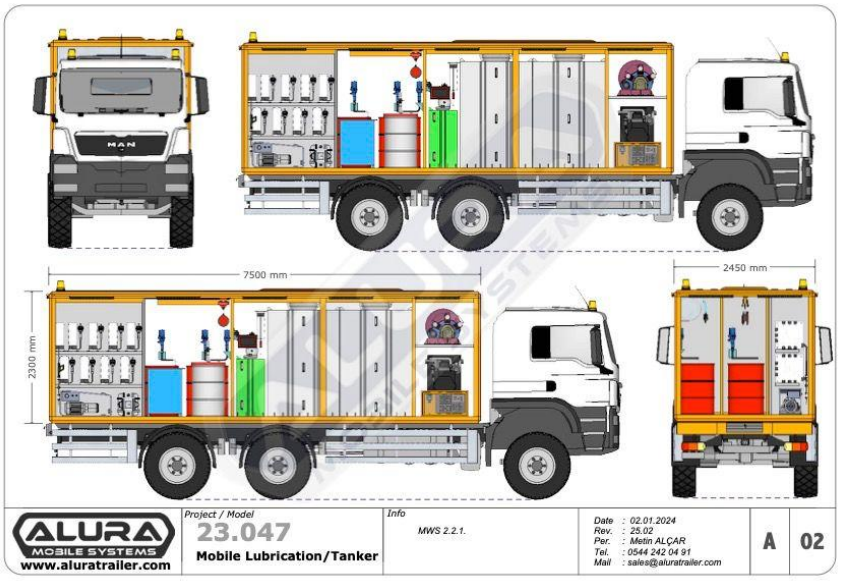
USER MANUAL

MOBILE LUBRICATION & TANKER TRUCK

Manufacturer: ALURA TRAILER
Website: www.aluratrailer.com
Email: sales@aluratrailer.com
Phone: +90 544 242 04 91



EQUIPMENT LIST

Bodywork (ALURA)

- • MWS insulated body from twisted C type channel steel
- • Base traverses 80mm with 18mm elastomeric rubber insulation
- • 18mm plywood floor
- • Sliding windows and fixed rear glass door
- • Quick access covers for generator, compressor, and rollers
- • Integrated crane connection channel
- • Electrical cables hidden inside chassis
- • Environmental and interior lighting 220V
- • Quick-access rear bumper drawers

Generator Diesel (Cummins X2.5G2)

- • Power: 28 kVa standby / 25 kVa prime
- • Voltage: 400/230 V - 3 Phase
- • RPM: 1500, Frequency: 50 Hz
- • Water cooled, Stamford alternator

Air Compressor (Atlas Copco AC75)

- • 7.5 hp piston compressor
- • Air intake: 836 L/min, Pressure: 15 bar
- • Working Power: 380 V

Oil System

- • 5 pneumatic oil pumps (Orjin) - 18 L/min flow
- • 5 hose reels (RAASM) - 15m, 150 bar
- • 5 digital oil dispensing guns (RAASM)

Grease System

- • 1 grease pump (RAASM) - 1500 g/min
- • 1 grease hose reel (RAASM) - 25m, 400 bar

Waste Oil System

- • 1 diaphragm pump (RAASM) - 70 L/min
- • 1 waste oil hose reel (RAASM) - 15m, 20 bar
- • 1 transfer unit (ÖZSAY) - 50L capacity
- • 1 waste oil tank - 500L metal prism with indicators

Water System

- • Karcher water pump - 1000 W, 4500 L/hr

- • Water hose reel - 20m, 20 bar
- • 500L stainless steel water tank

Diesel System

- • PIUSI diesel pump - 50 L/min, 230V
- • Diesel hose reel - 15m, 20 bar
- • 2 x 5000L ST37 carbon steel fuel tanks

Other Components

- • Air tank - 300L, 16 bar
- • Cable roller (MAVEL) - 20m, auto-rewind
- • Air hose reel (MAVEL) - 20m, 15 bar
- • Interior lighting (EAT) - 6 pcs LED
- • Outdoor lighting (CSR) - 6 pcs, 12/15V
- • Air regulator (OSAKA) - 2200 L/min
- • Air line connections (OSAKA) - Polyurethane
- • Control panel (ALURA)
- • Hand tools set (IZELTAS) - 43 pieces
- • Chain hoist (MAX EXTRA) - 1 Ton, 5m chain

1. Introduction

This mobile lubrication and tanker truck, manufactured by ALURA Trailer, is designed for field lubrication, maintenance, and refueling operations. The unit integrates oil dispensing systems, air compressors, water pumps, diesel fuel systems, and waste oil recovery components into a mobile service platform. It is optimized for quick deployment and ease of use in demanding environments such as mining sites, construction fields, or remote industrial locations.

2. Safety Instructions

- Only qualified personnel should operate the equipment.

- Always ensure all hoses and fittings are securely connected before use.

- Wear appropriate PPE (gloves, goggles, ear protection) during operation.

- Turn off power supply before performing any maintenance.

- Avoid exposure to pressurized fluids or steam.

3. Main Components Overview

• Bodywork with insulated walls, sliding windows, and rear access doors.

• Diesel Generator (Cummins 28kVA) for autonomous power supply.

• Atlas Copco air compressor with 300L air tank.

• 5 pneumatic oil pumps and hose reels for various oils.

• RAASM digital oil dispensing guns.

• Grease pump system and dedicated grease hose reel.

• Diaphragm pump for waste oil collection and related storage tank.

• Karcher water pump and stainless-steel water tank (500L) with reel.

• Cold pressure washer with high-pressure hose reel.

• PIUSI diesel pump and 2 x 5000L carbon steel fuel tanks.

• Chain hoist, electric cable roller, air hose reels, interior and exterior lighting.

4. Basic Operation Guidelines

1. Start the generator to power all systems.
2. Open relevant shutters to access tools and equipment.
3. Use the control panel to activate desired systems (air compressor, pumps, etc.).
4. Dispense oil or grease using the labeled hose reels and guns.
5. Use water system for cleaning or cooling.
6. Collect waste oil through the diaphragm pump and store in the dedicated tank.
7. Ensure all systems are off before transport.

5. Maintenance Instructions

- Inspect all hose reels and pumps weekly for leaks or wear.

- Clean filters in water and air systems monthly.

- Check generator oil level and refill as needed.

- Drain and clean tanks periodically.

- Tighten all fittings and check system pressure levels regularly.

6. Technical Specifications

• Total Length: 7500 mm
• Width: 2450 mm
• Height: 2300 mm

• Generator: 28 kVA Cummins Diesel

• Compressor: 7.5 hp, 836 L/min, 15 bar

• Fuel Tanks: 2 x 5000L, carbon steel

• Water Tank: 500L stainless steel

• Waste Oil Tank: 500L metal prism tank

7. Component-Specific User Guidelines

7.1 Air Compressor – Atlas Copco AC75

The AC75 is a belt-driven piston air compressor primarily designed for industrial use. It delivers an airflow rate of 836 L/min with a working pressure of 15 bar and is powered by a 7.5 hp motor. It is not suitable for outdoor use unless it carries the designated Lwa noise compliance label. Ensure regular inspection of air filters, secure hose connections, and clean drainage points to maintain optimal performance.

7.2 Generator – Cummins Diesel 28 kVA

The diesel generator is designed to operate with a fully charged battery, sufficient diesel fuel, proper cooling liquid, and motor oil. Before each use, check the oil level, coolant, and fuel tank. It features automatic or manual start systems, with protective components like exhaust silencers and vibration isolators. Use in well-ventilated areas and avoid direct exposure to rain for open-frame models. Periodic maintenance includes checking the battery, replacing filters, and inspecting electrical systems.

7.3 Oil Pumps – RAASM Pneumatic Pumps

RAASM pneumatic pumps are designed for the distribution of medium to high-viscosity oils. They are pneumatically operated and suitable for non-explosive environments only. Routine maintenance includes ensuring hose integrity, using compatible fluids, and avoiding pressure surges. Keep the work area clean, store hoses safely, and perform all maintenance with air supply disconnected.

7.4 Grease Pump – RAASM V650 Series

The RAASM V650 series grease pump is a pneumatic-operated unit designed for dispensing medium and high-viscosity greases. It is equipped with a double-acting air motor and offers high delivery efficiency with low air consumption. This model features an anti-rust treated internal structure, and the pump rod is connected to the drum cover to facilitate maintenance and replacement.

Ensure proper grounding of the system before use to prevent static discharge. Periodic maintenance includes lubricating moving parts, checking hose integrity, and inspecting seals for leaks. Do not operate the pump in environments with explosive gases or vapors. Incorrect or unauthorized use may cause damage or personal injury. For full details on setup, safety, and troubleshooting, please refer to the original RAASM V650 User Manual provided in this documentation.

8. High Pressure Washer Ssytem

The mobile unit includes a cold-water high-pressure washer equipped with a reinforced lance, heavy-duty hose, and turbo nozzle system designed for deep cleaning in industrial environments. This system operates without an internal water heater, relying on high-pressure jets to remove dirt, oil, and grease from machinery surfaces, vehicle components, and structural areas of the unit. The washer reel is mounted on a swivel base for ergonomic use and ease of retraction. Operators should always wear protective gear when using the washer, especially when cleaning near electrical compartments or moving mechanical parts. Regular maintenance includes checking nozzle alignment, inspecting the hose for cracks, and ensuring the pressure pump is primed before each use. For further technical details, refer to the washer's original manual included in this documentation.

9. General Safety Instructions

This mobile workshop is equipped with integrated safety systems and warnings to ensure safe and efficient field operation. All users must follow standard safety protocols during usage, especially while handling flammable liquids, operating high-pressure pumps, or performing maintenance tasks. Welding or grinding operations must be conducted with appropriate protective gear and in well-ventilated conditions to prevent fire or injury. It is crucial to turn off power sources and release pressure from the system before conducting any service. Each mobile unit includes safety signs and warning labels on the inner walls of the cabin, including fire extinguisher locations, PPE reminders, grounding points, and system pressure limits. Ensure all operators are trained and aware of the hazards specific to mobile lubrication systems.

10. Additional Technical Notes

This mobile unit is equipped with a fully integrated pneumatic and hydraulic fluid management system designed for maximum durability and ease of maintenance. All pumps, hose reels, and tanks are mounted securely within an insulated body that minimizes vibration and external noise. The oil distribution lines are internally routed and pressure-regulated to avoid accidental surges. Key system components, including the compressor and generator, are isolated in ventilated compartments to maintain optimal working temperature and prevent dust ingress. The unit also includes LED interior lighting for safe nighttime operation, and grounding points are pre-installed near all fuel transfer components. For wiring diagrams, control panel layout, and advanced calibration settings, please refer to the manufacturer's supplementary manuals provided with this documentation.