## Section 5 Brakes Group 51 Wheel brakes

Brake fluid	
Quality	DOT 4
Front wheel brakes	
Brake disc (ventilated)	
outer diametermm	280
thickness, newmm	26.0
replace at minmm	23.0
min thickness at brake pad replacementmm	23.8
max. runout, loose discmm	0.035
fitted to hubmm	0.040
max. thickness variationmm	0.008
Wheel cylinder, inner diametermm	57.00
Brake pads (Textar 4005 FF)	
thickness, newmm	14.0
minmm	3.0
Rear wheel brakes	
Brake disc (solid)	
outer diametermm	295
thickness, newmm	9.6
replace at minmm	8.4
min thickness at brake pad replacementmm	8.9
max. runout, loose discmm	0.050
fitted to hubmm	0.080
max. thickness variationmm	0.008
Brake pads (Roulund DB 864 E)	
thickness, newmm	9.4
minmm	2.0
Wheel cylinder, inner diameter, alt. 1mm	38
alt. 2mm	40

Master cylinder		
Type, ATE tandem		
Primary cylinder, diametermm	23.81	
Secondary cylinder, diametermm	20.46	
Reduction valve		
Begins reducing atMPa	2.5	
Reduction	1:0.5	
Servo cylinder		
Type, ATEInches	1 * 10	
Ratio	4.5 : 1	
Group 55 Parking brake		
Parking brake		
Brake drum, diametermm	178	
radial runout, maxmm	0.15	
out-of-round, maxmm	0.15	
Full braking effect after adjusting atnotches	3 - 5	
when checking, maxnotches	11	
Tightening torques	Nm	ft.lb
Fasteners, front brake calipers	100	74
rear brake calipers	50	37
shield, steering knuckle	10	7
shield, wheel axle	25	18
brake caliper, slide pin	30	22
Wheel (bolts)	110	81
Attaching nuts, master cylinder	25	18
servo cylinder	25	18
Bleeder nipples, front	9	7
rear	5 14	3.7 10
Brake pipe unions	18	13
Brake hoses to caliper	10	10

## Group 59 Anti-lock brakes (ABS)

Hydraulic pump (ATE Mk 4), without TRACS Volvo P/N	68 06 796-6
with TRACSVolvo P/N	35 16 939-0
Control module (ATE Mk 4), without TRACS, -92Volvo P/N	35 15 775-9
93 Volvo P/N	68 49 538-1
94 Volvo P/N	68 49 823-7
with TRACS, -93Volvo P/N	91 28 081-8
94Volvo P/N	91 28 844-9
Inlet valves	
current consumptionA	1.75
Return valves	
current consumptionA	3.30
Sensors	
front (ATE), - 93Volvo P/N	68 06 786-7
93Volvo P/N	68 49 311-3
rear (ATE), - 93Volvo P/N	68 06 787-5
94Volvo P/N	91 28 422-4
resistance $\Omega$	1100 ± 10%
tightening torqueNm(ft.lb)	10 (7)
Tooth wheel	
frontVolvo P/N	68 14 502-8
rear (Koyo)Volvo P/N	13 87 941-6
Position sensor, brake pedal	
resistance, inactive	0.40 + 4.00/
100lota1100, maotivo	249 ± 10%