



SCANIA

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Issue 3 en

Power steering gear and hydraulic pumps

Specifications

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Specifications, power steering gear

Left-hand drive trucks

Vehicle type	Power steering gear ratio	Flow dm ³ /min	Power steering gear
P/R 4x2	Single circuit: Variable 17-20:1, 18.6:1	16	ZF 8098, TAS85
	Dual circuit: 18.6:1		TAS86
T	Single circuit: 18.6:1/23.4:1	16	TAS85
	Dual circuit: 18.6:1		TAS86
P/R 6x2, 6x4	Single circuit: 18.6:1/23.4:1	16	TAS85
	Dual circuit: 18.6:1		TAS86
P/R 4x4, 6x6	Single circuit: 18.6:1/23.4:1	16	TAS85
P/R 6x2/4	Single circuit: 18.6:1	16	TAS85
	Dual circuit: 18.6:1		TAS86
P/R 8x2/4	Single circuit: 18.6:1/23.4:1	16	TAS85
	Dual circuit: 18.6:1		TAS86
P/R 8x2, 8x4, 6x2*4, 8x2*6, 8x4*4	Single circuit: 23.4:1	22/25	TAS85
	Dual circuit: 18.6:1		TAS87

Right-hand drive trucks

Vehicle type	Power steering gear ratio	Flow dm ³ /min	Power steering gear
P/R 4x2, 6x2, 6x4, 4x4, 6x6, 6x2/4	Single circuit: 18.6:1	16	TAS85
T		16	TAS85
P/R 8x2, 8x4, 6x2*4, 8x2*6	Single circuit: 23,4:1	22/25	TAS85

Buses

Vehicle type	Power steering gear ratio	Flow dm ³ /min	Power steering gear
K/L/N 4x2	Single circuit: Variable 17-20:1, variable 22.2-26.2:1	16	ZF8098
L/N 6x2/2		16	ZF8098
K/L 6x2		16	ZF8098
K 8x2		22/25	ZF8098
K/L 6x2*4		22/25	ZF8098
F 4x2	Single circuit: 18,6:1	16	TAS85

Specifications, hydraulic pumps

Hydraulic pump

Flow	D9-engine	DSC11-engine	DC11 and D12 engines	D14-engine	D16-engine
	Hydraulic pump				
16 dm ³ /min	LuK VT75A	LuK VT75	LuK VT75A, ZF FN31-7685	LuK VT75A	LuK VT75A
22/25 dm ³ /min			LuK VT75A		
Hydraulic pump attached to gearbox for dual-circuit steering	-	ZF 8604	ZF 8604	ZF 8604	ZF 8604

Hydraulic pump attached to engine, pressure and flow

Engine	Pump	Minimum flow (dm ³ /min) 500 rpm ^a	Flow (dm ³ /min) 1000-1900 rpm ^b	System pressure (bar)	Pressure limiting valve in pump
D9	LuK VT75A	14.1	14.4-19.2	150+10	No
			19.8-26.4		
DSC11	LuK VT75	12.4	14.4-19.2		
			19.8-26.4		
DC11 D12	LuK VT75A	13.5	14.4-19.2		
			19.8-26.4		
	ZF FN31- 7685	12.4	16.0-20.8		
D14	LuK VT75A	13.7	14.4-19.2		
			19.8-26.4		
D16	LuK VT75A	14.4	14.4-19.2		
			19.8-26.4		

a. Engine speed.

b. Engine speed.

Hydraulic pump attached to engine, gear ratio

Engine	Pump speed
D9	1.77 x engine speed
DSC11	1.6 x engine speed
DC11 and D12 (Luk VT75A)	1.709 x engine speed
DC11 and D12 (ZF FN31-7685)	1.709 x engine speed
D14	1.73 x engine speed
D16	1.73 x engine speed

Hydraulic pump attached to gearbox for dual-circuit steering, pressure

Gearbox	Pump	System pressure (bar)	Pressure limiting valve in pump
GR900 ^a	ZF 8604	150+10	Yes

a. Does not apply to gearboxes with torque converter and transfer box (4x4/6x6).

