SCANIA

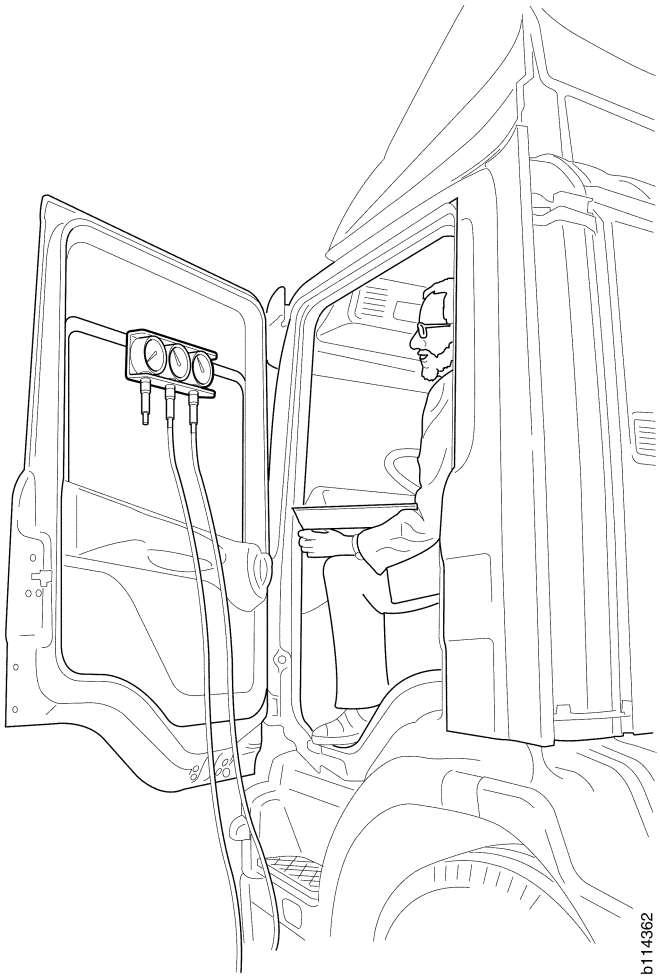
10:03-02

Issue 3 **en**

Testing brake system

Report

Applies to vehicles <u>without</u> EBS



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Testing brake system

Report

Date	Vehicle type	Chassis no.	Reg. No.	AO No.
Customer			Odometer reading	Issued by
Test carried out:	Before action ❑	After action ❑	Correct values = ()	

1. Operating pressure, tightness and check valve in overflow valve (39)

Operating pressure	Relief pressure	(9.1 - 9.5 bar)	(12.0 - 12.4 bar)*		.....
	Charging pressure	(7.9 - 8.9 bar)	(10.4 - 11.5 bar)*	-	.....
	Range	(0.6 - 1.2 bar)	(0.9 - 1.6 bar)*	=	.....
Pressure limiting valve 58c		(9.1 - 9.5 bar)*			.....
Check valve in overflow valve (39)					❑
Seal integrity	Pressure reading				.....
	Pressure after 1 minute			-	.....
	Pressure reduction	(max. 0.2 bar)		=	.....

* Applies to vehicles with extra load handling tanks

2. Air dryer, anti-freeze unit

Resistance: 5.0 - 7.5 ohms at temperatures < + 7 °C ❑

3. Four circuit protection valve

	Front circuit	Rear circuit	Parking circuit	Accessory circuit
Opening pressure (> 5.0 bar)			----------	----------
Closing pressure (> 4.0 bar)				
Bypass function	----------			----------

4. Parking brake, emergency brake

	Drive position	Emergency braking position	Parking position, valve without test position	Parking position, valve with test position	Test position
Test connection 7	(7.4 - 8.2)	(0.0)	(0.0)	(0.0)	(0.0)
Test connection 8	(0.0)	(6.6 - 7.6)	(0.0)	(6.6 - 7.6)	(0.0)

Pressure limiting valve 58b	(7.7 - 8.3 bar)	.....	
Check valve	Pressure decrease during 1 minute	.....	(Max. 1 bar)

5. Warning lamps, sensors: OK ❑ Action ❑

Actions:

6. Front circuit, rear circuit

(Permissible deviation: Front circuit - rear circuit maximum 0.3 bar.)

Front circuit					
Rear circuit	0.5	1.0	2.0	1.5	1.0

7. Maximum service pressure

Maximum deviation from relief pressure: 1 bar
Maximum deviation front circuit - rear circuit: 0.5 bar

Rear circuit pressure .....

Front circuit pressure .....

8. Service brake valve

Test connection 3 (rear circuit)	0.5	1.0	2.0	1.5	1.0
Test connection 9 (front circuit)					
Permissible pressure in test connection 9	0.1 - 0.4	0.6 - 0.9	1.6 - 1.9	1.4 - 1.7	0.9 - 1.2

9. Brake start pressure

		1st axle	2nd axle	3rd axle	4th axle
(With vibration damper max. 0.6 bar) (Without vibration damper max. 0.4 bar)	Left, bar				
(Disc brake max. 0.5 bar) (Max. deviation 0.2 bar/axle)	Right, bar				

10a. Rear circuit relay valve with opening pressure of 0.2 bar

Test connection 3 (service pressure)	0.5	1.0	2.0	1.5	1.0
Test connection 6 (regulated pressure)					
Permissible pressure in test connection 6	0.2 - 0.4	0.7 - 0.9	1.7 - 1.9	1.5 - 1.7	1.0 - 1.2

10b. Rear circuit relay valve with opening pressure of 0.42 bar

Vehicles with double front axles, US approved vehicles or (from 0299 inclusive) 4x2, 6x4 without load-sensing system and with 8" rear brake drums

Test connection 3 (service pressure)	0.5	1.0	2.0	1.5	1.0
Test connection 6 (regulated pressure)					
Permissible pressure in test connection 6	0.0 - 0.2	0.5 - 0.7	1.5 - 1.7	1.3 - 1.5	0.8 - 1.0

11. Front circuit, relay valve

Test connection 9 (service pressure)	0.5	1.0	2.0	1.5	1.0
Test connection 5 (regulated pressure)					
Permissible pressure in test connection 5	0.2 - 0.4	0.7 - 0.9	1.7 - 1.9	1.5 - 1.7	1.0 - 1.2

12. Pressure limiting valve, front circuit

	Test connection 5
20" brake cylinders	(5.8 - 6.2)
24" - 30" brake cylinders	(4.8 - 5.2)
With trailer	(8.0 - 9.0)

13. Trailer relay valve

Test connection 3 (of the rear circuit)	0.5	1.0	2.0	1.5	1.0
Test connection 8 (regulated pressure to trailer)					
Permissible pressure in test connection 8	0.5 - 1.0	1.2 - 1.5	2.2 - 2.5	1.8 - 2.1	1.3 - 1.6

14a. Load-sensing valve (air suspension)

Depress the brake pedal until the pressure gauge in test connection 3 indicates 6.0 bar

Test stage		Bellows pressure setting	Brake pressure in test connection 6
Max. reduction	4x2, 4x4:	1.0 bar	(1.6 - 1.9)
	Other:	0.5 bar	(1.6 - 1.9)
Brake pressure		Min. 1.5 bar	(See nomogram)
		Min. 0.8 bar	(See nomogram)
Brake protection valve check (79)		0	(5.8 - 6.1)

14b. Load-sensing valve (leaf-spring suspension)

	Maximum position	Half travel	Minimum position
Pressure reading (at 6 bar)	(5.8 - 6.0)	(2.7 - 2.9)	(1.5 - 1.7)

15. Dump feature, trailer relay valve

(< 1.5 bar in 2 seconds) ❑

16. Emergency brake valve, function

(Only applicable to US approved brake system)

Parking brake

	Drive position	Emergency braking position	Parking position
Test connection 7	(6.7 - 7.5)	(0.0)	(0.0)
Test connection 8	(0.0)	(6.5 - 7.5)	(0.0)

Emergency brake ❑

17. Supply dump valve

(Only for brake system approved for the US, Australia and New Zealand)

Drive position	(Pressurised)	❑
Emergency braking position	(Pressurised)	❑
Parking position	(Depressurised)	❑
Extended interlock valve	(Pressurised)	❑

18. Basic setting / stroke

	1st axle		2nd axle		3rd axle		4th axle	
	left	right	left	right	left	right	left	right
L1								
L	-	-	-	-	-	-	-	-
L2	=	=	=	=	=	=	=	=

19. Lining thickness, drum brake

		1st axle	2nd axle	3rd axle	4th axle
Min. 8 mm (STD)	LH, mm				
Min. 10 mm (TDC)	RH, mm				

(Max. difference 3 mm/axle)

Type of lining, marking		1st axle	2nd axle	3rd axle	4th axle
	LH				
	RH				

20. Lining thickness, disc thickness

Brake lining thickness

Min 2 mm

Min. 4 mm (with 37 - 40 mm thick discs)

	1st axle	2nd axle	3rd axle	4th axle
LH, mm	/	/	/	/
RH, mm	/	/	/	/

Brake disc thickness

	1st axle	2nd axle	3rd axle	4th axle
V				
H				

Lateral run-out

	1st axle	2nd axle	3rd axle	4th axle
LH				
RH				

Thickness tolerance, brake disc

Measuring points	1st axle	2nd axle	3rd axle	4th axle
1, LH/RH	/	/	/	/
2, LH/RH	/	/	/	/
3, LH/RH	/	/	/	/
4, LH/RH	/	/	/	/
5, LH/RH	/	/	/	/
6, LH/RH	/	/	/	/
7, LH/RH	/	/	/	/
8, LH/RH	/	/	/	/
9, LH/RH	/	/	/	/
10, LH/RH	/	/	/	/
Tolerance	/	/	/	/