

TRUCK, CARGO, MEDIUM, MC3, 8 TONNE, SCANIA

GS CARGO, RIGID BODY – GENERAL DESCRIPTION

DATA SUMMARY

This instruction is authorised for use by command of the Chief of Army. It provides direction, mandatory controls and procedures for the operation, maintenance and support of equipment. Personnel are to carry out any action required by this instruction in accordance with EMEI General A 001.



Figure 1 Truck, Cargo, Medium, MC3, 8 Tonne, Scania

General

1. This EMEI lists basic data for Truck, Cargo, Medium, MC3, 8 Tonne, Scania, as shown in Figure 1.
2. **Role.** The role of the above equipment is the operational and general transportation of stores and associated support equipment.
3. **Description.** The equipment is a Scania, Model P114CB4x4HZ, 340 hp, cab chassis, with cargo body and associated equipment.
4. **Variants.** The Truck, Cargo, Medium, MC3, 8 tonne, Scania, has the following variants and applicable EMEI:
 - a. [EMEI Vehicle G 640-1](#)Tipper Variant
 - b. [EMEI Vehicle G 640-2](#) Tanker Variant
 - c. [EMEI Vehicle G 640-3](#)Crane Variant

Detail

5. Dimensions:

- a. Height (with canopy unladen) 3350 mm
- b. Height (with canopy laden) 3300 mm
- c. Length 7773 mm
- d. Width (excluding mirrors)..... 2500 mm

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6. Mass:

a.	Unladen (front)	5220 kg
b.	Unladen (rear).....	4060 kg
c.	Total (unladen)	9280 kg
d.	Laden (front)	6000 kg
e.	Laden (rear)	9000 kg
f.	Total (laden)	15 000 kg

7. Payload:

a.	Payload	5720 kg
b.	GVM	15 000 kg
c.	Tow Bar Capacity	15 000 kg
d.	GCM (limited by tow bar)	30 000 kg

8. Performance:

a.	Fording Depth.....	1 m
b.	Turning Radius:	
	(1) Wall to Wall	7.58 m
	(2) Kerb to Kerb.....	8.56 m
c.	Angle of Approach:	
	(1) Unladen	29°
	(2) Laden.....	27°
d.	Angle of Departure:	
	(1) Unladen	24°
	(2) Laden.....	22°
e.	Maximum Gradient (@ 15 000 kg GVM):	
	(1) On Asphalt	51.3%
	(2) On Gravel.....	31.3%
f.	Ground Clearance:	
	(1) Front.....	284 mm
	(2) Rear	227 mm

9. Engine:

a.	Make.....	Scania
b.	Model	DC11.01
c.	Power @ 1800 rpm.....	250 kW
d.	Torque @ 1100 – 1450 rpm	1600 N.m
e.	Displacement	10.6 L
f.	Number of Cylinders	6
g.	Firing Order.....	1, 5, 3, 6, 2, 4
h.	Compression Ratio	17:1
i.	Idle Speed.....	600 rpm

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- j. Governed Speed 1800 rpm
- k. Oil Grade.....ACEA:E3 15W-40
- l. Oil Capacity 28 to 35 L
- m. Emission Rating Euro 2

10. Front Axle:

- a. Make.....Scania
- b. ModelAMD900
- c. Ratio 3.9:1
- d. Oil Grade..... Scania STO 1:0 85W-140
- e. Oil Capacity 13.5 L

11. Rear Axle:

- a. Make.....Scania
- b. Model RP832
- c. Ratio 3.9:1
- d. Oil Grade..... Scania STO 1:0 85W-140
- e. Oil Capacity 14 L

12. Transmission:

- a. Make.....Scania
- b. ModelGRS 890
- c. Speeds Forward..... 12
- d. Speeds Reverse..... 2
- e. Ratiosrefer Table 1
- f. Oil Grade..... Scania STO 1:0 85W-140
- g. Oil Capacity 15.4 L

Table 1 Gear Ratios

Gear	Split	Low	High
Reverse	L	14.74	N/A
	H	11.95	N/A
1/4	L	1.27	3.01
	H	9.14	2.44
2/5	L	7.17	1.91
	H	5.81	1.55
3/6	L	4.62	1.23
	H	3.75	1.00

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13. Transfer Case:

- a. Make..... Scania
- b. ModelGTD 800
- c. Speeds..... 2
- d. Ratios.....0.890/1.536:1
- e. Oil GradeScania STO 1:0 85W-140
- f. Oil Capacity.....6 L

14. Rims and Tyres:

- a. Rims 8.25 × 22.5 10-stud, steel disc
- b. Tyres (front and rear) 11R22.5, 16 ply
- c. Load Limit (single tyre)..... 6300 kg
- d. Load Limit (dual tyres)..... 11 600 kg
- e. Tyre Pressure (cold) Front..... 750 kPa
- f. Tyre Pressure (cold) Rear..... 680 kPa

15. Tray Body:

- a. Length.....5500 mm
- b. Width.....2500 mm

16. Trailer Facilities:

- a. Coupling..... Ringfeder 65G
- b. Tow Bar Capacity..... 15 000 kg
- c. Coupling Height875 mm
- d. Socket Type.....NATO 12 pin

17. Manufacturer's Details:

Scania Australia P/L
212 Northbourne Rd
CAMPBELLFIELD VIC 3061

18. Associated Information:

- a. SIGC.....2320-0195
- b. NIIN 66-148-2889
- c. SCES 12270

END

Distribution List: **VEH G 37.1 – Code 1** (Maint Level)
(Sponsor: LV SPO, Mdm/Hvy B Veh)

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