

**SEMI-TRAILER, TANK, WATER, HEAVY, MC4 – FRUEHAUF 37 000 LITRE
NSN 2330-66-130-0254**

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.

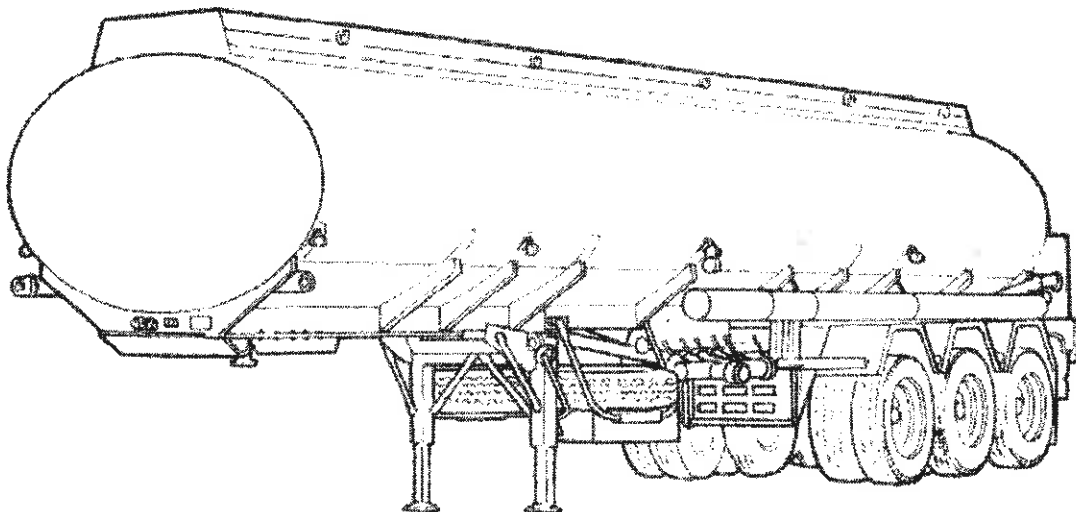


Figure 1 Semi-Trailer, Tank, Water, Heavy, MC4-Fruehauf 37 000 Litre

General

1. This EMEI lists the basic data for Semi-Trailer, Tank, Water, Heavy, MC4-Fruehauf 37 000 Litre, as shown in Figure 1.
2. **Role.** The role of the Semi-Trailer, Tank, Water, Heavy, MC4-Fruehauf 37 000 Litre is to facilitate the carriage of potable and non-potable water over all types of roads and short distances off-road.
3. **Description.** The trailer is based on the standard Fruehauf TAG 37 000 litre commercial tanker. The trailer is fitted with a pin coupling at the rear to enable it to be used in conjunction with other trailers in a road train configuration.

Detail

4. **Dimensions:**

a.	Overall Height.....	3430 mm
b.	Overall Length	12 100 mm
c.	Overall Width.....	2500 mm
d.	Coaming to King Pin.....	875 mm
e.	King Pin to Centre Axle.....	8500 mm
f.	Apron Plate Height (Unladen).....	1320 mm

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- g. Coaming Height:**
 - (1) Rear (Unladen)..... 1330 mm
 - (2) Front (Unladen)..... 1540 mm
- h. Shipping Cubage** 104 m³
- i. Wheelbase** 2490 mm
- j. Track**..... 1890 mm
- k. Ground Clearance**..... 300 mm
 - (1) Limiting Feature..... support legs
- l. Tow Coupling Height (to Centre of Pin)**..... 890 mm

5. Mass:

- a. Unladen:**
 - (1) Total Tare..... 7668 kg
- b. Design Limit Loading:**
 - (1) King Pin (Unladen) 1390 kg
 - (2) Maximum Payload 25 000 kg
 - (3) Gross Weight..... 32 668 kg

6. Water Tank:

- a. Tank capacity:**
 - (1) First Compartment (Not Normally Used) 8140 L
 - (2) Second Compartment 8230 L
 - (3) Third Compartment 8230 L
 - (4) Fourth Compartment 8230 L
 - (5) Fifth Compartment (Not Normally Used) 4170 L
 - (6) Total Capacity 37 000 L
 - (7) Recommended Capacity 24 690 L

7. Rims and Tyres:

- a. Wheels**..... 8.25 DC by 22.5 with 4.25 inch spacer
- b. Tyre Size** 11R by 22.5 by 16 ply
- c. Tyre Pressure**..... 586 kPa

8. Bridge Classification 34/52

9. Power Unit:

- a. Manufacturer/Type**..... Lombardini 3LD510
- b. Number of Cylinders** one
- c. Power**..... 8.1 kW @ 3000 rpm
- d. Torque** 29.42 Nm @ 2000 rpm
- e. Capacity**..... 0.51 L
- f. Compression Ratio** 17.5: 1

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10. Axles:

- a. Manufacture Fruehauf
- b. Type square tubular beam

11. Electrical System:

- a. Type 12 V flameproof, negative earth

12. Brakes:

- a. Foot Brake compressed air mechanical
- b. Parking and Emergency spring brake all axles

13. Performance:

- a. Fording Depth 800 mm

14. Trailer Facilities:

- a. Socket Type NATO 12-pin
- b. King Pin 90 mm
- c. Tow Coupling 50 mm pin
- d. Brake Coupling Glad Hand connections

15. Fuels and Lubricants: Table 1

Table 1 Lubricants

Item	Description	Lubricant	Capacity
1	Wheel bearings	OEP-220	0.65 L
2	Chassis	XG-291	as required
3	Support legs	XG-291	as required
4	Power unit (oil pan)	OMD-115	1.75 L
5	Fuel tank	diesel	5.3 L
6	Air cleaner bowl	OMD-115	

16. Manufacturer's Details:

- a. Manufacturer:
Fruehauf Limited
Houghton Road
Grantham
Lincolnshire NG31 6JE

17. Point of Contact:

NFM, Mdm/Hvy B Veh
LV SPO, DMO
Victoria Barracks
St Kilda Rd
SOUTHBANK VIC 3006

18. Associated Information:

- a. NSN 2330-66-130-0254
- b. RPS 02200
- c. SCES 12079

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d. Other EMEI:

- (1) Vehicle H 712 Technical Description
- (2) Vehicle H 713 Light Grade Repair
- (3) Vehicle H 714-1 Medium Grade Repair
- (4) Vehicle H 719 Servicing Instruction

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END

Distribution List: **VEH H 09.0 – Code 1** (Maint Level)
(Sponsor: LV SPO, Mdm/Hvy B Vehicles)
(Authority: TRAMM)