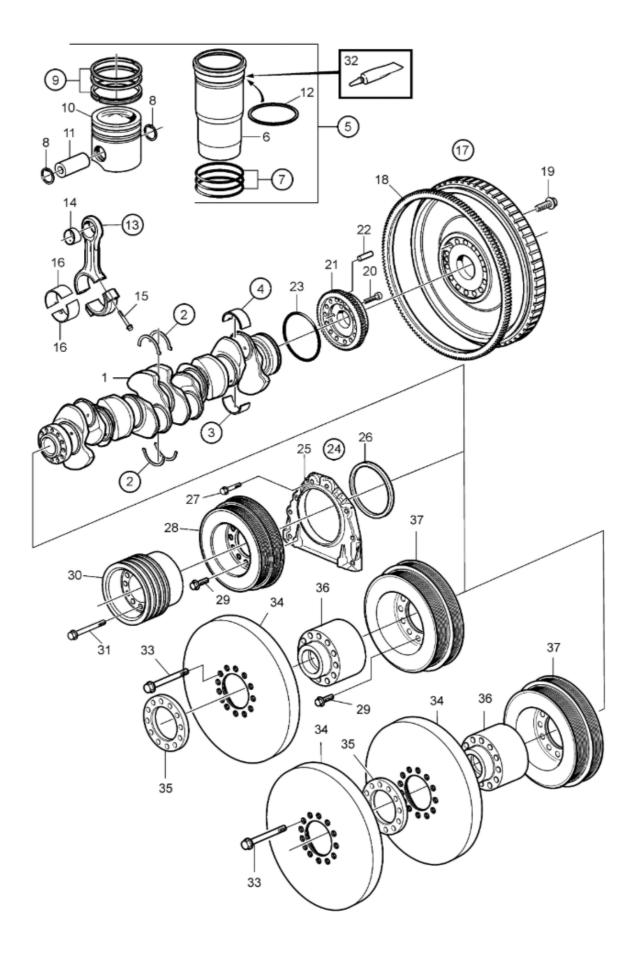
			1
#	Part no	Qty	Description
1	Rocker an	m sh	<u>iaft</u>
2	<u>22255550</u>	6	Rocker arm, intake
3	21054149	1	 Ball socket
4	<u>944364</u>	1	O-ring
5		1	 Ball seat
6	<u>946911</u>	1	 Hexagon nut
7	20501055	1	 Ball stud
8	21732658	6	Rocker arm, Injector
9	<u>3964817</u>	1	 Jet
10	20501057	1	 Adjusting screw
11	<u>1677396</u>	1	 Hexagon nut
12	21415409	6	Rocker arm, exhaust
13		2	• Plug
14	<u>946911</u>	1	 Hexagon nut
15		1	 Adjusting screw
16		1	 Piston
17	21054149	1	 Ball socket
18	<u>944364</u>	1	O-ring
19	21732664	6	Rocker arm, exhaust
20	<u>1677396</u>	1	Hexagon nut
21		1	Adjusting screw
22	20724261	1	Ball socket
23	976012	1	 O-ring
24		1	 Push rod
25		1	 Ball socket
26	20724250	6	Leaf spring
27	20775507	12	Hex. socket screw
28	20554106	6	Valve caliper
29	21801388		Yoke
30			Flange screw
31			Valve caliper
32			 Adjusting screw
33		1	 Hexagon nut
34	20554268		_
35			Control valve
	<u>955082</u>	3	Cap plug
37	20526428		
38	<u>984746</u>		Flange screw
39	20571452		Outlet pipe
40			Sealing ring
40	1011310		ocaling mig

9 - CAMSHAFT



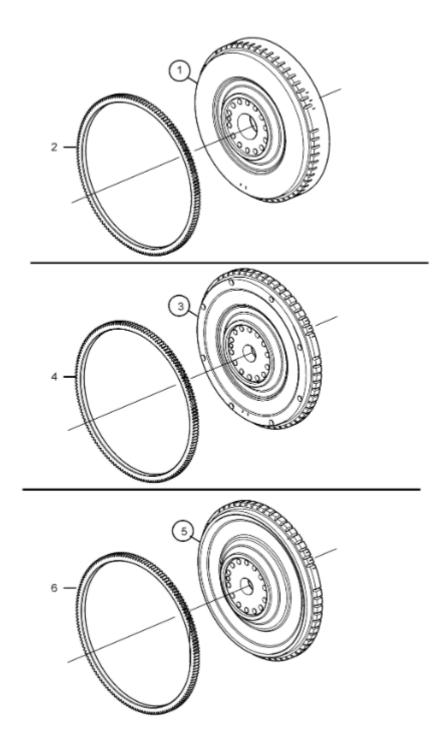
#	Part no	Qty	Description
1	22650748	1	Camshaft
2	21006109	1	Camshaft bearing kit
			Std
3	21006103	6	Camshaft bearing kit
			Std SN2016010025-
3	<u>276631</u>	6	Camshaft bearing kit
			O.S=0,25mm
3	<u>276632</u>	6	Camshaft bearing kit
			O.S=0,50mm
3	<u>276633</u>	6	Camshaft bearing kit
			O.S=0,75mm
4	21456239	1	Gear, camshaft gear
5	<u>950551</u>	1	Pin
6	21473105	1	Vibration damper
7	<u>8192804</u>	8	Flange screw

10 - CRANK MECHANISM



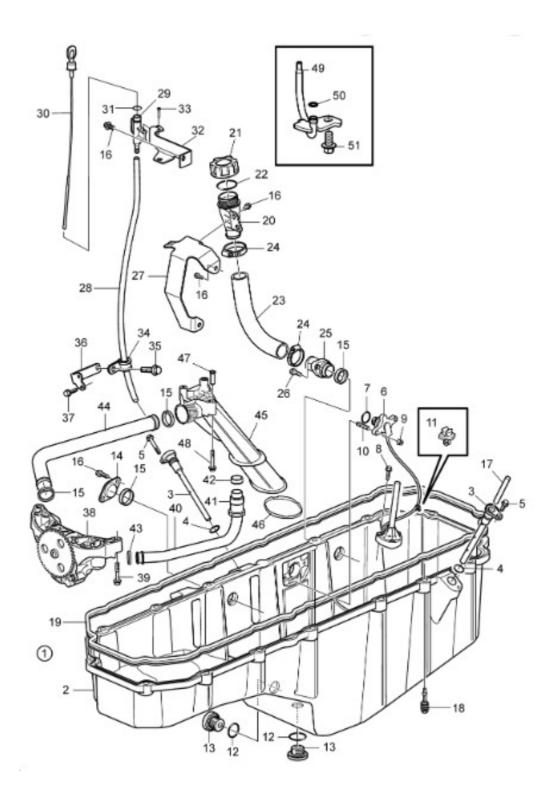
#	Part no	Qty	Description
1	<u>8131247</u>	1	Crankshaft SN-2016120951
1	22235130	1	Crankshaft
2	21948268		SN2016120952- Thrust washer kit
3			Main bearing kit
3	20700881		Std Main bearing kit
	20100001		0.S=0,25mm
3	20700882	6	Main bearing kit O.S=0,50mm
3	<u>20700885</u>	6	Main bearing kit O.S=0,75mm
3	20700886	6	Main bearing kit
3	20700887	6	O.S=1,00mm Main bearing kit
4	20570952	4	O.S=1,25mm Main bearing kit
4	20576653	1	Std, Bearing no 7
4	<u>20700890</u>	1	Main bearing kit O.S=0,25mm, Bear
4	<u>20700891</u>	1	Main bearing kit
4	<u>20700893</u>		O.S=0,50mm, Bea Main bearing kit
5	21254035	6	O.S=1,00mm, Bea
5 6	21234035	1	Cylinder liner kit Cylinder liner
7	20520607		 Sealing ring kit See parts bulletin
7	<u>22179684</u>		 Sealing ring kit See parts bulletin
8	<u>945483</u>	2	 Snap ring
9	20819869	1	 Piston ring kit
10 11		1	 Piston Gudgeon pin
12	20523555		Shim
12 12	20523556 20523557	1	Shim
13			Connecting rod
	<u>20898010</u>		 Bushing
15 16	8131198 20586602	24 6	
16	20586603		Big-end bearing ki
16	20586604	6	Big-end bearing ki
16	20586606		Big-end bearing ki Flywheel
17 18	<u>3840066</u> 20711957	1	Ring gear
19	21344746		Flange screw
20	<u>984738</u>	2	Flange screw
21	<u>21430914</u>		Gear
22 23	<u>950656</u> <u>997790</u>	1	Pin O-ring
23 24	<u>21054681</u>		Cover
25	20777236	1	SN-2016120951 Cover
26	21347087	1	SN2016120952- Crankshaft seal
			SN-2016120951
26			Crankshaft seal SN2016120952-
27	<u>984736</u>	8	Flange screw
28	20585893 984815	1	Vibration damper
29	<u>984815</u> <u>3829173</u>	6	Flange screw Pulley
30	<u>984821</u>		Flange screw
30 31	304021		Sealant
31		1	ooulain
31	<u>1161231</u> <u>1161277</u>	1 1	Sealant
31 32	<u>1161231</u>	1	
31 32 32 33 34	1161231 1161277 984825 3889367	1 12 2	Sealant Flange screw Vibration damper
31 32 32 33	<u>1161231</u> <u>1161277</u> <u>984825</u>	1 12	Sealant Flange screw

11 - FLYWHEEL



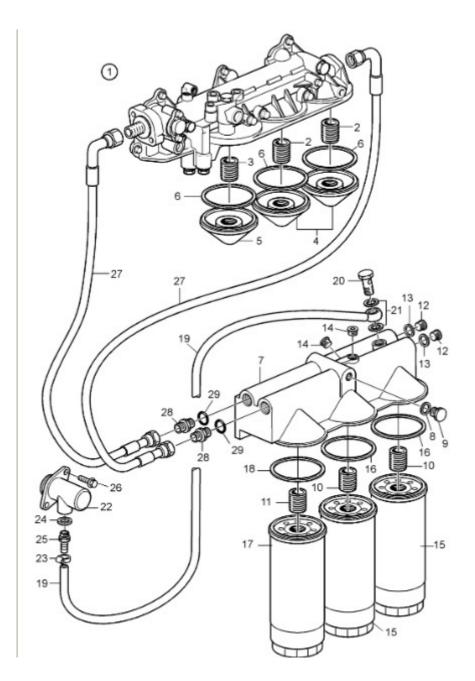
#	Part no	Qty	Description
1	3840066	1	Flywheel
			Std, SAE 1
2	<u>20711957</u>	1	 Ring gear
3	<u>3848344</u>	1	Flywheel
			For Clark C8000,
4	<u>20711957</u>	1	 Ring gear
5	<u>22739170</u>	1	Flywheel
			Clutch Damper Di
6	<u>20711957</u>	1	 Ring gear

12 - LUBRICATION SYSTEM



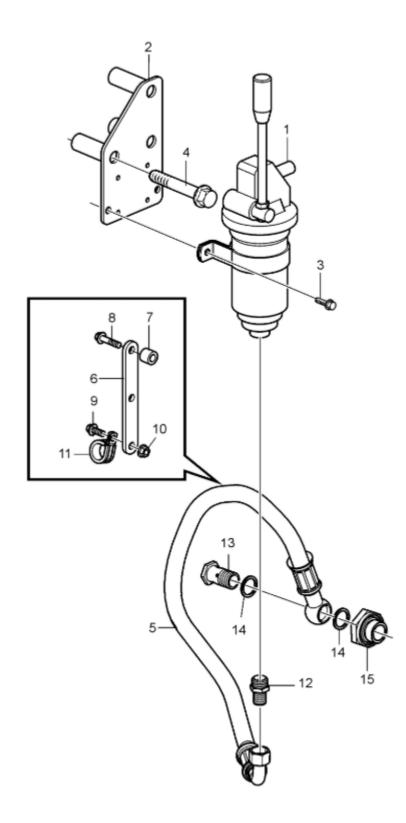
#	Part no	Qty	Description
1	<u>17443046</u>	1	Oil pan
2		1	 Sump
3	21523327	2	 Pipe
4	949656	2	O-ring
5	984734	2	 Flange screw
6	22807993	1	 Oil level sensor
			Replaced by 232857
6	23285701	1	 Oil level sensor
7	990719	1	O-ring
8	984728	3	Flange screw
9	990949	2	 Flange lock nut
10	953035	2	Stud
11	20700754	2	Retainer
12	948610	2	O-ring
12	<u>11127354</u>	2	_
			Magnetic plug
14	3964803	1	Plug
15	21780376	4	Sealing ring
16	<u>984733</u>	7	Flange screw
17	20533484	1	Plug
18	20739547	16	Flange screw
19	<u>20734156</u>	1	Sealing strip
20	20808091	1	Oil filler pipe
21	<u>20807510</u>	1	 Oil filler cap
22	20365079	1	Rubber washe
23	<u>21328920</u>	1	Hose
24	<u>994561</u>	2	Hose clamp
25	<u>20462497</u>	1	Connection pipe
26	<u>984735</u>	2	Flange screw
27	22422487	1	Bracket
28	<u>11158388</u>	1	Pipe
29	<u>11129411</u>	1	 Anchorage
30	40005190	1	Oil dipstick
			SN-2016107256
30	23082417	1	Oil dipstick
			SN2016107257-
31	<u>944124</u>	1	O-ring
32	22053499	1	Bracket
33	<u>975371</u>	1	Six point socket scr
34	952626	1	Clamp
35	955271	1	Hexagon screw
36	21361329	1	Bracket
37	20784686		Flange screw
38	21708142		Oil pump
39	21344756		Flange screw
40	20708889	1	Pressure pipe
41		1	 Fitting screw
	980790	1	Ferrule
42	1543578	1	Sealing ring
42 43			
43		1	Suction nine
43 44	20553751	1	Suction pipe Oil strainer
43 44 45	20553751 20547257	1	Oil strainer
43 44 45 46	20553751 20547257 8131965	1	Oil strainer Strainer
43 44 45 46 47	20553751 20547257 8131965 20547263	1 1 1	Oil strainer Strainer Spacer sleeve
43 44 45 46 47 48	20553751 20547257 8131965 20547263 994451	1 1 1 3	Oil strainer Strainer Spacer sleeve Flange screw
43 44 45 46 47 48 49	20553751 20547257 8131965 20547263 994451 3839496	1 1 1 3 6	Oil strainer Strainer Spacer sleeve Flange screw Piston cooling jet
43 44 45 46 47 48	20553751 20547257 8131965 20547263 994451	1 1 1 3	Oil strainer Strainer Spacer sleeve Flange screw

13 - OIL FILTERS



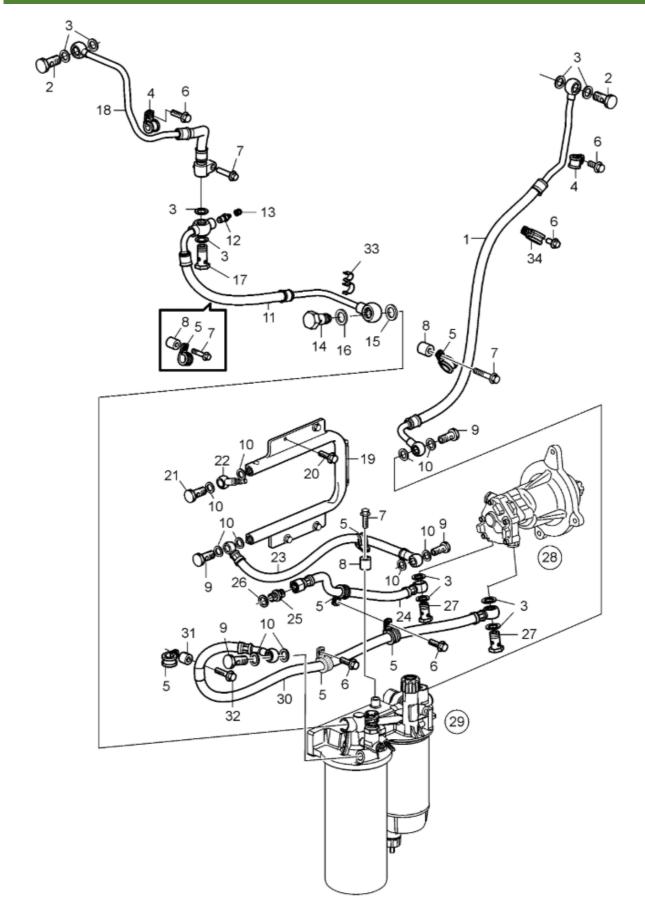
#	Part no	Qty	Description
1	22655069	1	Oil filter housing
2	466623	2	 Nipple
3	<u>469904</u>	1	 Nipple
4	<u>21145970</u>	2	Cover
5	<u>21145971</u>	1	Cover
6	<u>993235</u>	3	X-ring
7	<u>11127988</u>	1	Oil filter housing
8	<u>976932</u>	1	 Gasket
9	<u>471598</u>	1	 Plug
10	466623	2	 Nipple
11	<u>469904</u>	1	 Nipple
12	<u>942352</u>	2	Plug
13	<u>982508</u>	2	Gasket
14	<u>984793</u>	2	Plug
15	<u>21632664</u>	2	Oil filter
15	23075366	2	Oil filter
16		2	 Gasket
17	23075367	1	Oil filter
			SN2016107824-
18		1	 Gasket
19	<u>21521886</u>	1	Hose
20	<u>991048</u>	1	Hollow screw
21	20852764	2	Sealing ring
22	<u>3819332</u>	1	Pipe
23	<u>961664</u>	1	Hose clamp
24	<u>969011</u>	1	Gasket
25	20405767	1	Hose nipple
26	<u>984733</u>	2	Flange screw
27	23434306	2	Hose
28	<u>11158220</u>	2	Adapter
29	<u>982508</u>	2	Gasket

14 - DRAIN PUMP



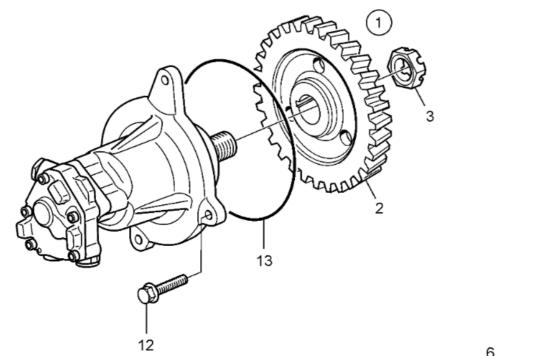
#	Part no	Qty	Description
1	<u>3827475</u>	1	Oil drain pump
2	<u>3836697</u>	1	Bracket
3	<u>984734</u>	2	Flange screw
4	<u>975127</u>	3	Flange screw
			L=90mm
5	<u>21276558</u>	1	Oil hose
6	<u>3829091</u>	1	Bracket
7	<u>20573472</u>	1	Spacer sleeve
8	<u>984737</u>	1	Flange screw
9	<u>984734</u>	1	Flange screw
10	<u>990940</u>	1	Flange nut
11	<u>949379</u>	1	Clamp
12	<u>944177</u>	1	Nipple
13	<u>966821</u>	1	Hollow screw
14	<u>18813</u>	2	Gasket
15	<u>21171958</u>	1	Plug

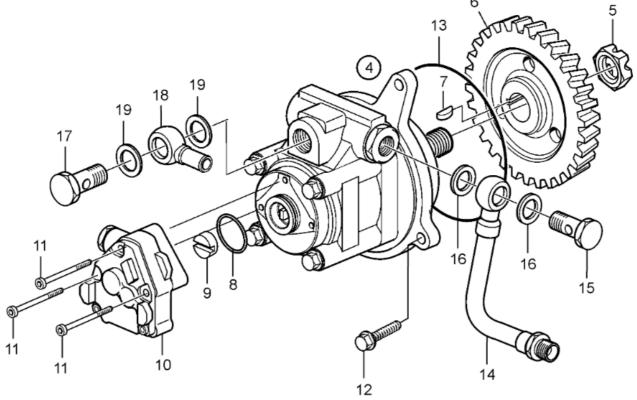
15 - FUEL SYSTEM



#	Part no	Qty	Description
1	22394978	1	Fuel hose
2	<u>941686</u>	2	Hollow screw
3	20852765	10	Sealing ring
4	<u>949746</u>	2	Clamp
5	<u>949747</u>	6	Clamp
6	<u>984733</u>	5	Flange screw
7	<u>984737</u>	3	Flange screw
8	<u>826652</u>	3	Spacer sleeve
9	<u>991048</u>	4	Hollow screw
10	20852764	12	Sealing ring
11	21948562	1	Fuel hose
12	20548012	1	 Faucet
13	20547976	1	 Protecting cover
14	21140647	1	Overflow valve
15	<u>11998</u>	1	Gasket
16	20883435	1	Sealing ring
17	<u>190713</u>	1	Hollow screw
18	21948554	1	Fuel hose
19	17208196	1	Radiator
20	<u>994258</u>	5	Flange screw
21	<u>25167</u>	1	Hollow screw
22	<u>3587322</u>	1	Banjo nipple
23	21311219	1	Fuel pipe
24	21311221	1	Fuel pipe
25	<u>946602</u>	1	Nipple
26	<u>993685</u>	1	Gasket
27	<u>991046</u>	2	Hollow screw
28	20902698	1	Tandem pump
			With servo pump., Con
28	22677520	1	Fuel pump
			Without servo pump., (
29	22035823	1	(3594872) Fuel filter housing
30	20909822		Fuel pipe
31		1	Spacer washer
32	984736	1	Flange screw
33	3545508	1	Retainer
34	949747	1	Clamp
		-	

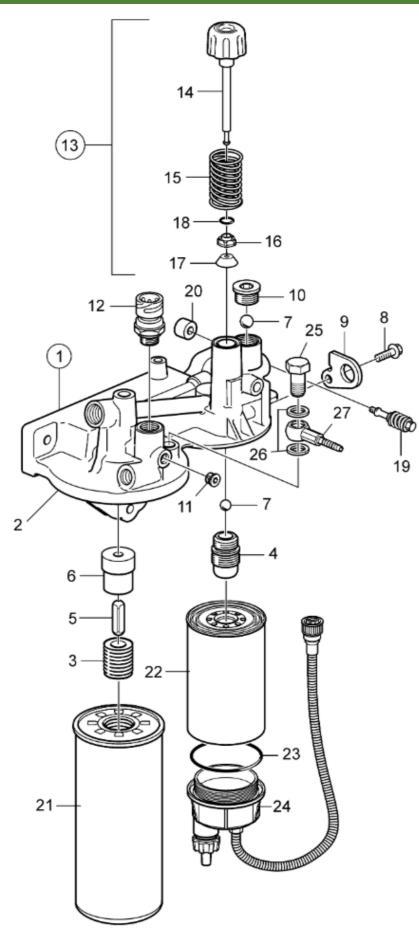
16 - FUEL PUMP





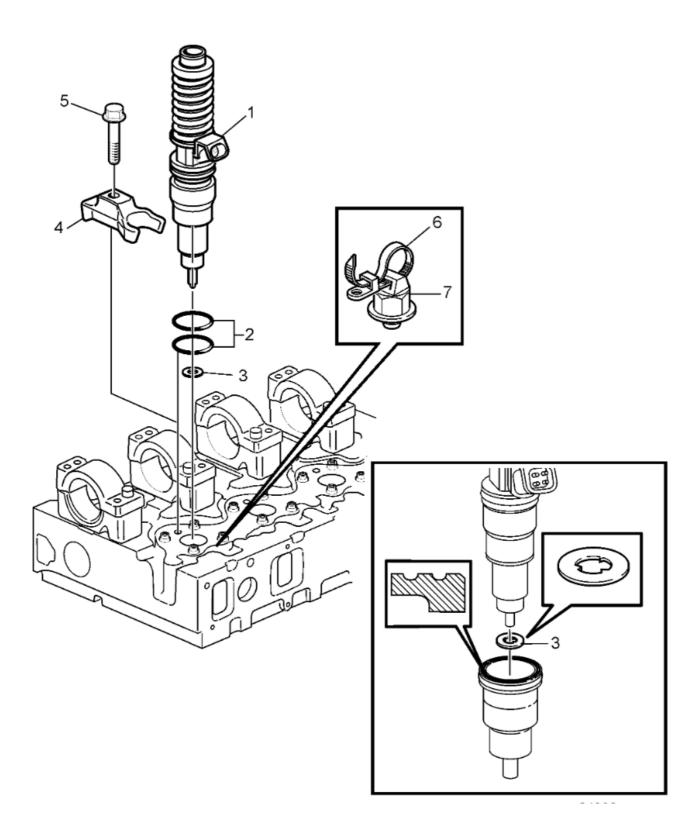
#	Part no	Qty	Description
1	22677520	1	Fuel pump
			Without servo pump.
2	<u>8131292</u>	1	Gear
3	20367040	1	Castle nut
4	20902698	1	Tandem pump
			With servo pump.
5	20367040	1	 Castle nut
6	<u>8131292</u>	1	Gear
7	<u>1505357</u>	1	 Woodruff key
8	<u>85103703</u>	1	O-ring
9	85103779	1	 Constant velocity jo
10	20997341	1	 Fuel pump
			(85103778)
11	<u>85103780</u>	3	Hex. socket screw
12	<u>994386</u>	1	Flange screw
			L=55mm
12	<u>984736</u>	2	Flange screw
			L=30mm
13	<u>977030</u>	1	O-ring
14	21406534	1	Servo pipe
15	<u>941686</u>	1	Hollow screw
16	<u>982724</u>	2	Gasket
17	<u>191620</u>	1	Hollow screw
18	<u>1598185</u>	1	Banjo nipple
19	<u>982508</u>	2	Gasket

17 - FUEL FILTER HOUSING ASSEMBLY



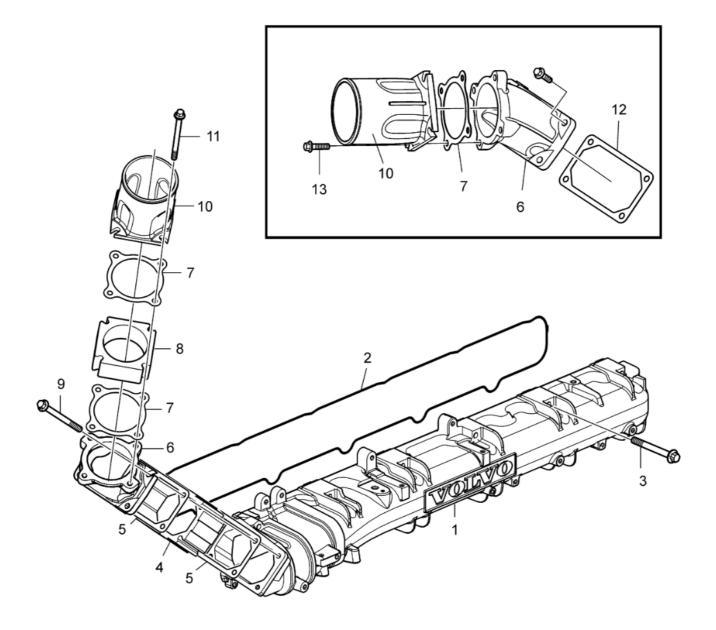
#	Part no	Qty	Description
1	22035823	1	Fuel filter housing
2		1	 Filter housing
3	21140585	1	 Nipple
4		1	 Nipple
5	20733505	1	Valve
6		1	Sleeve
			Included in filter housir
7	20528999	1	Ball
8	20784686	1	 Flange screw
9		1	 Bracket
10	20744692	1	Cap
11	20542751	1	• Plug
12	21634021	1	 Pressure sensor
			Fuel/Oil Pressure SN-2
12	22899626	1	Pressure sensor
			Fuel/Oil Pressure SN2
13	22763401	1	 Hand pump
14	20784020	1	Pump shaft
15	20784027	1	Spring
16	20528992	1	Control plunger
17	20528991	1	Back-up ring
18	20528990	1	• • O-ring
19	20739547	3	Flange screw
20	21091546	3	Rubber element
21	20976003	1	Fuel filter
			Replaced by 22480372
21	22480372	1	Fuel filter
22	20998367	1	Fuel filter
23	967344	1	O-ring
24	21333413		Bowl
24	21086803		Bowl
_			Metal
25	3594288	1	Valve
26	20852764		Sealing ring
27	993586	1	Banio nipple
21	333300		

18 - INJECTOR



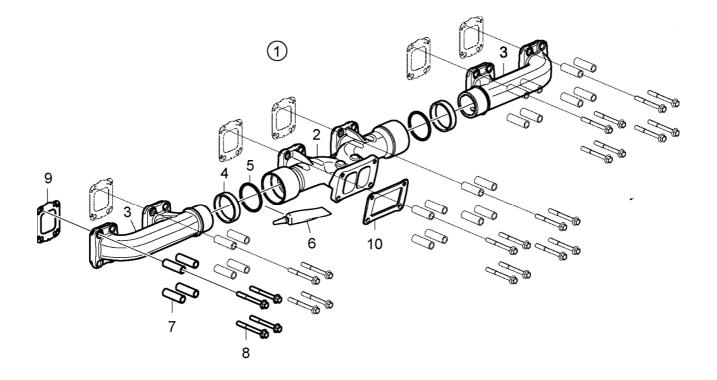
#	Part no	Qty	Description
1	<u>3801371</u>	6	Unit injector
1	<u>21379944</u>	6	Unit injector
2	<u>276948</u>	1	 O-ring kit
3	<u>21261987</u>	1	 Washer
			SN2016021776-
4	21801388	6	Yoke
5	<u>21344774</u>	6	Flange screw
6	<u>983472</u>	1	Cable tie
			For cable to unit in
7	<u>8131393</u>	1	Retainer
			For cable to unit in

19 - INLET MANIFOLD



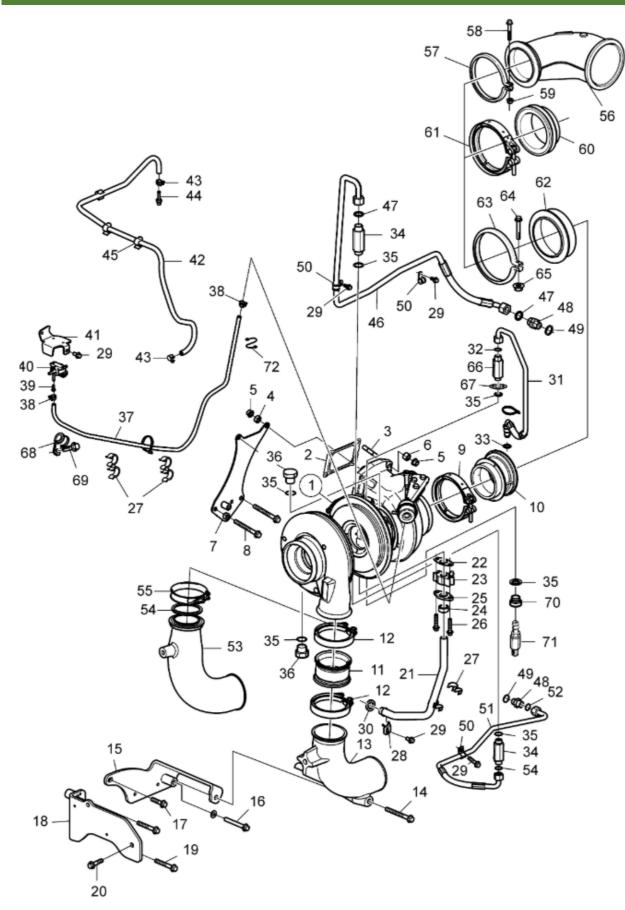
#	Part no	Qty	Description
1	20970992	1	Inlet manifold
2	20563945	1	 Seal
3	<u>996457</u>	12	Flange screw
4	22554715	1	Intermediate housing
5	<u>3979639</u>	2	Plane gasket
6	21308891	1	Charge air pipe
7	21313833	2	Gasket
8	21158651	1	Dummy
9	<u>984744</u>	4	Flange screw
10	21308893	1	Connection pipe
11	<u>984741</u>	4	Flange screw
12	<u>3979639</u>	1	Plane gasket
13	<u>984736</u>	8	Flange screw

20 - EXHAUSING MANIFOLD



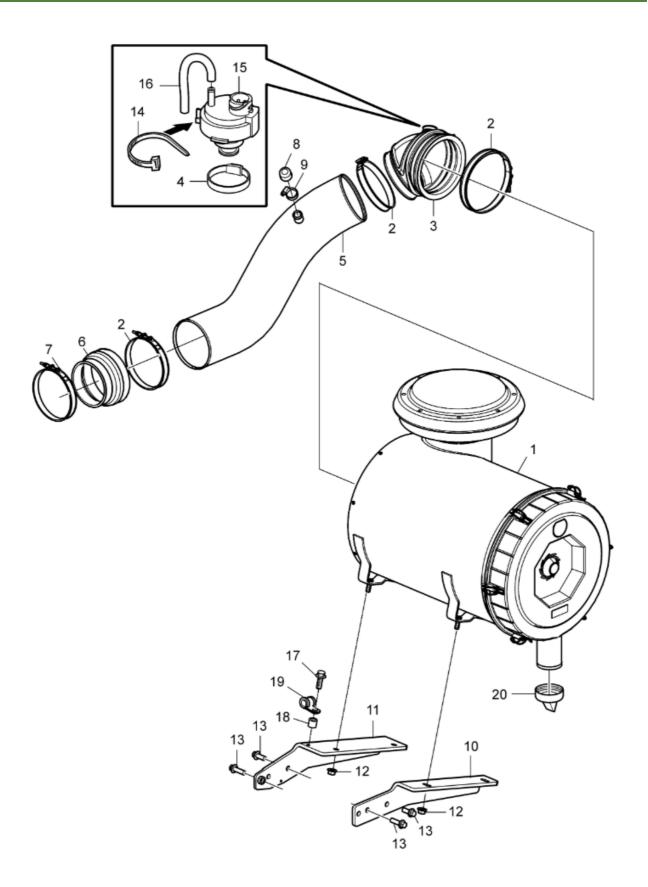
#	Part no	Qty	Description
1	17225285	1	Exhaust manifold
2		1	 Exhaust manifold
3	20901584	2	 Exhaust manifold
4	20938964	1	 Sealing kit
5	21695684	2	 Sealing ring
6	<u>591247</u>	1	 Sealant
7	<u>1546517</u>	24	Spacer sleeve
8	21344787	24	Flange screw
9	21352841	6	Gasket
10	22707542	1	Gasket

21 - TURBOCHARGER



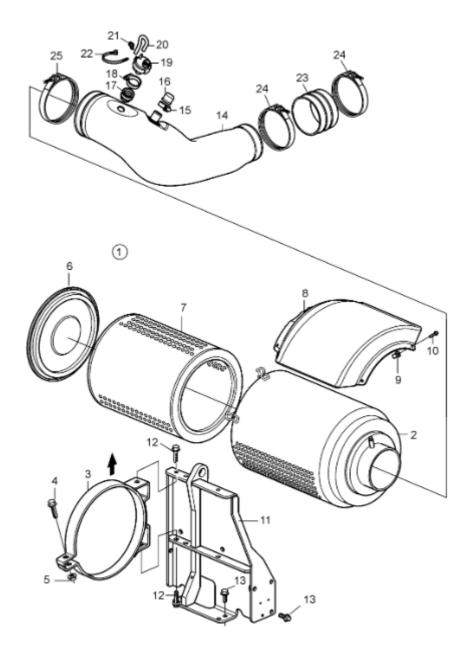
1 3801669 1 Turbocharger 1 22283878 1 Turbocharger 2 22707542 1 Gasket 3 21345127 4 Stud 4 60112076 2 Spacer sleeve 5 994628 4 Flange nut 6 60112113 2 Spacer sleeve 7 22632685 1 Support 8 94386 3 Flange screw 11 15185107 1 Charge air hose 12 20592733 2 V-clamp 13 2285061 1 Flange screw 14 984752 1 Flange screw 15 22608053 1 Bracket 16 984752 1 Flange screw 17 989445 1 Return pipe 22 187574 1 Ganket 23 914572 1 Return pipe 23 914572	#	Part no	Qty	Description
1 22233878 1 Turbocharger 2 22707542 1 Gasket 3 21345127 4 Stud 4 60112076 2 Spacer sleeve 5 994628 4 Flange nut 6 60112113 2 Spacer sleeve 7 22632685 1 Support 8 994386 3 Flange screw 9 22576146 1 V-clamp 10 2264343 1 Charge air hose 12 20592783 2 V-clamp 13 22850363 1 Enarge screw 14 984753 1 Flange screw 15 22608053 1 Parage screw 16 984755 1 Flange screw 17 905415 1 Retainer 23 8148729 1 Contector 24 495601 1 Pole hange 25 495543 <td></td> <td></td> <td></td> <td></td>				
2 22707542 I Gasket 3 21345127 4 Stud 4 60112076 2 Spacer sleeve 5 994628 4 Flange nut 6 60112113 2 Spacer sleeve 7 22632685 1 Support 8 944386 3 Flange screw 9 22576146 1 V-clamp 10 22632635 1 Connecting pipe 11 15185107 1 Flange screw 12 20592783 2 V-clamp 13 22850361 1 Flange screw 14 984757 1 Flange screw 15 22608053 1 Relame 16 984757 1 Flange screw 17 969445 1 Plange screw 21 2299323 1 Relame 22 187575 1 Rosket 21 1 <				
3213451274Stud4601120762Spacer sleeve59946284Flange nut6601121132Spacer sleeve7226326851Support89943863Flange screw9225761461V-clamp10226434341Adapter11151851071Charge air hose12205927632V-clamp13228503631Connecting pipe149847631Flange screw15226080531Fracket169847571Flange screw179694451Flange screw18225820111Gasket299847551Flange screw209847551Flange screw2122929321Retainer22218757811Gosket2381487291Connector244696011Rubber moulding254695431Pipe flange269847335Flange screw212191524Retainer2820444301-O-ring31234371121Oil feed hose329769711-O-ring339769711Hose34233061021Hose35119986Gasket369605322Hose				_
4 6000000000000000000000000000000000000				
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8 994386 3 Flange screw 9 22576146 1 V-clamp 10 22643434 1 Adapter 11 15185107 1 Charge air hose 12 20592763 2 V-clamp 13 22850363 1 Connecting pipe 14 984753 1 Flange screw 15 22608053 1 Flange screw 16 984755 1 Flange screw 17 969445 1 Return pipe 22 187773 1 Gasket 23 9149729 1 Connector 24 469601 1 Rubber moulding 25 469543 1 Piorefange 26 984738 2 Flange screw 21 212512 4 Retainer 28 2084430 1 Lock brace 29 984733 5 Flange screw 21 <td< td=""><td>6</td><td><u>60112113</u></td><td>2</td><td>Spacer sleeve</td></td<>	6	<u>60112113</u>	2	Spacer sleeve
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18 22588011 1 Bracket 19 975103 2 Flange screw 20 984755 1 Flange screw 21 22929323 1 Return pipe 22 21875781 1 Gasket 23 8148729 1 Connector 24 469601 1 Rubber moulding 25 469543 2 Flange screw 26 984738 2 Flange screw 27 3121512 4 Retainer 28 20844430 1 Lock brace 29 984733 5 Flange screw 30 21940615 1 Sealing ring 31 23437112 1 O-ring 34 23306101 2 Socket 35 11998 6 Gasket 36 960632 2 House 38 976573 2 Hose clamp 39 959187	16	<u>984757</u>	1	Flange screw
9 75103 2 Flange screw 20 984755 1 Flange screw 21 22929323 1 Return pipe 22 21875781 1 Gasket 23 8148729 1 Connector 24 469601 1 Rubber moulding 25 469543 1 Pipe flange 26 984738 2 Flange screw 27 3121512 4 Retainer 28 2084403 1 Lock brace 29 984733 5 Flange screw 30 21940615 1 Sealing ring 31 23437112 1 O-ring 33 976971 1 O-ring 34 23305101 2 Socket 35 11998 6 Gasket 36 960532 2 Plog 37 22496078 1 Hose 38 975573 2 <td>17</td> <td><u>969445</u></td> <td>1</td> <td>Flange screw</td>	17	<u>969445</u>	1	Flange screw
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27 3121512 4 Retainer 28 20844430 1 Lock brace 29 984733 5 Flange screw 30 21940615 1 Sealing ring 31 23437112 1 Oil feed hose 32 976014 1 - O-ring 33 976971 1 - O-ring 34 23306101 2 Socket 35 11998 6 Gasket 36 960632 2 Plug 37 22496078 1 Hose 38 976573 2 Hose clamp 39 959187 2 Hex. socket screw 40 3819161 1 Solenoid valve 41 21311241 Bracket 42 41 9131924 Hose 43 975269 2 Hose clamp 44 945713 2 Hore inple 45 984937 3 Retainer 46 22769764 1 Cooling hose	25	<u>469543</u>	1	Pipe flange
28 20844430 1 Lock brace 29 984733 5 Flange screw 30 21940615 1 Sealing ring 31 23437112 1 Oil feed hose 32 976014 1 O-ring 33 976971 1 O-ring 34 23306101 2 Socket 35 11998 6 Gasket 36 960632 2 Plug 37 22496078 1 Hose 38 976573 2 Hose clamp 39 959187 2 Hex. socket screw 40 3819161 1 Solenoid valve 41 21311241 1 Bracet 42 11158489 1 Hose 43 975269 2 Hose clamp 44 945713 2 Hose nipple 45 984937 3 Retainer 46 22769764 1 <td>26</td> <td><u>984738</u></td> <td>2</td> <td>Flange screw</td>	26	<u>984738</u>	2	Flange screw
9 984733 5 Flange screw 30 21940615 1 Sealing ring 31 23437112 1 Oil feed hose 32 976014 1 • O-ring 33 976971 1 • O-ring 34 23306101 2 Socket 35 11998 6 Gasket 36 960632 2 Plug 37 22496078 1 Hose 38 976573 2 Hose clamp 39 959187 2 Hex. socket screw 40 3819161 Solenoid valve 41 41 21311241 Bracket 42 42 11158459 1 Hose 43 975269 2 Hose clamp 44 945713 2 Hose nipple 45 984937 3 Retainer 46 22769764 1 Cooling hose 47 976971 <t< td=""><td></td><td></td><td></td><td></td></t<>				
30 21940615 1 Sealing ring 31 23437112 1 Oil feed hose 32 976014 1 • O-ring 33 976971 1 • O-ring 34 23306101 2 Socket 35 11998 6 Gasket 36 960632 2 Plug 37 22496076 1 Hose 38 976573 2 Hose clamp 39 959187 2 Hex. socket screw 40 3819161 1 Solenoid valve 41 21311241 Bracket 1 42 11158489 1 Hose 43 975269 2 Hose clamp 44 945713 2 Hose nipple 45 984937 3 Retainer 46 22769764 1 Cooling hose 47 976971 2 • O-ring 48 963948 2 Nipple 50 190635 3 Clamp <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
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37 22496076 1 Hose 38 976573 2 Hose clamp 39 959187 2 Hex. socket screw 40 3819161 1 Solenoid valve 41 21311241 1 Bracket 42 11158489 1 Hose 43 975269 2 Hose nipple 44 945713 2 Hose nipple 44 945713 2 Hose nipple 45 984937 3 Retainer 46 22769764 1 Cooling hose 47 976971 2 - O-ring 48 963948 2 Nipple 49 11996 2 Gasket 50 190635 3 Clamp 51 22485876 1 Hose 52 976971 2 - O-ring 53 22322833 1 Connecting pipe 54 1675066 1 Sealing ring 55 3886542 1 V-clamp	35	<u>11998</u>	6	Gasket
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44 945713 2 Hose nipple 45 984937 3 Retainer 46 22769764 1 Cooling hose 47 976971 2 - O-ring 48 963948 2 Nipple 49 11996 2 Gasket 50 190635 3 Clamp 51 22485876 1 Hose 52 976971 2 - O-ring 53 22322833 1 Connecting pipe 54 1675066 1 Sealing ring 55 3886542 1 V-clamp 56 21308859 1 Exhaust pipe 57 467310 1 V-clamp 58 994441 1 Flange lock nut 60 22706523 1 Flange 61 22576146 1 V-clamp 62 3887783 1 Flange 63 467310 1 V-clamp 64 994411 1 Flange lock nut	42	<u>11158489</u>	1	Hose
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55 3886542 1 V-clamp 56 21308859 1 Exhaust pipe 57 467310 1 V-clamp 58 994441 1 Flange screw 59 990950 1 Flange lock nut 60 22706523 1 Flange 61 22576146 1 V-clamp 62 3887783 1 Flange 63 467310 1 V-clamp 64 994441 1 Flange screw 65 990950 1 Flange lock nut 66 23306100 1 Nipple 67 22206133 1 Gasket 68 949746 1 Clamp 69 984751 1 Flange screw 70 16381 1 Plug 71 966871 1 Shut-off cock				
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62 3887783 1 Flange 63 467310 1 V-clamp 64 994441 1 Flange screw 65 990950 1 Flange lock nut 66 23306100 1 Nipple 67 22206133 1 Gasket 68 949746 1 Clamp 69 984751 1 Flange screw 70 16381 1 Plug 71 966871 1 Shut-off cock	60	22706523	1	Flange
63 467310 1 V-clamp 64 994441 1 Flange screw 65 990950 1 Flange lock nut 66 23306100 1 Nipple 67 22206133 1 Gasket 68 949746 1 Clamp 69 984751 1 Flange screw 70 16381 1 Plug 71 966871 1 Shut-off cock		22576146	1	
64 994441 1 Flange screw 65 990950 1 Flange lock nut 66 23306100 1 Nipple 67 22206133 1 Gasket 68 949746 1 Clamp 69 984751 1 Flange screw 70 16381 1 Plug 71 966871 1 Shut-off cock				
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67 22206133 1 Gasket 68 949746 1 Clamp 69 984751 1 Flange screw 70 16381 1 Plug 71 966871 1 Shut-off cock				
68 949746 1 Clamp 69 984751 1 Flange screw 70 16381 1 Plug 71 966871 1 Shut-off cock				
69 984751 1 Flange screw 70 16381 1 Plug 71 966871 1 Shut-off cock				
71 966871 1 Shut-off cock				
	70	<u>16381</u>	1	Plug
72 78466868 1 Retainer				
	72	78466868	1	Retainer

22 - AIR FILTER



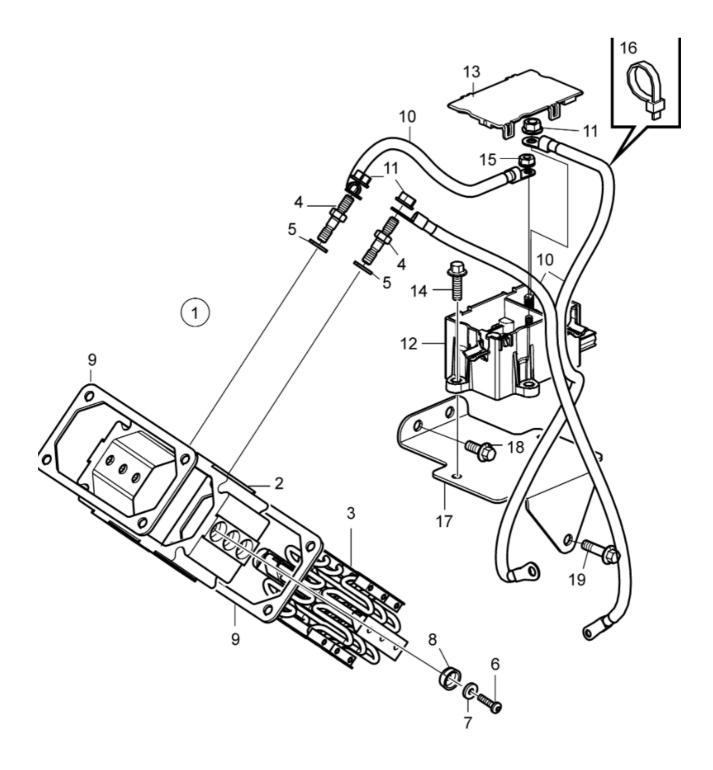
1 22222434 1 Air cleaner 2 1674223 1 Hose clamp 3 8149322 1 Hose 4 994561 1 Hose clamp 5 21405819 1 Connecting pip 6 21160546 1 Rubber collar)e
3 8149322 1 Hose 4 994561 1 Hose clamp 5 21405819 1 Connecting pip 6 21160546 1 Rubber collar)e
4 994561 1 Hose clamp 5 21405819 1 Connecting pip 6 21160546 1 Rubber collar)e
5 21405819 1 Connecting pip 6 21160546 1 Rubber collar)e
6 <u>21160546</u> 1 Rubber collar	e
7 4544725 4 Uses slaves	
7 <u>1544735</u> 1 Hose clamp	
8 845422 1 Plastic plug	
9 994559 1 Hose clamp	
10 21377722 1 Bracket	
11 21409030 1 Bracket	
12 990942 4 Flange nut	
13 984816 6 Flange screw	
14 994561 1 Hose clamp	
15 23307414 1 Vacuum switch	٦
16 949931 1 Hose	
17 994386 1 Flange screw	
18 807257 1 Spacer sleeve	
19 949746 1 Clamp	
20 21314482 1 Outlet valve	

23 - AIR FILTER COMPONENTS



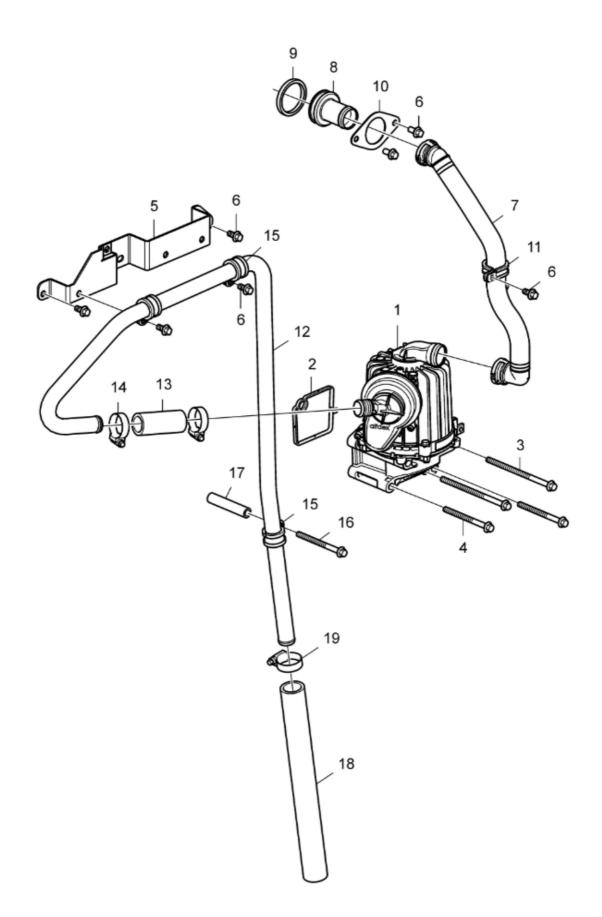
#	Part no	Qty	Description
1	22227756	1	Air filter
2		1	 Filter housing
3		2	 Tensioning band
4		2	Screw
5		2	• • Nut
6		1	• Cap
7	21702911	1	 Air filter insert
8	<u>3830971</u>	1	Rain cap
9	<u>930760</u>	4	Expanding nut
10	<u>984727</u>	4	Flange screw
11	21395717	1	Bracket
12	<u>984753</u>	4	Flange screw
13	<u>984815</u>	10	Flange screw
14	22148892	1	Connection pipe
15	22274884	1	Hose clamp
16	<u>845422</u>	1	Plastic plug
17	22092074	1	Retainer
18	<u>994561</u>	1	Hose clamp
19	23307414	1	Vacuum switch
20	<u>949931</u>	1	Hose
			L=150mm
21	<u>948702</u>	1	Cable tie
22	<u>948210</u>	1	Cable tie
23	21488062	1	Rubber collar
24	<u>1544735</u>	2	Hose clamp
25	<u>1674223</u>	1	Hose clamp

24 - STARTER ELEMENT



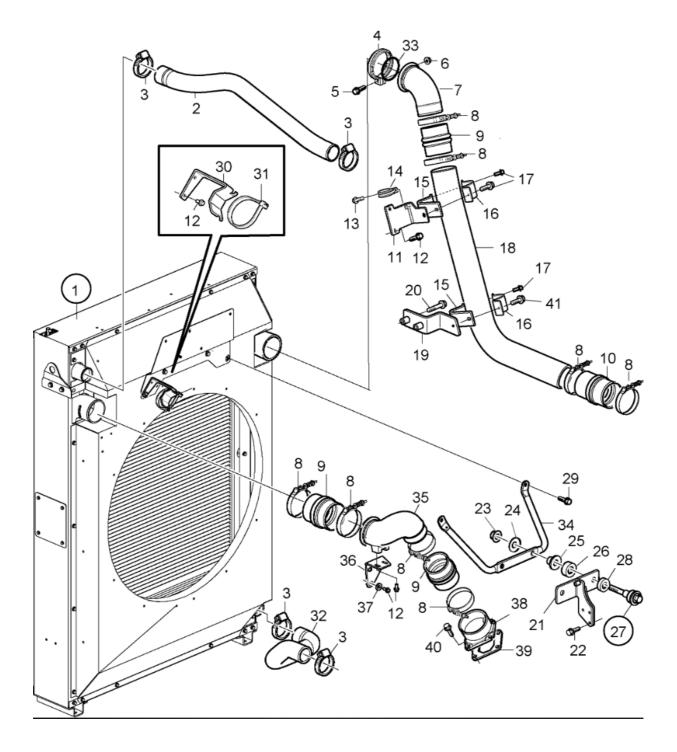
#	Part no	Qty	Description
1	22504359	1	Starter element
2		1	 Intermediate section
3		1	 Wire element
4		2	Terminal screw
5	<u>192288</u>	2	 Washer
6		12	 Six point socket
7	<u>960138</u>	12	 Washer
8	20942283	6	 Sleeve
9	<u>3979639</u>	2	Plane gasket
10	21917020	1	Wiring harness
11	<u>983715</u>	3	Hexagon nut
12	23314469	1	Relay
13	21930585	1	Cover
14	60113519	3	Flange screw
15	<u>983714</u>	1	Hexagon nut
16	<u>948211</u>	1	Cable tie
17	21867511	1	Bracket
18	<u>984734</u>	2	Flange screw
19	<u>984736</u>	1	Flange screw

25 - CRANKCASE VENTILATION



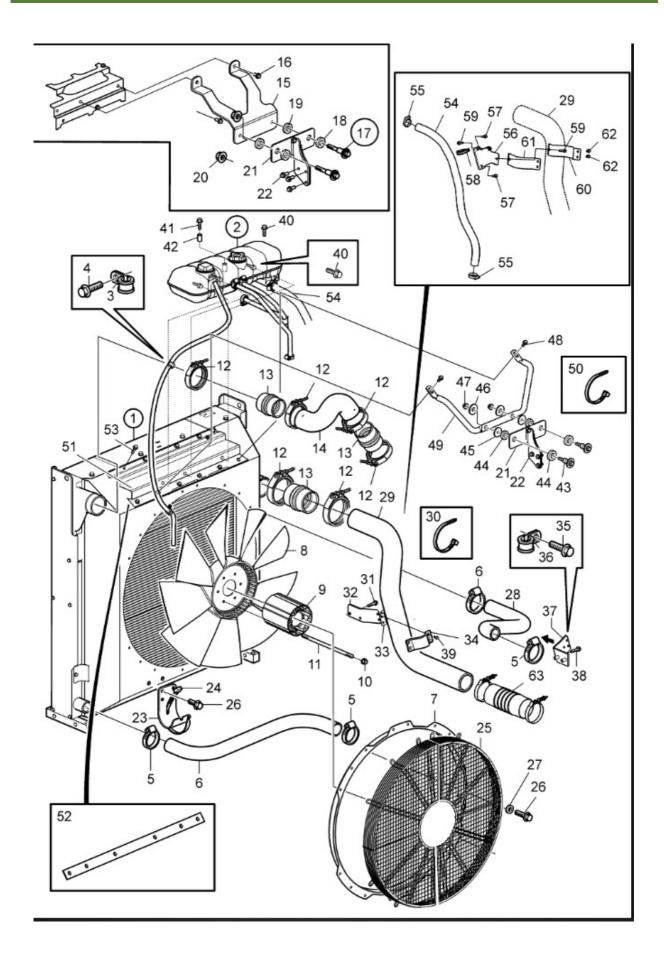
#	Part no	Qty	Description
1	<u>22767073</u>	1	Separator
2	<u>21718395</u>	1	Pipe
3	<u>984733</u>	8	Flange screw
4	<u>20519944</u>	1	Flange
5	<u>21681585</u>	1	Adapter
6	<u>20723207</u>	1	Sealing ring
7	<u>20580933</u>	1	Hose
8	<u>994560</u>	4	Hose clamp
9	<u>21866004</u>	1	Pipe
10	<u>942707</u>	1	Hose
11	<u>21865927</u>	1	Bracket
12		2	Clamp
13	<u>949997</u>	1	Clamp
14	<u>941976</u>	1	Clamp
15	<u>965577</u>	1	Bracket
16	<u>984753</u>	1	Flange screw
17	<u>990941</u>	1	Flange nut
18	<u>984734</u>	1	Flange screw
19	<u>990940</u>	1	Flange nut
20	<u>20532891</u>	1	Gasket
21	<u>984748</u>	2	Flange screw
22	<u>984744</u>	2	Flange screw

26 - RADIATOR



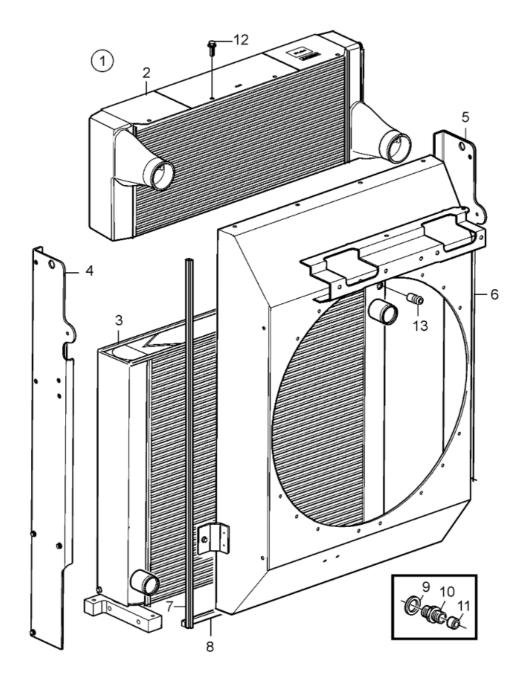
#	Part no	Qty	Description
1	Element		n
2	22140179	1	Hose
3	<u>994565</u>	4	Hose clamp
4	3033054	1	V-clamp
5	994441	1	Flange screw
6	990950	1	Flange lock nut
7	22035260	1	Connecting pipe
8	20435760	8	Hose clamp
9	3838792	3	Charge air hose
10	3829133	1	Charge air hose
11	23242492	1	Bracket
12	984733	9	Flange screw
12	984734	1	Flange screw
13	941976	1	Clamp
14			
	22285230		Clamping brace
16	22285225		Clamping brace
17	984734	3	Flange screw
18	22494914		Charge air pipe
19	22757119		Bracket
20	<u>990813</u>	2	Flange screw
21	3594409	1	Bracket
22	<u>984753</u>	3	Flange screw
23	<u>990942</u>	2	Flange nut
24	<u>948556</u>	2	Washer
25	22430803	2	Spacer sleeve
26	<u>866857</u>	2	Rubber bushing
27	22488137	2	Attaching fitting
28	<u>866857</u>	2	 Rubber bushing
29	<u>984752</u>	2	Flange screw
30	22162119	1	Bracket
31	<u>978435</u>	1	Cable tie
32	22037699	1	Hose
33	<u>949647</u>	1	O-ring
34	<u>3593807</u>	1	Stay
35	<u>23477801</u>	1	Connecting pipe
36	22471286	1	Bracket
37	<u>976944</u>	3	Washer
38	22150844	1	Connecting pipe
39	21313833	<u>1</u>	Gasket
40	<u>984744</u>	4	Flange screw

27 - COOLING SYSTEM



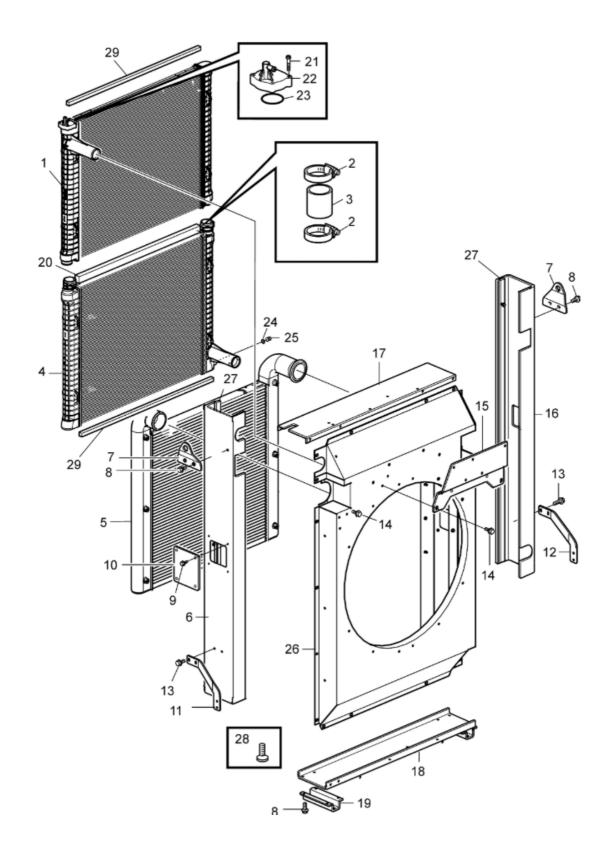
#	Part no	Qty	Description
1	Cooling uni	it	
1	Cooling uni	<u>it</u>	
2	<u>1674916</u>	1	Expansion tank
~	00075000		SN-2016125842
2	23275232	1	Expansion tank SN2016125843-
3	942810	2	Clamp
4 5	<u>984734</u>	2	Flange screw Hose clamp
5 6	<u>994565</u> 21888852	4	Hose
7	3827612	1	Fan ring
8	3828963	1	Fan
8	3828964	1	Suction type Fan
9	<u>3829537</u>	1	Pusher type Fan hub
9	21418129	1	Pusher type, L=195mm Fan hub
10	990941	6	Suction type, L=210mn Flange nut
11	<u>130204</u>	6	Stud Pusher type
11	<u>981952</u>	6	Stud
12	20425725	_	Suction type
12 13	20435760 3838792	8	Hose clamp Charge air hose
13 14	22185615	э 1	Pipe
15	22546256	1	Brace
			SN-2016110739
16	<u>984752</u>	2	Flange screw
17	<u>22488137</u>	2	Attaching fitting
18	866857	2	Rubber bushing
19 20	866857 990942	2	Rubber bushing Flange nut
20 21	<u>3594409</u>	2	Bracket
22	<u>984753</u>	3	Flange screw
23	22036724	1	Bracket
24	<u>980464</u>	1	Cable tie
25	22118112	2	Fan guard
26	984734	12	Flange screw
27	<u>976944</u>	12	Washer
28 29	21888849	1	Hose Charge air pipe
29	22496578	1	SN-2016102240
	22828397		Charge air pipe SN2016102241-
30 31	<u>948211</u> <u>990810</u>	2	Cable tie Flange screw
32	<u>22757119</u>	2	Bracket
33		1	Bracket
34	22285230	1	Clamping brace
35	<u>984734</u>	3	Flange screw
36	<u>941976</u>	1	Clamp
37			
		1	Bracket
38	<u>984739</u>	2	Flange screw
39	<u>990813</u>	2 2	Flange screw Flange screw
	990813 984733	2	Flange screw
39 40	<u>990813</u>	2 2 4	Flange screw Flange screw Flange screw
39 40 41	990813 984733 994386	2 2 4 1	Flange screw Flange screw Flange screw Flange screw
39 40 41 42	990813 984733 994386 848694	2 2 4 1 1	Flange screw Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting Rubber bushing
39 40 41 42 43 44 45	990813 984733 994386 848694 22488137	2 2 4 1 1 1	Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting Rubber bushing Spacer sleeve
39 40 41 42 43 44 45 46	990813 984733 994386 848694 22488137 866857 22430803 60113331	2 2 4 1 1 1 4 2 2	Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting Rubber bushing Spacer sleeve Washer
 39 40 41 42 43 44 45 46 47 	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942	2 2 4 1 1 1 4 2 2 2	Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting • Rubber bushing Spacer sleeve Washer Flange nut
 39 40 41 42 43 44 45 46 47 48 	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 969445	2 2 4 1 1 1 2 2 2 2 2 2	Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting • Rubber bushing Spacer sleeve Washer Flange nut Flange screw
39 40 41 42 43 44 45 46 47 48 49	990813 984733 994386 848694 22488137 22430803 60113331 990942 990942 939445	2 2 4 1 1 1 4 2 2 2 2 2 1	Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting Spacer sleeve Washer Flange nut Flange screw Stay SN-2016123901
 39 40 41 42 43 44 45 46 47 48 49 49 	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 969445 23109845 23109845	2 2 4 1 1 1 4 2 2 2 2 2 1 1	Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting • Rubber bushing Spacer sleeve Washer Flange nut Flange screw Stay SN-2016123901 Stay SN2016123902-
 39 40 41 42 43 44 45 46 47 48 49 49 50 	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 969445 23109845 23109845 23486385	2 2 4 1 1 1 1 2 2 2 2 2 1 1 5	Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting - Rubber bushing Spacer sleeve Washer Flange nut Flange nut Flange screw Stay SN-2016123901 Stay SN2016123902- Cable tie
 39 40 41 42 43 44 45 46 47 48 49 49 50 51 	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 969445 23109845 23109845 23486385 980464 23276869	2 2 4 1 1 1 4 2 2 2 2 2 1 1 5 5	Flange screw Flange screw Flange screw Flange screw Flange screw Attaching fitting Flange screw Washer Flange nut Flange nut Flange screw Stay SN-2016123901 Stay SN2016123902- Cable tie Bracket
 39 40 41 42 43 44 45 46 47 48 49 49 50 	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 969445 23109845 23109845 23109845 2310845 23276869 23276869 23276871	2 2 4 1 1 1 4 2 2 2 2 1 1 5 1 1	Flange screw Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting Spacer sleeve Washer Flange nut Flange screw Stay SN-2016123901 Stay SN2016123902- Cable tie Bracket
39 40 41 42 43 44 45 46 47 48 49 49 50 51 52	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 969445 23109845 23109845 23486385 980464 23276869	2 2 4 1 1 1 4 2 2 2 2 1 1 5 1 1	Flange screw Flange screw Flange screw Flange screw Flange screw Attaching fitting Flange screw Washer Flange nut Flange nut Flange screw Stay SN-2016123901 Stay SN2016123902- Cable tie Bracket
39 40 41 42 43 44 45 46 47 48 49 49 50 51 51 52 53	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 969445 23109845 23109845 23486385 980464 23276871 984752	2 2 4 1 1 1 4 2 2 2 2 2 1 1 5 1 1 1 0	Flange screw Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting Spacer sleeve Washer Flange nut Flange screw Stay SN-2016123901 Stay SN2016123902- Cable tie Bracket Flange screw Flange screw
39 40 41 42 43 44 45 46 47 48 49 50 51 52 51 52 53 54	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 969445 23109845 23109845 23109845 23486385 980464 23276869 23276871 984752 22198506	2 2 4 1 1 1 4 2 2 2 2 2 1 1 1 5 1 1 1 0 1	Flange screw Flange screw Flange screw Flange screw Flange screw Attaching fitting Plange releve Washer Flange nut Flange nut Flange screw Stay SN2016123901 Stay SN2016123902 Cable tie Bracket Flange screw Hose
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 52 53 54 55 55 55 55 55	990813 984733 994386 848694 22486137 866857 22430803 60113331 990942 969445 23109845 23109845 23109845 2310845 23276859 23276871 984752 22198506 924561 22827408 995463	2 2 4 1 1 1 4 2 2 2 2 2 1 1 1 5 1 1 1 0 1 2 1 2 2 2 2 1 1 1 2 1 2 2 2 2	Flange screw Flange screw Flange screw Flange screw Flange screw Attaching fitting Plange screw Vasher Flange nut Flange screw Stay SN-2016123901 Stay SN-2016123902- Cable tie Bracket Flange screw Hose Campania Flange screw
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 53 54 55 56 57 58	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 980445 23109845 23109845 23109845 23276871 980464 23276879 23276871 984752 23276879 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 984752 23276871 23276777 232767777 23276777777777777777	2 2 4 1 1 1 4 2 2 2 2 2 2 1 1 1 5 1 1 1 1 0 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1	Flange screw Flange screw Flange screw Flange screw Flange screw Spacer sleeve Washer Flange nut Flange screw Stay SN-2016123901 Stay SN-2016123902- Cable tie Bracket Flange screw Hose Hose clamp Eracket Flange screw Clamp
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55 55 55 55 55 55 55 55 55 55	990813 984733 994386 848694 2248303 60113331 990942 969445 23109845 23109845 23109845 23276871 980464 23276871 984752 22198506 994561 22295403 994561 295463	2 2 4 1 1 1 4 2 2 2 2 2 2 1 1 1 1 1 1 1	Flange screw Flange screw Flange screw Flange screw Flange screw Attaching fitting Plange nut Flange nut Flange nut Flange screw Stay SN-2016123901 Stay SN2016123902- Cable tie Bracket Bracket Flange screw Hose Hose clamp Bracket Flange screw Flange screw Flange screw Flange screw Flange screw
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55 55 55 55 55 55 56 57 58 59 60	990813 984733 994386 848694 22483137 866857 22430803 60113331 990942 930942 930942 23109845 23109845 232486385 23248638 980464 23276869 23276871 984752 22198506 994561 22827408 994561 941976 884736	2 2 4 1 1 1 4 2 2 2 2 2 1 1 2 2 1 1 1 1	Flange screw Flange screw Flange screw Flange screw Flange screw Flange screw Attaching fitting Spacer sleeve Washer Flange nut Flange nut Flange nut Stay SN-2016123901 Stay SN-2016123902- Cable tie Bracket Flange screw Hose Hose clamp Bracket Flange screw Clamp Flange screw Clamping brace
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	990813 984733 994336 848694 22483137 866857 22430803 60113331 990942 930942 33109845 23109845 23109845 23276871 980464 23276869 23276871 984752 2219850 994561 994561 994563 941976 984736	2 2 4 1 1 1 4 2 2 2 2 2 2 1 1 1 1 1 1 1	Flange screw Flange screw Flange screw Flange screw Flange screw Flange screw Attaching fitting Spacer sleeve Washer Flange nut Flange nut Flange screw Stay SN-2016123901 Stay SN2016123902- Cable tie Bracket Flange screw Hose Hose Clamp Flange screw Clamp Flange screw Clamping brace
39 40 41 42 43 44 45 46 47 48 49 49 50 51 52 53 54 55 55 55 55 55 55 55 56 57 58 59 60	990813 984733 994386 848694 22483137 866857 22430803 60113331 990942 930942 23109845 23109845 23109845 23276871 980464 23276869 23276871 984752 22198506 994561 22827408 994561 93475 2387408	2 2 4 1 1 1 4 2 2 2 2 2 2 2 1 1 1 1 1 1	Flange screw Flange screw Flange screw Flange screw Flange screw Attaching fitting Spacer sleeve Washer Flange nut Flange nut Flange nut Flange screw Stay SN-2016123901 Stay SN-2016123902 Cable tie Bracket Flange screw Hose Hose Hose Clamp Flange screw Clamp Flange screw Clamping brace
39 40 41 42 43 44 45 46 47 48 49 49 50 51 52 53 55 55 55 55 55 55 55 55 55 55 56 57 58 59 60 61 62	990813 984733 994386 848694 22488137 866857 22430803 60113331 990942 969445 23109845 23109845 23109845 23276879 23276871 984752 23276871 984752 23276871 984754 2327689 23276871 984754 2327687 994561 2327687 994563 994563 2327687 994563 2327687 994563 2327687 995463 995463 995463 995463 995463 995473 954736	2 2 4 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 1 2	Flange screw Flange screw Flange screw Flange screw Flange screw Spacer sleeve Attaching fitting Spacer sleeve Washer Flange nut Flange screw Stay SN-2016123901 Stay SN-2016123902 Cable tie Bracket Flange screw Hose Hose clamp Bracket Flange screw Clamping brace Flange screw Clamping brace

28 - RADIATOR CASE



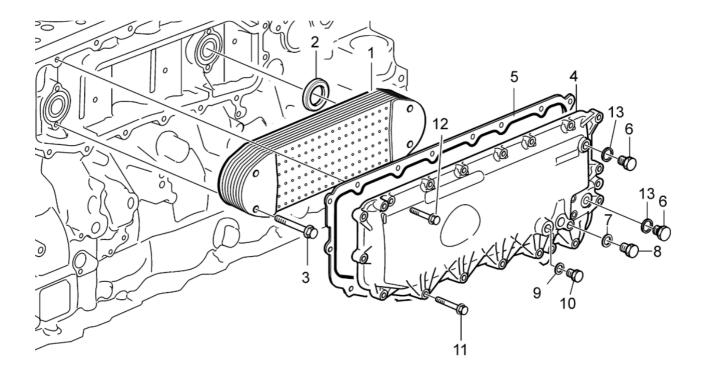
#	Part no	Qty	Description
1		1	Cooling unit
			SN-2016110739
1		1	Cooling unit
			SN2016110740-
2	<u>22257084</u>	1	Charge air cooler
3	<u>22257085</u>	1	Radiator
4	<u>22257083</u>	1	Frame
5	<u>22257086</u>	1	Frame
6	<u>22257075</u>	1	Fan shroud
			SN-2016110739
6	<u>23122124</u>	1	Fan shroud
			SN2016110740-
7	<u>22257079</u>	2	Seal
8	<u>22257082</u>	1	Seal
9	<u>948885</u>	1	Gasket
10	<u>1676622</u>	1	Quick coupling
11	<u>476279</u>	1	Protecting cap
12	<u>984733</u>	6	Flange screw
13	<u>947043</u>	1	Hose nipple

29 - RADIATOR AND CHARGER AIR COOLER



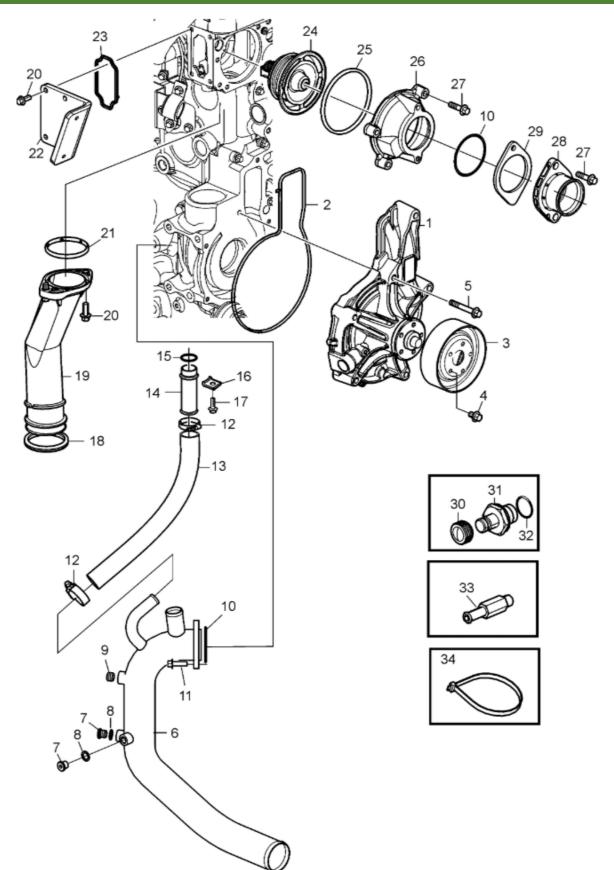
#	Part no	Qty	Description
1	22075187	1	Radiator
			SN-2016107666
1	23019542	1	Radiator
			SN2016107734-
2	<u>961672</u>	4	Hose clamp
3	22075129	2	Hose
4	<u>22075185</u>	1	Radiator
			SN-2016107666
4	<u>23019545</u>	1	Radiator
			SN2016107734-
5	22484849	1	Charge air cooler
			SN-2016107666
5	23014436	1	Charge air cooler
			SN2016107734-
6	22075126	1	Frame
7	22075131	2	Bracket
8	<u>984752</u>	8	Flange screw
9	22155655	2	Plate
10	<u>984724</u>	8	Flange screw
11	<u>3808827</u>	1	Bracket
12	<u>3808825</u>	1	Bracket
13	<u>984734</u>	4	Flange screw
14	<u>984733</u>	50	Flange screw
15	22272317	1	Bracket
16	22075124	1	Frame
17	22075194	1	Frame
18	22075123	1	Frame
19	22075190	2	Bracket
20	22075119	1	Seal
21	<u>996061</u>	4	Flange screw
22	22347421	1	Plate
23	22347412	1	Sealing ring
24	22347426	1	O-ring
25	22347425	1	Plug
26	22465255	1	Cover
27	22343834	2	Seal
28	22397409	4	Hex. socket sunk scr
29	22837691	2	Seal

30 - OIL COOLER



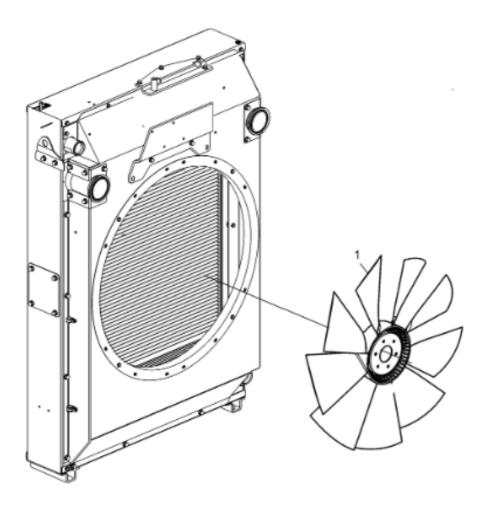
#	Part no	Qty	Description
1	<u>20700516</u>	1	Oil cooler
2	<u>20551483</u>	2	Sealing ring
3	<u>991606</u>	4	Flange screw
4	<u>21426900</u>	1	Cover
5	<u>21302234</u>	1	Gasket
6	<u>960630</u>	1	Plug
7	<u>11994</u>	1	Gasket
8	<u>960629</u>	1	Plug
9	<u>21024032</u>	1	Sealing ring
10	<u>21666520</u>	1	Plug
11	<u>984739</u>	3	Flange screw
12	<u>984738</u>	11	Flange screw
13	<u>969011</u>	2	Gasket

31 - COOLING WATER PUMP



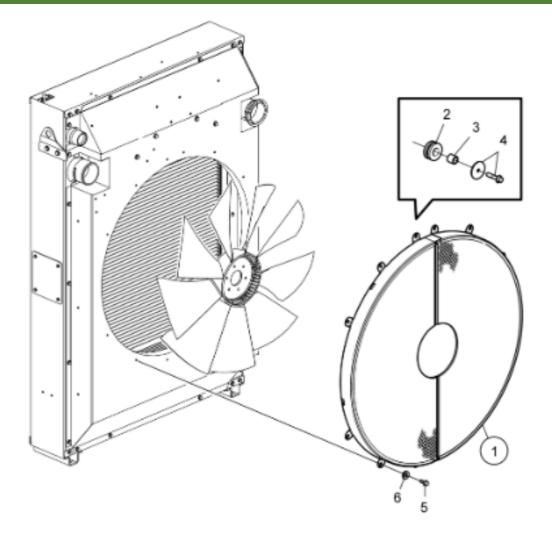
#	Part no	Qty	Description
1	<u>3801418</u>	1	Coolant pump
1	22195450	1	Pump unit
			SN-2016101135
1	22902431	1	Coolant pump
			SN2016101136-
1	<u>3801741</u>	1	Coolant pump, exch
2	<u>21103569</u>	1	Rubber moulding
3	20538853	1	Pulley
4	<u>984732</u>	5	Flange screw
5	<u>994386</u>	6	Flange screw
6	22769772	1	Coolant pipe
7	<u>945065</u>	2	 Plug
8	<u>969011</u>	2	 Gasket
9	<u>968063</u>	2	 Plug
10	<u>975675</u>	2	O-ring
11	<u>984735</u>	2	Flange screw
12	<u>21078879</u>	2	Hose clamp
13	<u>969033</u>	1	Rubber hose
14	<u>3838735</u>	1	Connection pipe
15	<u>1547252</u>	1	Sealing ring
16	<u>1546531</u>	1	Lock brace
17	<u>984732</u>	1	Flange screw
18	20799996	1	Sealing ring
19	21420336	1	Connection pipe
20	<u>984734</u>	6	Flange screw
21	21423788	1	Sealing ring
22	22063304	1	Cover
23	<u>8131154</u>	1	Seal
24	21613426	1	Thermostat
25	21503575	1	 Sealing ring
26	<u>3838404</u>	1	Cover
27	<u>984736</u>	6	Flange screw
28	21843564	1	Coolant pipe
29		1	 Bracket
30	<u>476279</u>	1	Protecting cap
31	<u>1676622</u>	1	Quick coupling
32	<u>979099</u>	1	Gasket
33	<u>996429</u>	1	Hose nipple
34	<u>980464</u>	1	Cable tie

32 - FAN



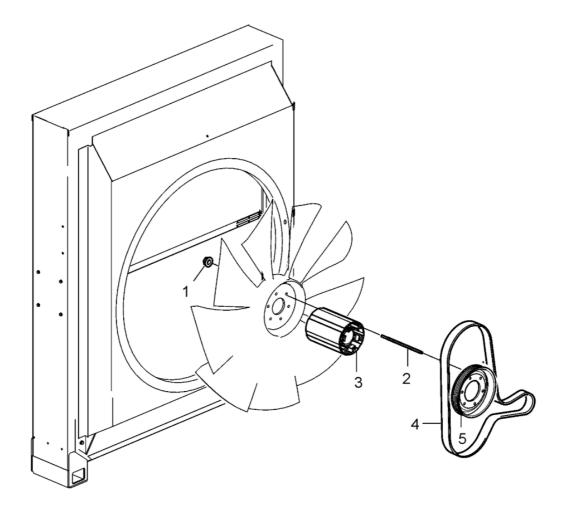
#	Part no	Qty	Description
1	3828964	1	Fan
			Pushing fan

33 - FAN SHROUD



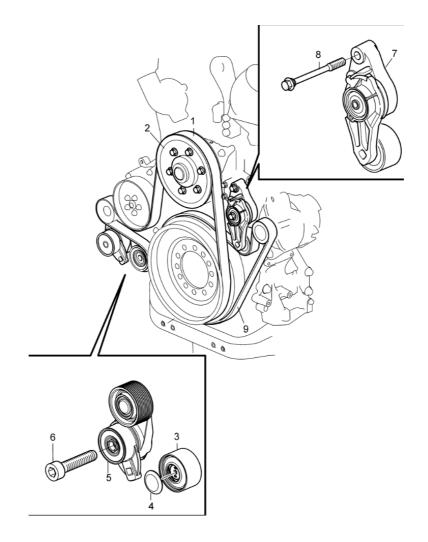
#	Part no	Qty	Description
1	<u>21784986</u>	2	Fan guard
			SN-2016107282
1	<u>78467466</u>	2	Fan guard
			SN2016107283-
2	<u>21860181</u>	12	 Rubber damper
3	<u>845988</u>	12	 Spacer sleeve
4	22147274	12	 Flange screw
5	<u>984733</u>	12	Flange screw
			For Fan Guard :
6	<u>976944</u>	12	Washer
			For Fan Guard

34 - FAN DRIVE



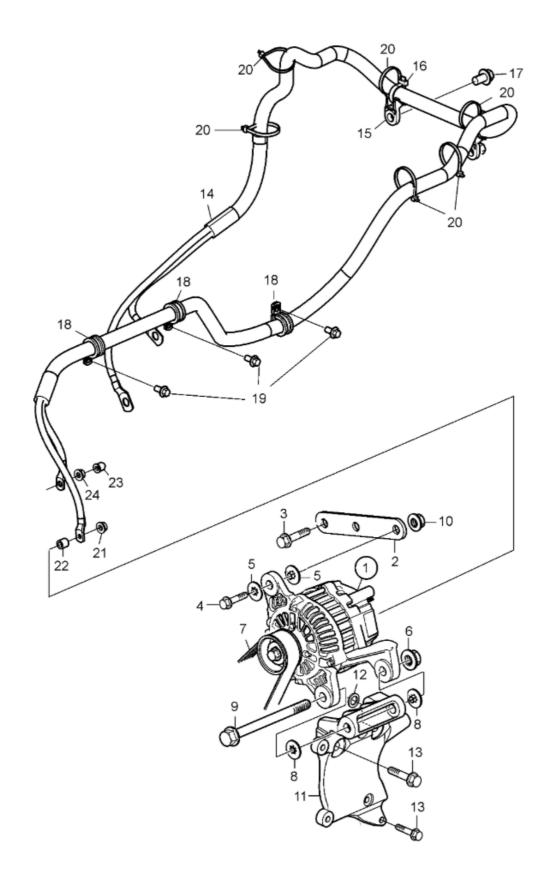
#	Part no	Qty	Description
1	<u>990941</u>	6	Flange nut
2	<u>130204</u>	6	Stud
3	<u>3829537</u>	1	Fan hub
4	70326597	1	V-ribbed belt
			For pulley 3828043
4	<u>3819398</u>	1	V-ribbed belt
			For pulley 3829957
4	<u>3838617</u>	1	V-ribbed belt
			For pulley 3829958
5	<u>3828043</u>	1	Pulley
			Ratio 1:1,08
5	<u>3829957</u>	1	Pulley
			Ratio 1:0,97
5	3829958	1	Pulley
			Ratio 1:1,0

35 - BELT TIGHTENER



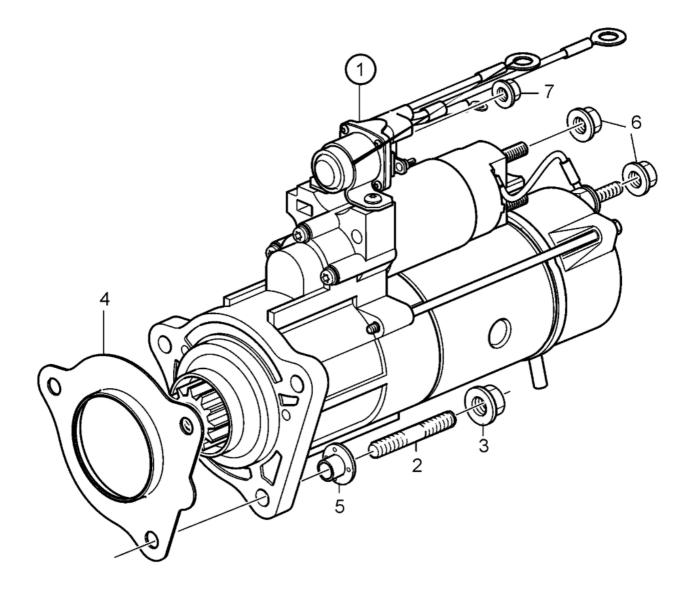
#	Part no	Qty	Description
1	70326597	1	V-ribbed belt
			For Pulley 3828043
1	<u>3819398</u>	1	V-ribbed belt
			For Pulley 3829957
1	<u>3838617</u>	1	V-ribbed belt
			For Pulley 3829958
2	<u>3828043</u>	1	Pulley
			Ratio 1:1,08 DIA 267
2	<u>3829957</u>	1	Pulley
			Ratio 1:0,93 DIA 244
2	<u>3829958</u>	1	Pulley
			Ratio 1:1,0 DIA 227m
3	<u>21676635</u>	1	Idler pulley
4	<u>21717627</u>	1	Dust cover
5	<u>21631484</u>	1	Belt tensioner
6	<u>959245</u>	1	Hex. socket screw
7	<u>21422767</u>	1	Belt tensioner
8	<u>21344756</u>	2	Flange screw
9	<u>20430376</u>	1	V-ribbed belt
			L=1320mm

36 - ALTERNATOR



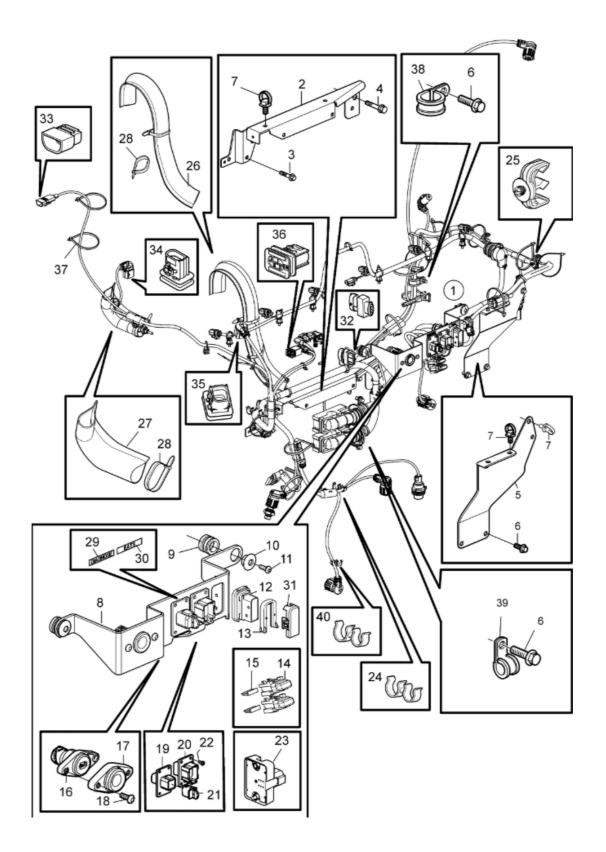
#	Part no	Qty	Description
1	21429786	1	Alternator
			28V 110A
1	22591478	1	Alternator 28V/150A
2	<u>3829091</u>	1	Bracket
3	<u>984738</u>	1	Flange screw
4	<u>984752</u>	1	Flange screw
5	<u>21308514</u>	2	Insulating bushing
6	<u>990950</u>	1	Flange lock nut
7	20430376	1	V-ribbed belt
8	21328137	2	Insulating bushing
9	<u>984826</u>	1	Flange screw
10	<u>990960</u>	1	Flange lock nut
11	<u>3885364</u>	1	Bracket
12	<u>8192190</u>	1	 Sealing ring
13	<u>969445</u>	4	Flange screw
14	<u>21915982</u>	1	Wiring harness
14	23239795	1	Wiring harness, Braided
15		2	Retainer
16	<u>980464</u>	2	Cable tie
17	<u>984813</u>	2	Flange screw
18	<u>990487</u>	5	Clamp
19	<u>984733</u>	2	Flange screw
20	<u>948211</u>	1	Cable tie
21	<u>983714</u>	2	Hexagon nut
22	<u>1357345</u>	1	Spacer sleeve
23	20576874	1	Cap plug
24	<u>983715</u>	1	Hexagon nut

37 - STARTER



Part no Qty Description
1 21103722 1 Starter motor
1 3801289 1 Starter motor, exch
2 953098 3 Stud
3 990942 3 Flange nut
4 <u>3888763</u> 1 Gasket
5 21308514 3 Insulating bushing
6 983717 2 Hexagon nut
7 <u>983714</u> 2 Hexagon nut

38 - ELECTRIC



#	Part no Q	ty	Description
1	23487217	1	Wiring harness
2	21927928	1	Bracket
3	<u>984737</u>	1	Flange screw
4	<u>984816</u>	2	Flange screw
5	22566969	1	Bracket
6	984733	6	Flange screw
7	<u>980881</u>	6	Cable tie
8	22860712	1	 Bracket
9	<u>1079687</u>	3	 Rubber cushion
10	<u>1079677</u>	3	Plug
11	<u>969598</u>	3	Six point socket scr
12	<u>994073</u>	1	Housing
13	<u>994291</u>	1	Adapter
14		2	Fuse holder
15	969161	1	Fuse
			10A
15	<u>969163</u>	1	Fuse
			25A
16	21827824	1	Button
17	21738845	1	Cover
18	<u>986214</u>	2	Six point socket scr
19	<u>992330</u>	1	Housing
20	874432	1	Tab housing
21	<u>3840433</u>	1	Sealing plug
22	972399	8	 Six point socket scr
23	21918597	1	Control unit
24	3121512	1	Retainer
25	20440940	2	Retainer
26	3170224	1	Tube
27	20711293	1	Tube
28	22343166	1	Cable tie
29	21243308	1	Decal
			Diagnose
30		1	Decal
			EATS
31	<u>995116</u>	1	Cover
32	60110756	1	Housing
33	<u>1307049</u>	1	Housing
34	<u>995107</u>	1	Cover
35	<u>995108</u>	1	Cover