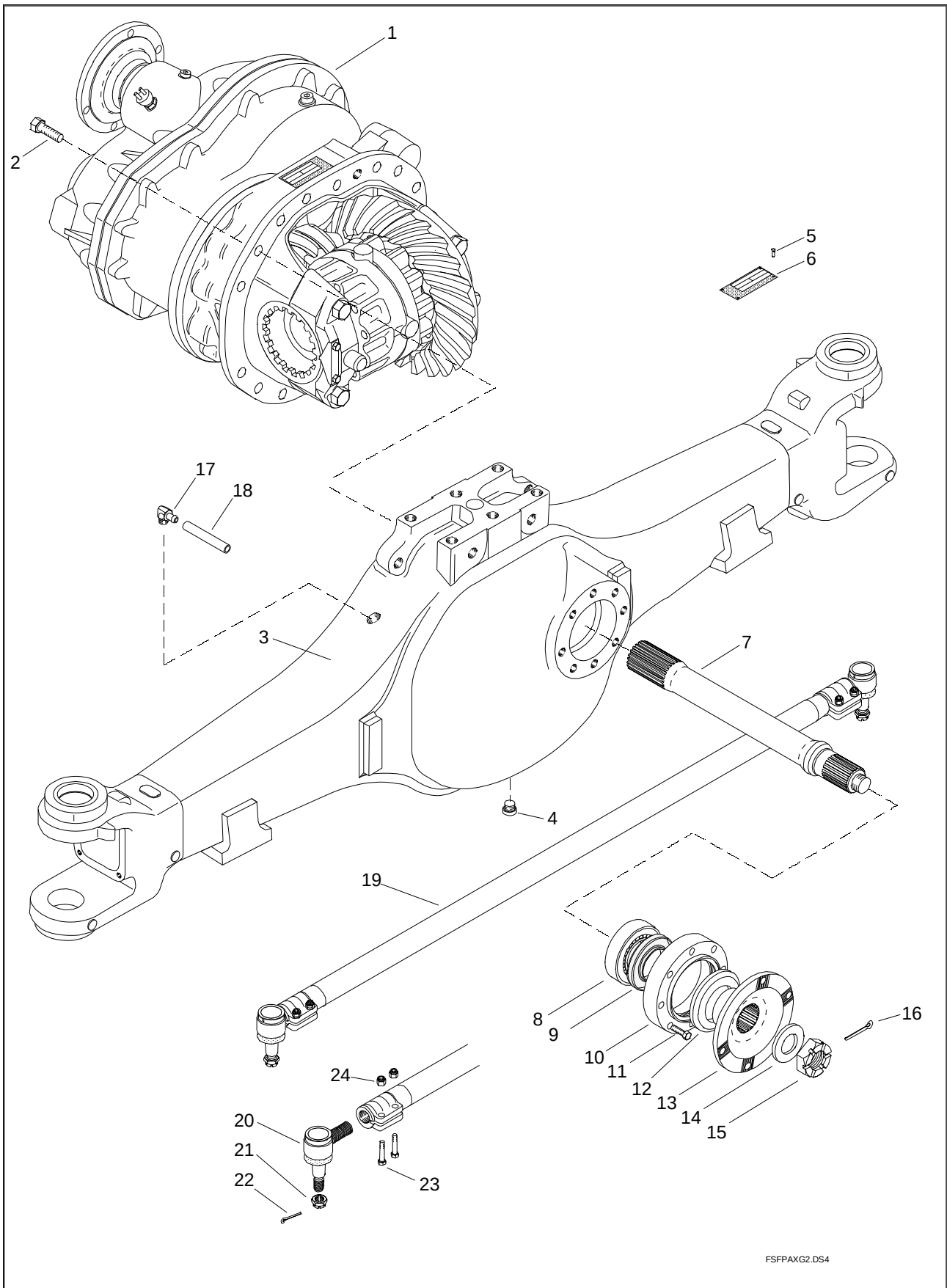


SISU AXLES

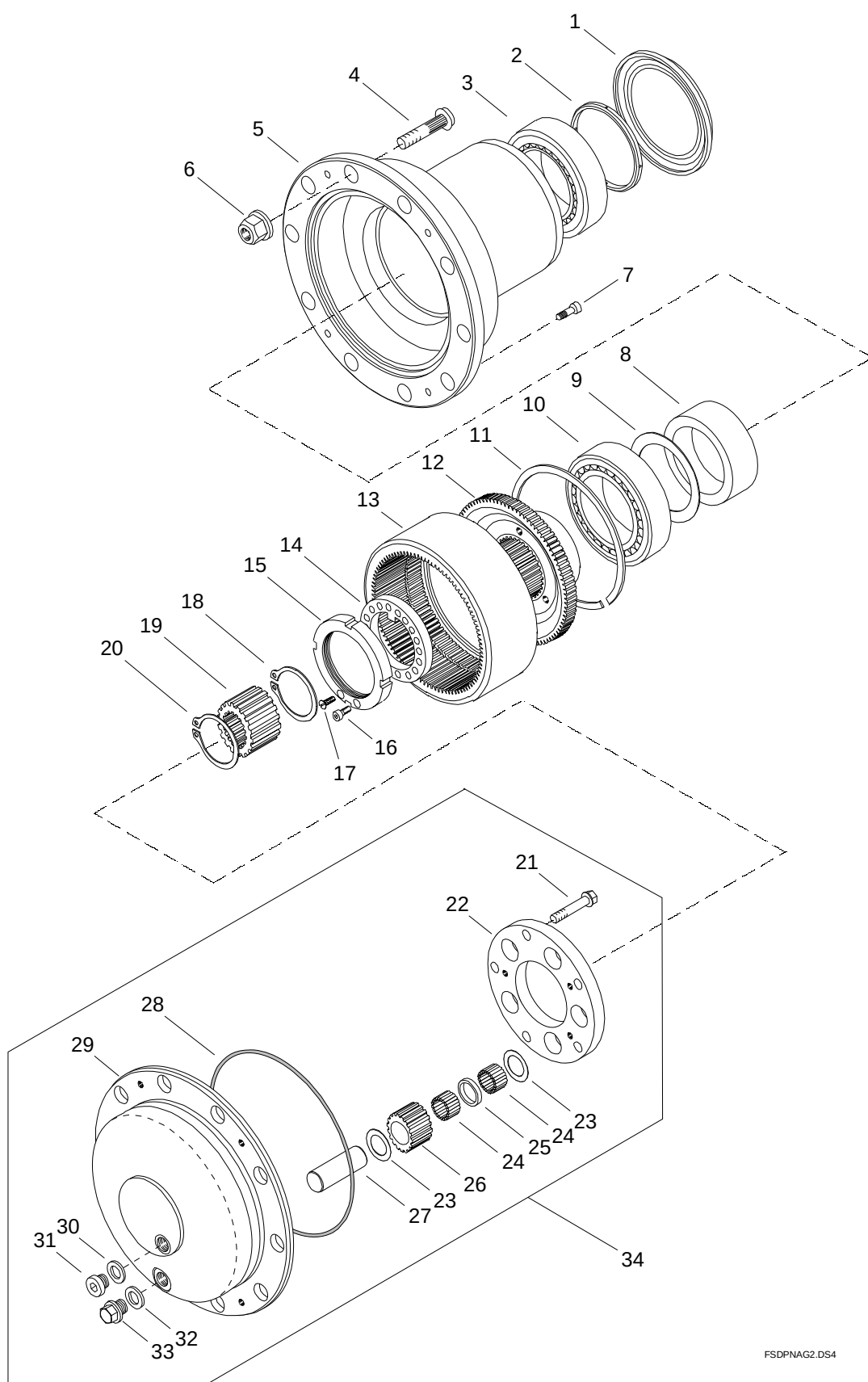
SPARE PARTS BOOK

**Tridem Axle
FSFP
FSFP-14-G
Since S/N 142864 (9/2004)
Book No. 352 (3/2007)**

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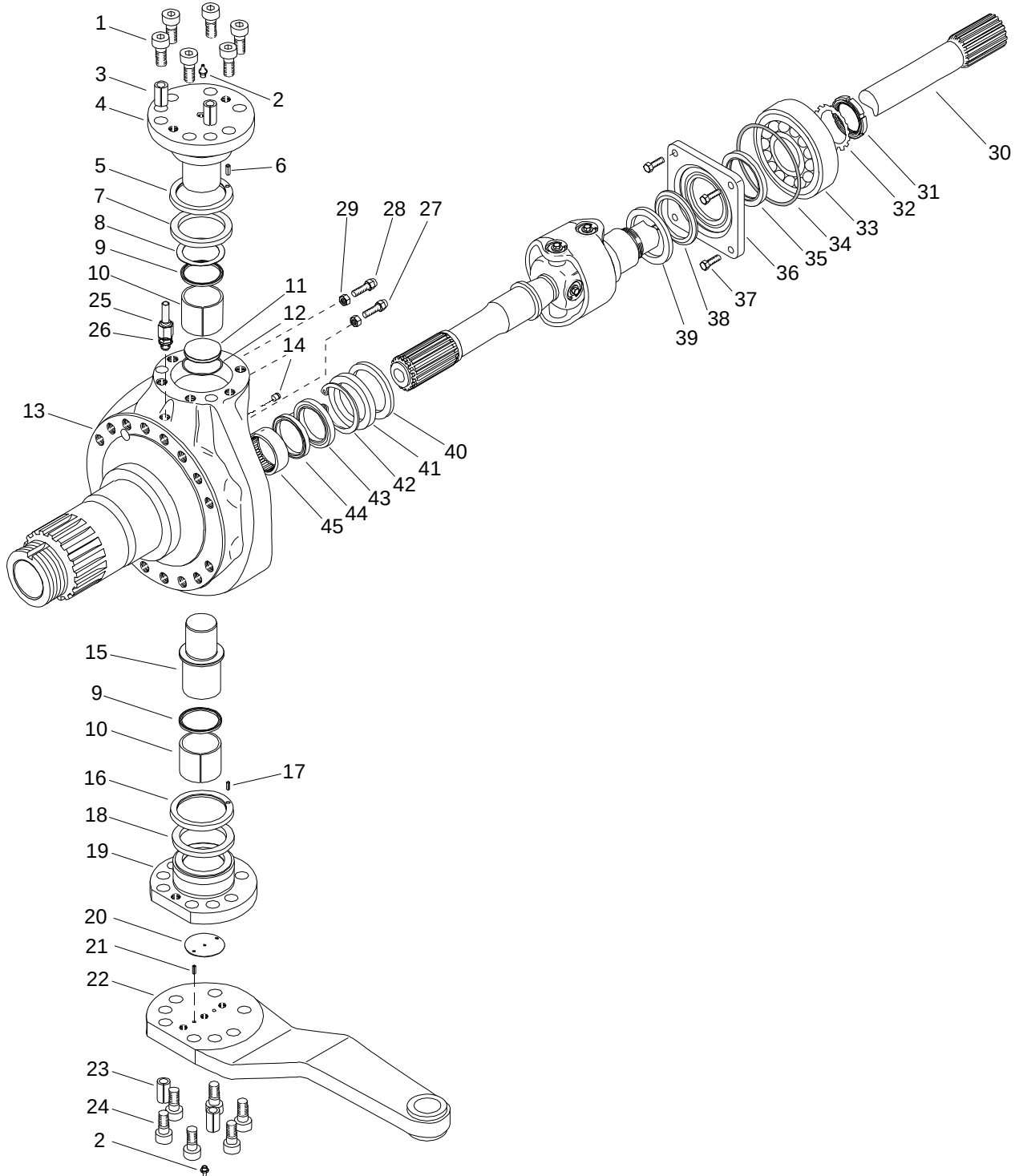


Item	Qty.	Order no.	Description	Note
1	1	544-206-5715	Diff. Carrier Assembly	FR 4.65, diff. lock, ISO-T180 flanges
1	1	544-206-5735	Diff. Carrier Assembly	FR 4.11, diff. lock, ISO-T180 flanges
1	1	544-206-5737	Diff. Carrier Assembly	FR 4.28, diff. lock, ISO-T180 flanges
1	1	544-207-5085	Diff. Carrier Assembly	FR 10.55, Pressure lubr, ISO-T180
2	16	90303-16407	Hex Screw	M16x40, 10.9
3	1	541-113-3300	Axle housing	Spring and steering cylinder brackets
4	1	90873-22109	Oil plug	M22x1.5 - DIN908, Allen head, magnetic
4	1	91201-22150	Seal ring	D22/27x1.5 Cu
5	4	90111-29054	Rivet	D2.9x5
6	1	591600-20823	Name plate	
7	1	544-251-3610	Output Shaft	Splines W65x24
8	1	91734-40651	Deep groove ball bearing	D65/120 x 23
9	1	591122-08507	Shaft seal	Cassette seal D85/120x9/20
10	1	544-321-0500	Seal housing	
11	8	90303-10303	Hex Screw	M10x30
12	0	0		
13	1	538-918-0510	Output flange	ISO 8667 - T180
14	1	90705-43069	washer	D43/80x6
15	1	90546-42653	Nut	M42x1.5
16	1	90621-63633	Split pin	D6.3x63
17	1	591952-10604	Fitting	R1/8", 6 mm
17	1	591953-21612	Binding screw	
18	1	579-616-0000	Breather pipe	D6/4, L=1500
18	1	591937-04027	Support ring	D4
19	1	540-201-9752	Tie rod assy	1230 mm, complete
20	1	560-530-0511	Ball Joint Assembly	RH, D50, M38x1.5
20	1	560-530-0521	Ball Joint Assembly	LH, D50, M38x1.5
21	2	590546-30463	Nut	M30x1.5
22	2	90621-63633	Split pin	D6.3x63
23	4	90303-12603	Hex Screw	M12x60
24	4	90502-12193	Nut	M12



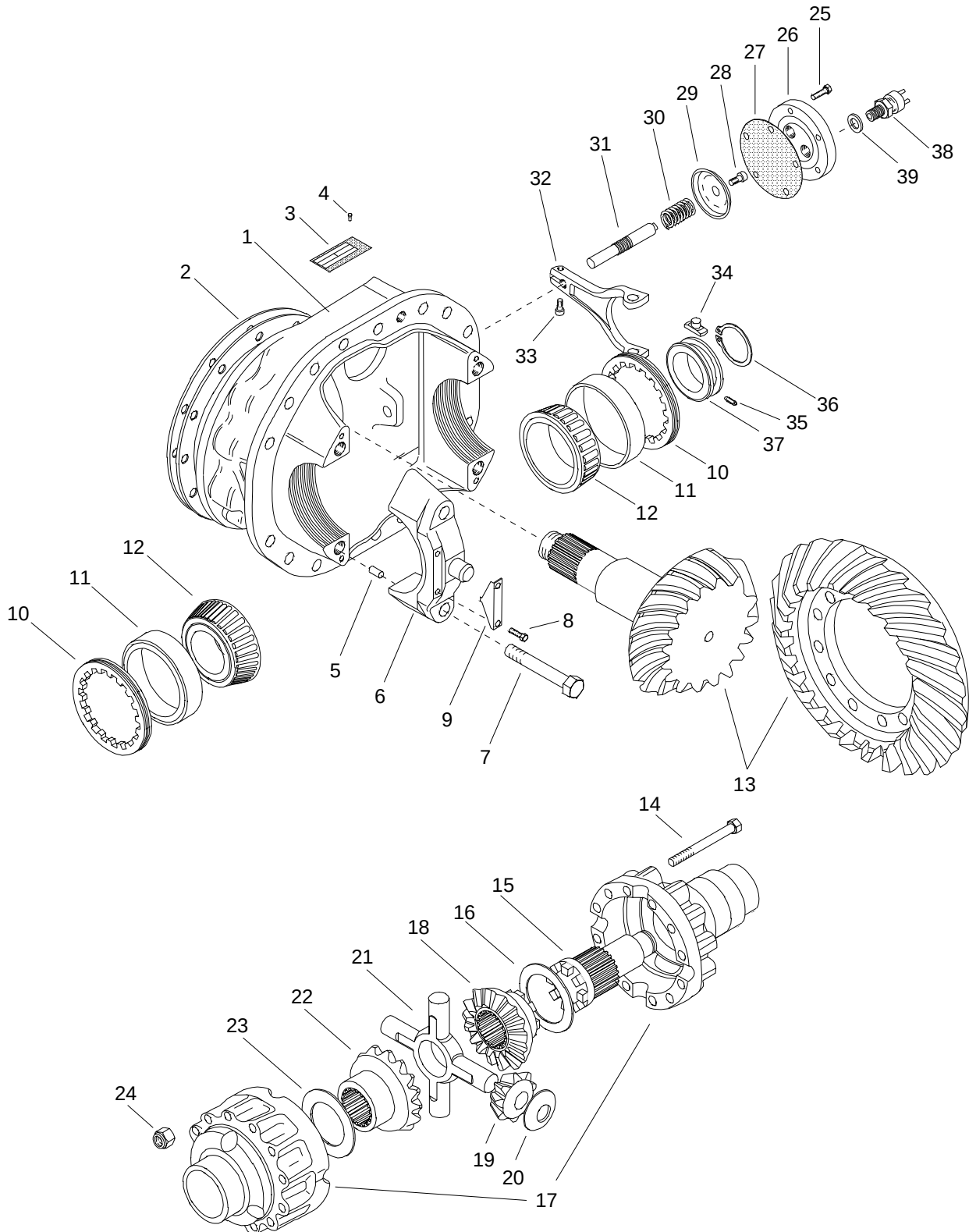
FSDPNAG2.DS4

Item	Qty.	Order no.	Description	Note
1	2	591122-15001	Shaft seal	Ø150/180
2	2	540-415-1300	Spacer ring	D150/133.35x22
2	2	91101-33026	O-ring	133x2.62
3	2	91744-01101	T. Roller bearing	
4	20	140-911-2510	Wheel bolt	L=93 mm
5	2	541-411-1412	Wheel hub	
6	20	540-916-1610	Wheel nut	M22x1.5
7	8	90303-10303	Hex Screw	M10x30
8	2	543-416-0210	Spacer ring	L=44 mm
9	NLA	590731-09510	Shim	s= 0.1 mm
9	NLA	590731-09515	Shim	s= 0.15 mm
9	ar	590731-09520	Shim	s= 0.2 mm
9	ar	590731-09530	Shim	s= 0.3 mm
9	ar	590731-09550	Shim	s= 0.5 mm
10	2	91744-01201	T. Roller bearing	
11	2	91720-22001	Retainer ring	D220x3
12	2	535-271-0611	Ring gear hub	
13	2	535-261-2110	Ring gear	
14	2	143-418-0510	Lock Washer	S=6 mm
15	2	599-290-8004	Lock Nut	M90x2
16	2	590319-08186	Allen Screw	M8x18
17	2	590319-08126	Allen Screw	M8x12
18	2	591711-05500	Retainer ring	D55x2
19	2	535-211-1310	Sun gear	N55x2x26
20	2	591711-05500	Retainer ring	D55x2
21	10	590169-01670	Special screw	M16x1.5x70
22	2	535-231-1310	Planet carrier	
23	20	590-353-1100	Spacer plate	D33.5/55.5x1.47
24	480	91385-50240	Needle roller	D5x23.8
25	10	590-354-3100	Spacer ring	D33.5/42x7
26	10	535-241-1310	Planet gear	
27	10	535-251-1410	Planet gear shaft	
28	2	591109-66052	O-ring	D266x5.33
29	2	541-471-0410	Planetary gear housing	
30	2	91201-22150	Seal ring	D22/27x1.5 Cu
31	2	90873-22109	Oil plug	M22x1.5, Allen head
32	2	91201-22150	Seal ring	D22/27x1.5 Cu
33	2	90871-22193	Plug screw	M22x1.5, hex head
34	2	541-404-0171	Planetary gear	



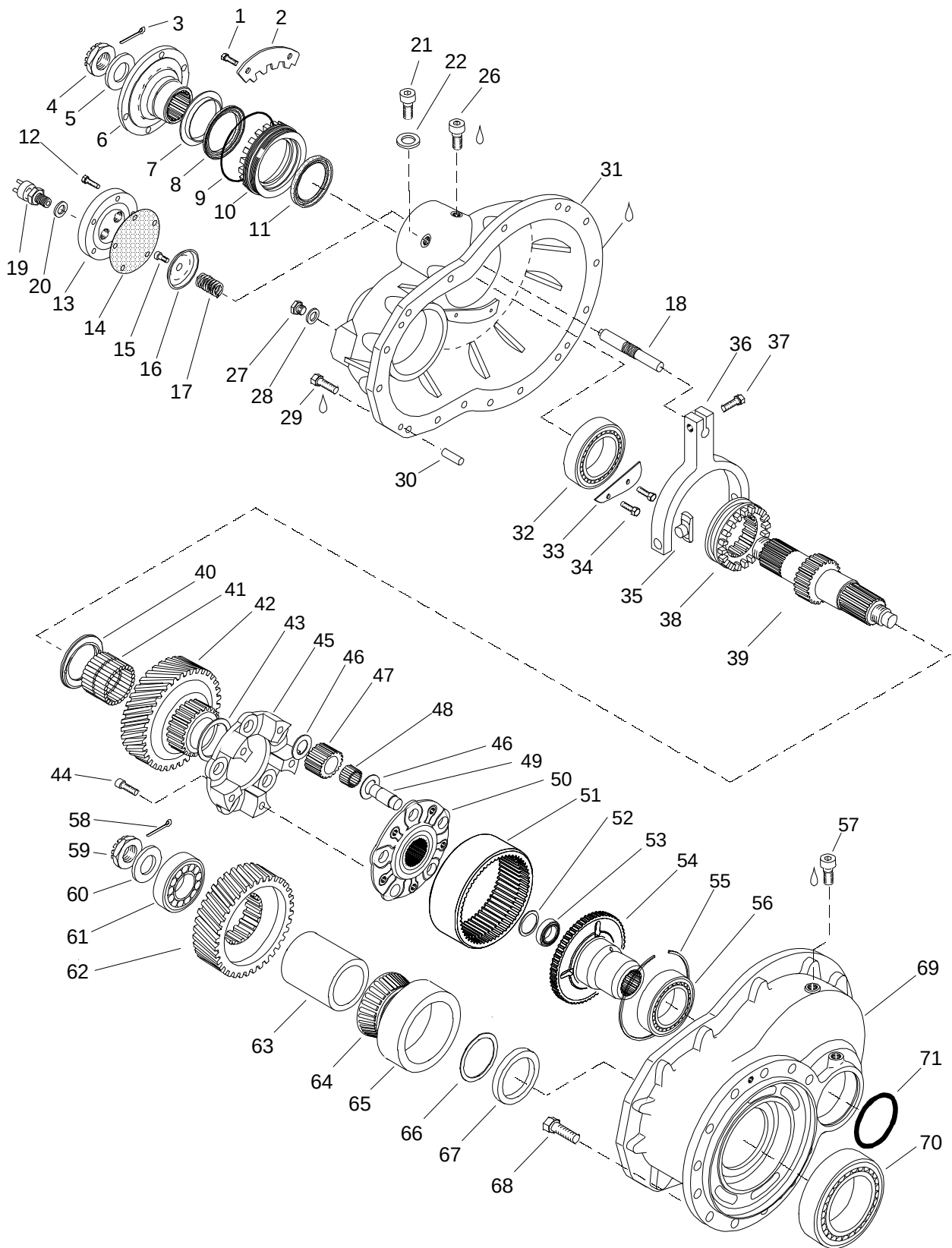
FSFPOAG2.DS4

Item	Qty.	Order no.	Description	Note
1	12	90311-16508	Allen Screw	M16x50, w/o steering arm
2	4	91402-10003	Grease nipple	M10x1, Straight
2	4	91421-06060	Shield hat	
3	4	590602-18400	Spring cotter	D18x40, w/o steering arm
4	2	540-121-2010	King pin	
5	2	590-722-1200	Protective cup	D79.5/93x10.5
6	2	590602-03100	Spring cotter	D3x10 mm
7	2	590-561-0110	Gasket	Foam-seal, Oil before installation
8	ar	590731-05621	Shim	0.2 mm
8	ar	590731-05631	Shim	0.3 mm
8	ar	590731-05651	Shim	0.5 mm
8	ar	599-413-8100	Spacer plate	1.0 mm
9	4	591222-05501	Shaft seal	D55/63x5.0
10	4	590-314-8110	King pin bushing	D60/55x50
11	2	595-518-0110	Plug	D50x6
12	2	591101-04720	O-ring	D47x2
13	2	541-141-1303	Steering knuckle	FSDP, FSFP & SSDP
13	2	541-141-1600	Steering knuckle	With CTI-system
14	2	590804-00060	Plug	Not serviced separately
15	2	540-121-1800	King pin	
16	2	590-722-1210	Protective cup	D65/93x11
17	2	90111-29054	Rivet	D2.9x5
18	2	590-561-0200	Gasket	Foam-seal, Oil before installation
19	2	540-136-0301	Bearing housing	
20	2	599-413-8010	Thrust washer	D55x2.5
21	4	590602-04140	Spring cotter	D4x14
22	1	540-241-6200	Tie rod arm	RH, FSFP
22	1	540-241-6210	Tie rod arm	LH, FSFP
22	1	540-241-6300	Tie rod arm	RH, FSDP
22	1	540-241-6310	Tie rod arm	LH, FSDP
22	1	540-241-7000	Tie rod arm	RH, For hydraulic steering
22	1	540-241-7010	Tie rod arm	LH, For hydraulic steering
23	4	590602-18600	Spring cotter	D18x60
24	12	90311-16608	Allen Screw	M16x60
25	2	579-616-0000	Breather pipe	D6x1, L=1500, up to S/N 151801 (4/2005)
25	2	579-616-0010	Breather pipe	D8/6, L=1500, since S/N 151802 (4/2005)
25	2	591937-04027	Support ring	D4, up to S/N 151801 (4/2005)
25	2	591937-06027	Support ring	D6, since S/N 151802 (4/2005)
26	2	591952-40610	Fitting	M10x1, D6, up to S/N 151801 (4/2005)
26	2	591952-40810	Fitting	M10x1, D8/6, since S/N 151802 (4/2005)
27	2	140-249-1210	Stop screw	Total L=52mm, FSDP, FSMP, SSDP
27	2	140-249-1400	Stop screw	Total L=80mm, FSFP
28	2	140-249-1400	Stop screw	Total L=80mm, FSFP
28	2	140-249-1500	Stop screw	Total L=65mm, FSDP, FSMP, SSDP
29	4	90502-16243	Nut	M16
30	1	541-502-0301	Axle Shaft	FSMP (RH) & FSFP (LH)
30	2	541-502-0311	Axle Shaft	FSDP & SSDP
30	1	541-502-0401	Axle Shaft	FSMP (LH) & FSFP (RH)
31	2	590575-06040	Lock Nut	M60x2, KM12
32	2	590735-06012	Lock Washer	MB12, D60x1.5
33	2	591733-00601	Spherical roller bearing	D60/110x28
34	2	591101-01045	O-ring	D101x4.5
35	2	090-500-6501	Shaft seal	D65/90x10
36	2	541-532-0010	Cover	For Foam-seal
37	8	90303-10303	Hex Screw	M10x30
38	2	590-561-0300	Gasket	Foam-seal, Oil before installation
39	2	590-711-9110	Protective cup	D85x9
40	2	590-711-9100	Seal housing	
41	2	590-561-0210	Gasket	Foam-seal, Oil before installation
42	2	092-957-8000	Retainer ring	D80x2.5
43	2	591122-06003	Shaft seal	D60/80x12
44	2	91122-06001	Shaft seal	D60/75x8
45	2	591738-10601	Needle bush	D60/72x35



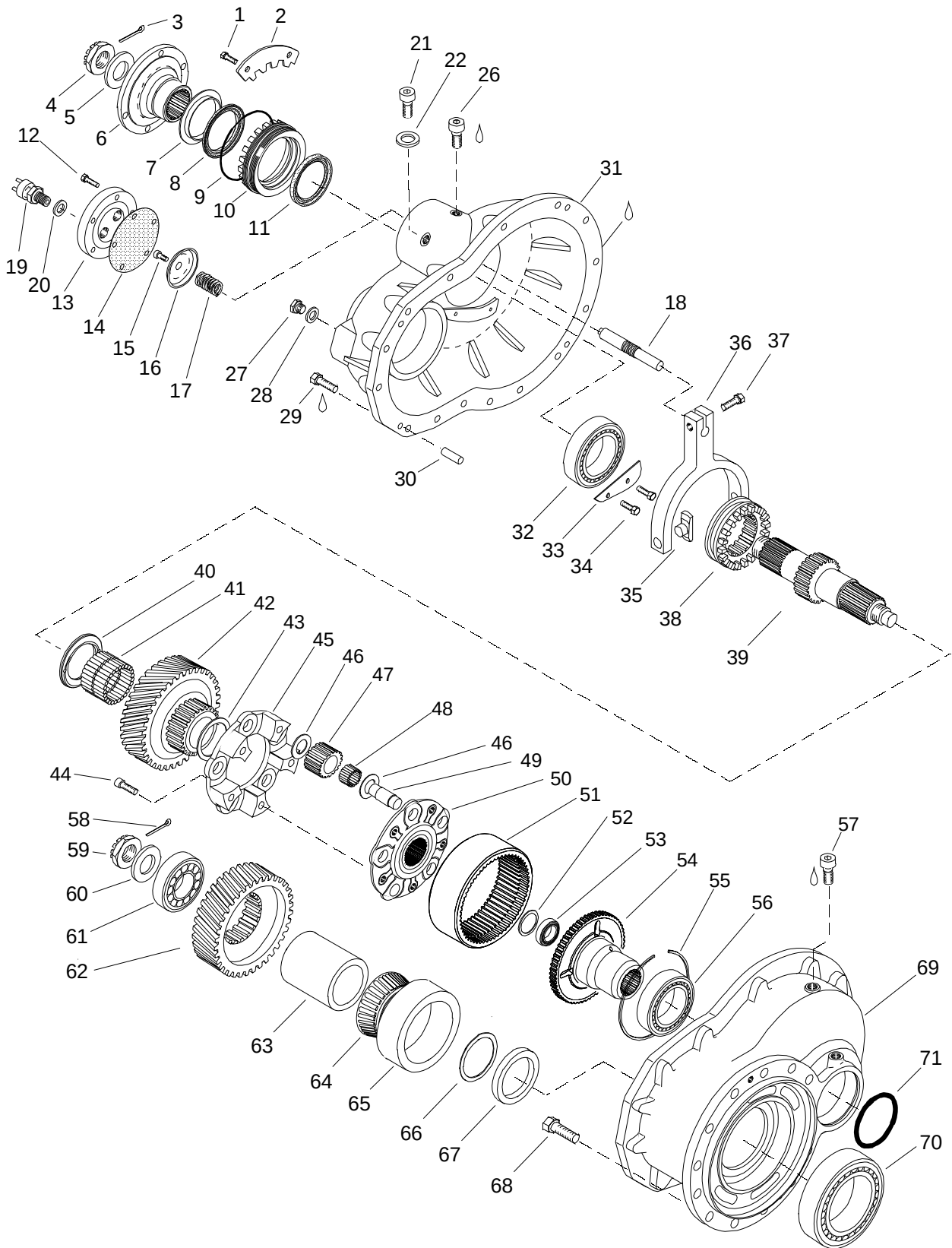
TDM2-VE1.DS4

Item	Qty.	Order no.	Description	Note
1	1	144-210-1911	Differential Carrier	Inc. Bearing Case Halfs
2	ar	144-239-2000	Shim	(1.0 mm)
2	ar	144-239-2001	Shim	(0.5 mm)
2	ar	144-239-2002	Shim	(0.2 mm)
2	ar	144-239-2003	Shim	(0.1 mm)
3	1	591600-20823	Name plate	
4	4	90111-29054	Rivet	D2.9x5
5	4	590604-08141	Pin	Ø8x14
6	2	143-214-2180	Bearing Case Half	Not Serviced Separately
7	4	90301-20377	Hex Screw	M20x130
8	4	90303-08103	Hex Screw	M8x10
9	2	143-227-0610	Lock Washer	
10	2	143-226-0012	Adjusting nut	D149
11	2	090-121-4700	Bearing outer race	
12	2	090-110-9000	Bearing inner race	
13	1	543-240-3419	Ring and pinion gear set	14/27, FR 7.01
13	1	543-240-3421	Ring and pinion gear set	17/26, Final Ratio 5.56
13	1	543-240-3429	Ring and pinion gear set	16/28, FR 6.36
13	1	543-240-3451	Ring and pinion gear set	12/29, FR 8.79
13	1	543-240-3481	Ring and pinion gear set	10/29, FR 10.55
13	1	543-240-6411	Ring and pinion gear set	25/32, FR 4.65 and lower
14	12	90321-16538	Hex Screw	M16x1.5
15	1	144-341-1700	Sliding Gear	
16	1	090-359-7000	Thrust washer	D97/127x3
17	1	143-310-3811	Diff. case assy	
18	1	543-351-4310	Side gear	D55/Z26
19	4	143-341-0700	Pinion gear	
20	4	143-345-0400	Thrust washer	D29/65x1.5
21	1	143-331-0603	Spider	
22	1	543-351-4210	Side gear	D55/Z26
23	1	090-357-5000	Thrust washer	D75/111x3
24	12	90556-16247	Nut	M16x1.5
25	5	90303-08203	Hex Screw	M8x20
26	1	572-161-1502	Membrane cover	For Signal Lamp Switch
27	1	172-351-1202	Membrane	
28	1	90319-08206	Screw	M8x20
29	1	172-361-0410	Push plate	D70x12
30	1	097-122-0100	Return spring	D29.5x43
31	1	172-212-1710	Sliding Shaft	D16/20x125
32	1	144-751-1210	Control fork	
33	1	90313-06208	Allen Screw	M6x20
34	2	133-348-0710	Sliding shoe	
35	1	90335-05108	Stopping screw	M5x10
36	1	91711-06500	Retainer ring	D65
37	1	144-348-0000	Sliding ring	
38	1	586-490-0381	Signal Lamp Switch	M18x1.5, connection M27x1.5
38	1	586-490-0481	Signal Lamp Switch	M18x1.5, connection DIN72585 bayonet
39	1	91201-18150	Seal ring	D18/22x1.5 Cu



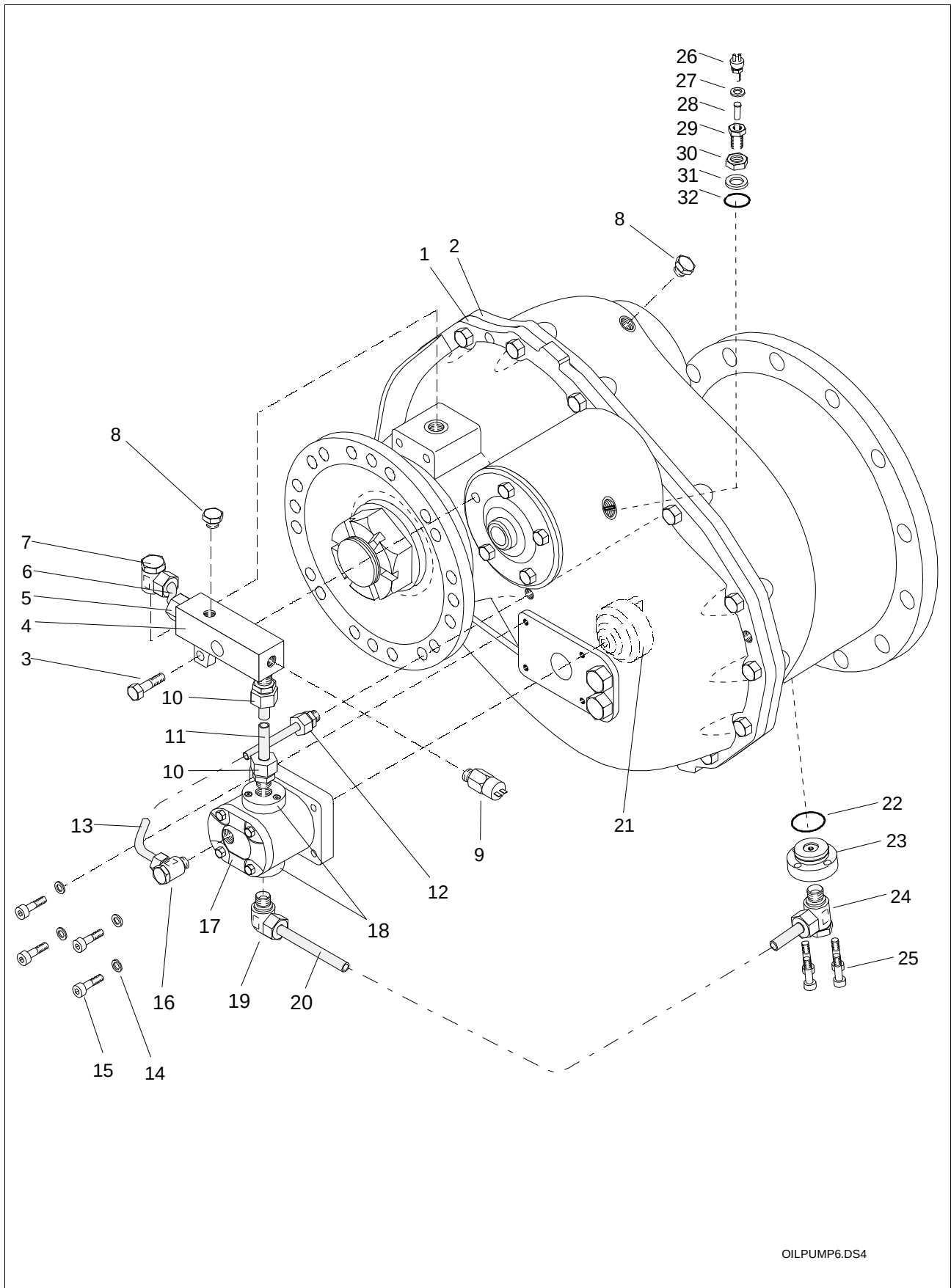
FP330DG2.DS4

Item	Qty.	Order no.	Description	Note
1	2	90303-08203	Hex Screw	M8x20
2	1	143-227-0710	Lock Washer	
3	1	90621-63633	Split pin	D6.3x63
4	1	90546-42653	Nut	M42x1.5
5	1	90705-43069	washer	D43/80x6
6	1	538-918-0511	Flange	ISO 8667 - T180
6	1	538-918-0900	Flange	HS 1700/1800
7	0	0		Not installed
8	1	591122-08507	Shaft seal	Cassette seal D85/120x9/20
9	1	91101-39530	O-ring	D139.5x3
10	1	543-226-1400	Adjusting nut	For cassette seal
11	0	0		Not installed
12	5	90303-08203	Hex Screw	M8x20
13	1	172-161-0701	Membrane cover	Only w/pressure lubrication
13	1	572-161-1502	Membrane cover	Standard, w/signal lamp switch thread
14	1	172-351-1202	Membrane	
15	1	90319-08206	Screw	M8x20
16	1	172-361-0410	Push plate	D70x12
17	1	097-122-0100	Return spring	D29.5x43
18	1	172-212-1710	Sliding Shaft	D16/20x125
19	1	586-490-0381	Signal Lamp Switch	M18x1.5, connection M27x1.5
19	1	586-490-0481	Signal Lamp Switch	M18x1.5, connection DIN72585 bayonet
20	1	91201-18150	Seal ring	D18/22x1.5 Cu
21	1	90871-18173	Plug screw	M18x1.5
22	1	91201-18150	Seal ring	D18/22x1.5 Cu
26	1	90873-10053	Plug screw	M10x1, Allen head
27	2	90871-22193	Plug screw	M22x1.5, hex head
28	2	91201-22150	Seal ring	D22/27x1.5 Cu
29	16	90303-12308	Hex Screw	M12x30
30	2	90604-10201	Cotter Pin	D10x20
31	1	544-221-0700	Diff. Carrier Cover	w/o pressure lubrication
32	1	91744-00704	T. Roller bearing	
33	1	546-167-1101	Oil Plate	
34	2	90303-08203	Hex Screw	M8x20
35	2	133-348-1701	Sliding shoe	
36	1	144-751-1300	Control fork	
37	1	90313-08208	Allen Screw	M8x20
38	1	544-274-0800	Sliding Ring	Ret. angle 0 deg., up to S/N 154399 (10/2005)
38	1	544-274-0910	Sliding Ring	Ret. angle 6 deg., since S/N 154400 (10/2005)
39	1	544-251-3600	Intermediate Shaft	
40	1	544-282-0100	Spacer ring	D75/99x6.5
41	1	591738-40751	Needle bush	D75/83x40
42	1	544-269-0910	Gear assembly	FR 4,65 and up, dog teeth ret. angle 0 deg.
42	1	544-269-1310	Gear assembly	FR 4,28, dog teeth ret. angle 0 deg.
42	1	544-269-1900	Gear assembly	FR 4,65 and up, dog teeth ret. angle 6 deg.
42	1	544-269-1910	Gear assembly	FR 4,28, dog teeth ret. angle 6 deg.
42	1	544-269-2000	Gear assembly	FR 4.11 (z34, ratio 1:0.882) ret. angle 6 deg.
43	1	544-282-0210	Spacer ring	D67.5/85x4
44	5	90311-16508	Allen Screw	M16x50
45	1	535-231-1400	Planet carrier	
46	10	590-354-3210	Spacer ring	D32/54x1.47
47	5	535-241-1400	Planet gear	
48	5	591738-40321	Needle bush	
49	5	535-251-1500	Planet gear shaft	
50	1	541-441-1300	Planet carrier	



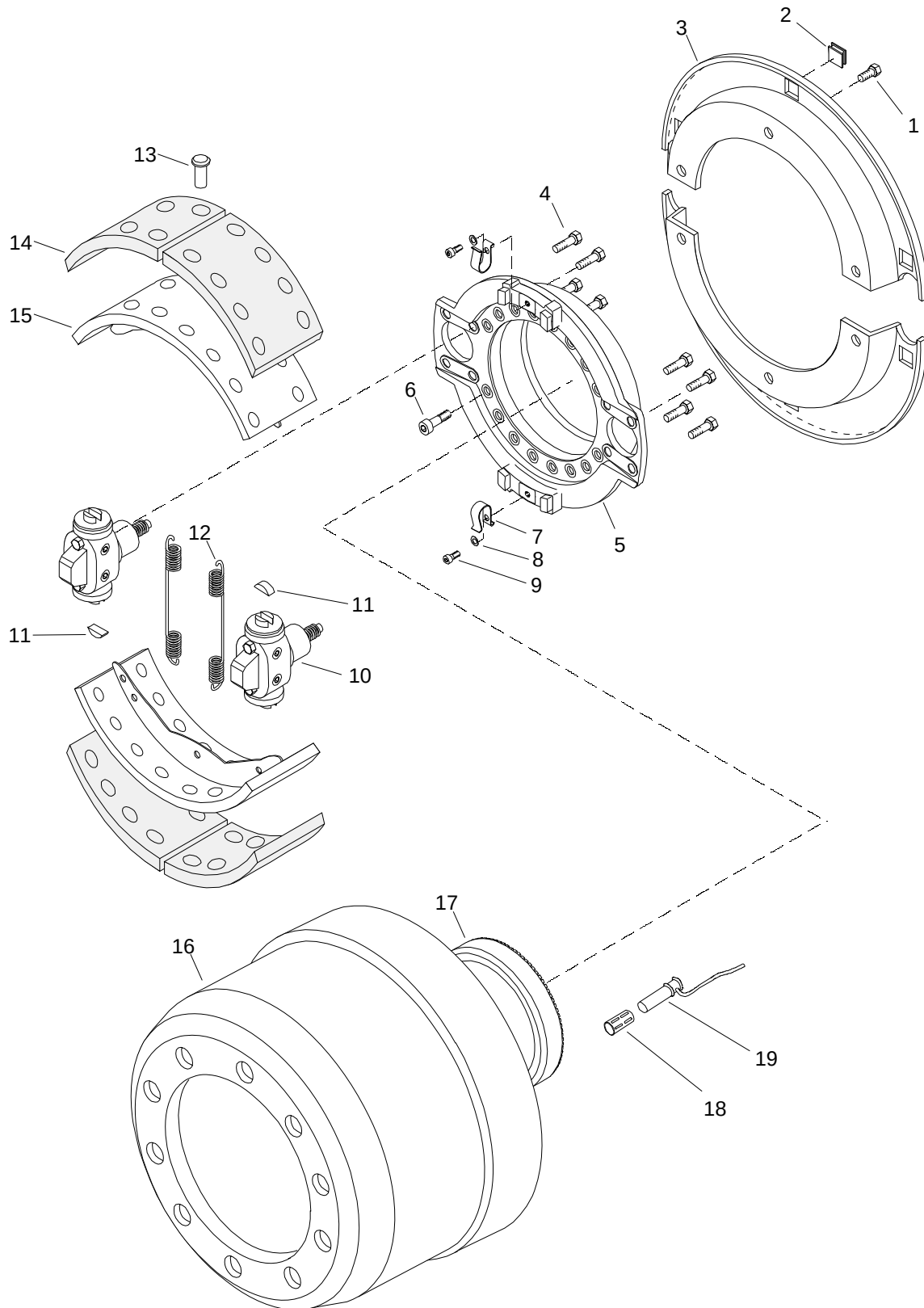
FP330DG2.DS4

Item	Qty.	Order no.	Description	Note
51	1	535-261-2200	Ring gear	
52	ar	90731-03510	Shim	(0.1 mm)
52	ar	90731-03520	Shim	(0.2 mm)
52	ar	90731-03550	Shim	(0.5 mm)
52	ar	90732-03510	Shim	(1.0 mm)
53	1	591744-00352	T. Roller bearing	
54	1	535-271-0700	Ring gear hub	
55	1	591720-25001	Retainer ring	D250x3
56	1	91744-00951	T. Roller bearing	
57	1	90873-10053	Plug screw	M10x1, Allen head
58	1	90621-63633	Split pin	6.3x63
59	1	90546-42653	Nut	M42x1.5
60	1	90705-43069	washer	D43/80x6
61	1	591736-30553	Roller bearing	
62	1	544-261-2200	Gear	FR 4.65 and over (z28, ratio 1:1)
62	1	544-261-3300	Gear	FR 4.28 (z34, ratio 1:0.919)
62	1	544-261-3410	Gear	FR 4.11 (z30, ratio 1:0.882)
63	1	543-261-1200	Spacer ring	D66.5/86.5x80
64	1	090-110-6740	Bearing inner race	
65	1	090-121-3700	Bearing outer race	
66	ar	099-516-7000	Shim	(0.1 mm)
66	ar	099-516-7001	Shim	(0.3 mm)
66	ar	099-516-7002	Shim	(0.5 mm)
66	ar	099-516-7003	Shim	(0.25 mm)
67	ar	599-557-1050	Spacer ring	L=18.40
67	ar	599-557-1052	Spacer ring	L=18.44
67	ar	599-557-1054	Spacer ring	L=18.48
68	12	90303-16407	Hex Screw	M16x40, 10.9
69	1	544-211-1600	Diff. Carrier Housing	w/o pressure lubrication
70	1	91744-00681	T. Roller bearing	
71	1	591106-99532	O-ring	D99.5x3



OILPUMP6.DS4

Item	Qty.	Order no.	Description	Note
1	1	544-221-0710	Diff. Carrier Cover	With oil pump
2	1	544-211-1610	Diff. Carrier Housing	With oil pump
3	1	90303-08303	Hex Screw	With oil pump
4	1	544-371-0000	By-pass manifold	
5	1	591951-61014	Fitting	M14x1.5, 10 mm
6	1	579-615-0100	Pipe	Dia 10 mm
7	1	591952-31008	Fitting	R1/4", 10 mm
8	2	90871-10143	Plug screw	M10x1, hex head 14 mm
9	1	586-340-0001	Pressure switch	
9	1	91201-14150	Seal ring	Cu 14x1.5
10	2	591951-51212	Fitting	R3/8", 12 mm
11	1	579-615-0810	Pipe	Dia 12 mm
12	1	91950-11010	Pipe joint	M10x1, 6 mm
13	1	579-615-0800	Pipe	Dia 6 mm
14	4	90705-06423	washer	
15	4	90313-06208	Allen Screw	M6x20
16	1	591952-10604	Fitting	R1/8", 6 mm
17	1	573-010-0001	Pump unit	
18	2	573-190-0001	Spacer flange	incl. screws
19	1	591952-11538	Fitting	R3/8", 15 mm
20	1	579-615-1000	Pipe	Dia 15 mm
21	1	544-361-0000	Shaft coupling	
22	1	591100-37020	O-ring	37x2
23	1	544-741-0010	Flange	
24	1	591952-31512	Fitting	R1/2", 15 mm
25	4	90313-06208	Allen Screw	M6x20
26	1	186-490-0281	Signal Lamp Switch	M12x1.5
27	1	91201-12150	Seal ring	D12/18x1.5
28	1	141-812-0100	Control pin	
29	1	141-812-0000	Binding screw	M12x1.5/M18x1.5
30	1	91842-18243	Lock Nut	M18x1.5
31	1	91838-18010	Pressure ring	Ms DR/R 18x23
32	1	91838-18100	O-ring	Ø16x2.5



FSFPJAGLDS4

Item	Qty.	Order no.	Description	Note
1	12	90313-08123	Allen Screw	M8x12
1	12	90705-08423	washer	D8.4/17x1.6
2	12	591426-02000	Plug	
3	4	546-131-7011	Dust Shield	
4	16	590316-14358	Screw	Not serviced separately
4	16	590707-14223	washer	Not serviced separately
5	2	546-111-3601	Brake Bracket	
6	32	90311-16608	Allen Screw	M16x60
7	4	546-817-0010	Bracket	Including pos. 8 & 9
8	4	590710-10547	washer	Not serviced separately
9	4	590317-10163	Hex Screw	Not serviced separately
10	2	546-011-0011	Expander	RH, Including pos. 4
10	2	546-011-0021	Expander	LH, Including pos. 4
11	4	546-358-0300	Sliding shoe	
12	ar	546-099-0001	Repair kit of springs	For two wheels (inc. 7-9,12)
12	4	592052-24002	Return spring	Not serviced separately
13	96	591501-00991	Rivet	Not serviced separately
14	ar	546-360-2111	Brake lining set	For two wheels, including rivets
14	ar	546-360-2121	Br. lining set(over size)	For two wheels, including rivets
15	4	546-309-9811	Brake shoe assy	Complete with linings
16	2	546-311-8111	Brake drum	Supersession for 146-311-7210 & 546-311-8200
17	2	589-291-0300	Ring gear	ABS
18	2	189-295-0000	Bush	ABS
19	2	189-250-0071	Sensor	ABS, Wabco, wire 1m
19	2	589-250-0081	Sensor	ABS, Knorr, protected wire 2m