

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

GS CARGO, RIGID BODY – CRANE VARIANT

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 – Crane Variant

General

1. This EMEI lists basic data for Truck, Cargo, Medium, MC3, 8 Tonne, Scania, Crane variant 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. The vehicle is fitted with a cargo body and Ferrari 550 A1 hydraulic knuckle boom crane.

Detail

4. Dimensions:

- a. Height (unladen)..... 2950 mm
- b. Height (Laden) 2520 mm
- c. Length 6695 mm
- d. Width (excluding mirrors)..... 2500 mm

5. Mass:

- a. Unladen (front)..... 5301 kg

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- b. Unladen (rear)..... 3944 kg
- c. Total (unladen) 9245 kg
- d. Laden (front)..... 6000 kg
- e. Laden (rear) 9000 kg
- f. Total (laden) 15 000 kg

6. Payload:

- a. Payload 5755 kg
- b. GVM..... 15 000 kg
- c. Tow Bar Capacity..... 15 000 kg
- d. GCM (limited by tow bar)..... 30 000 kg

7. 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

8. 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
- j. Governed Speed 1800 rpm
- k. Oil Grade..... ACEA:E3 15W-40

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- l.** Oil Capacity 28 to 35 L
- m.** Emission Rating Euro 2

9. Front Axle:

- a.** Make.....Scania
- b.** Model AMD900
- c.** Ratio 3.9:1
- d.** Oil Grade..... Scania STO 1:0 85W-140
- e.** Oil Capacity 13.5 L

10. 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

11. Transmission:

- a.** Make.....Scania
- b.** ModeGRS 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

12. Transfer Case:

- a.** Make.....Scania
- b.** Model GTD 800
- c.** Speeds 2
- d.** Ratios 0.890/1.536:1

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- e. Oil Grade Scania STO 1:0 85W-140
- f. Oil Capacity 6 L

13. 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

14. Tray Body:

- a. Length 4700 mm
- b. Width 2500 mm

15. Crane:

- a. Make Ferrari
- b. Model 550 A1
- c. Type knuckle boom
- d. Lift Capacity:
 - (1) At 2.25 metres 2035 kg
 - (2) At 3.65 metres 1285 kg
 - (3) At 4.15 metres 1130 kg
 - (4) At 5.00 metres 945 kg
- e. Stabiliser Leg Width 2970 mm
- f. PTO Scania EG600

16. Trailer Facilities:

- a. Coupling Ringfeder 65G
- b. Tow Bar capacity 15 000 kg
- c. Coupling Height 875 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 2320-0128
- b. NIIN 66-148-2890
- c. SCES 12270
- d. [EMEI Vehicle G 640](#) General Description, Data Summary
- e. [EMEI Vehicle G 640-1](#) Tipper Variant, Data Summary
- f. [EMEI Vehicle G 640-2](#) Tanker Variant, Data Summary

END

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

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