## Section 5 Brakes

## Group 51 Wheel brake

Brake fluid		T
Quality		DOT 4 +
		DO1 4 +
Front wheel brake, 16"		
Brake disc (ventilated)		
outer diameter	mm	302
thickness, new	mm	26.0
must be replaced at min	mm	23.0
min thickness at brake pad replacement	mm	23.8
max lateral runout, loose disc	mm	0.035
on hub	mm	0.040
max thickness variation	mm	0.008
Cylinder		
inner diameter	mm	57.00
Brake pads (Textar 4005 FF)		
thickness, new	mm	14.0
min	mm	3.0
Rear wheel brake	-	
Brake disc (solid)		
outer diameter	mm	295
thickness, new	mm	9.6
must be replaced at min	mm	8.4
min thickness at brake pad replacement	mm	8.9
max lateral runout, loose disc	mm	0.050
on hub	mm	0.080
max thickness variation	mm	0.008
Brake pads (Roulund DB 8034 E)		
thickness, new	mm	9.4
min	mm	2.0
Cylinder		
inner diameter	mm	38

Master cylinder, type ATE tandem	
Primary cylinder, diameter mm	23.81
Secondary cylinder, diameter mm	20.64
Servo cylinder	
type ATE inches	1 * 10
Gear ratio	4.5 : 1

## Group 55 Parking brake

Parking brake	
Brake drum, diameter mm	178
radial runout, maximum	0.15
maximum out of round	0.15
Full power must be maintained,	
readjustment notch	3 - 5
when checking, maximum notch	11
Tightening torques	Nm
Mounting screws, front brake caliper	100
rear brake caliper	50
protective panel, steering knuckle	10
protective panel, stub axle	25
brake caliper, sliding pin	30
Wheels (stud)	110
Mounting nuts, master cylinder	25
Mounting nuts, servo cylinder	25
Bleed nipples, front	9
Bleed nipples, rear	5
Brake pipe, screw caps	14
Brake hoses to OK	18

## Group 59 Anti-lock brakes (ABS)

Hydraulic pump (ATE Mk 4)	
without TRACS Volvo P/N	91 40 248
with TRACS Volvo P/N	91 40 249
Control module (ATE Mk 4)	
without TRACS Volvo P/N	91 40 773
with TRACS Volvo P/N	91 62 675
Intake valves	
power use A	1.75
Return valves	
power use A	3.30
Sensors	
front (ATE)	68 49 311
rear (ATE) Volvo P/N	91 62 612
resistance $\Omega$	1100 ± 10%
tightening torques Nm (ft. lb.)	10 (7)
Pulse wheel	
front Volvo P/N	68 14 502
rear (Koyo) Volvo P/N	13 87 941
Position sensor brake pedal	
resistance, resting position $\Omega$	249 ± 10%
resistance, fully depressed $\Omega$	