

**TRUCK, CARGO, MEDIUM, MC3, 8 TONNE, SCANIA**  
**GS CARGO, RIGID BODY – WATER TANKER 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 – Water Tanker Variant**

**General**

1. This EMEI lists basic data for Truck, Cargo, Medium, MC3, 8 Tonne, Scania, Water Tanker variant as shown in Figure 1.
2. **Role.** The role of the above equipment is the operational and general transportation of potable water and use in fire fighting when necessary.
3. **Description.** The equipment is a Scania Model P114CB4x4HZ, 340 hp, cab chassis with water tanker body and associated equipment.

**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
- b. Unladen (rear) ..... 3944 kg
- c. Total (unladen) ..... 9245 kg
- d. Laden (front) ..... 6000 kg

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

**9. Front Axle:**

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- 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. Model .....GRS 890
- c. Speeds Forward..... 12
- d. Speeds Reverse..... 2
- e. Ratios .....refer Table 1
- f. Oil Grade..... Scania STO 1:0 85W-140  
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
- e. Oil Grade..... Scania STO 1:0 85W-140
- f. Oil Capacity ..... 6 L

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**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. Tank Body:**

- a. Length..... 3000 mm
- b. Width..... 2200 mm
- c. Height..... 1200 mm
- d. Capacity..... 5000 L
- e. Hydraulic Motor ..... Vickers 26M
- f. Pump..... GAAM MK 300
- g. Pump Capacity ..... 1000 L/min

**15. Manufacturer's Details:**

Scania Australia P/L  
212 Northbourne Rd  
CAMPBELLFIELD VIC 3061

**16. Associated Information:**

- a. SIGC..... 2320-0196
- b. NIIN ..... 66-148-2891
- 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 640-3](#)..... Crane Variant, Data Summary

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**END**

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