

SUBJECT: lubricating and greasing equipment 8 services, mounted on ASTRA HD9
4x4

VAN AND EQUIPMENT INSTALLED INSIDE:

Dimensions:

length mm 6600 approx.

width mm 2450 approx.

height mm 2300 approx.

platform in rectangular steel pipe and cold bent steel, electrically welded to a counterframe in steel sheet bolted to the main beams of the vehicle chassis

The floor of the platform is covered in chequered steel plate 3+2 mm thick

Sturdy columns are welded to the platform and support the roof.

Covering roof made of steel structure with roof and front wall in steel sheet and sides closed by sliding tarpaulins.

Inside the van the following equipment are installed

- air compressor ATLAS COPCO, piston type, double cylinder, double stage, moved air volume 700 l/1' at 10 bars, with pressure automatic breaker , pilote valve, and idle running , operated by hydraulic engine
- n.1 air tank, cylindrical 200 l capacity fitted with safety valve, air intake tap, graduated pressure gauge

Battery of reel winders, for eight services, as follows:

- n.2 winder for delivering hydraulic and engine oil with spring operated rewinding device, block system, and supporting frame for guide rollers.
Each winder is fitted with 15 m rubber hose 3/4 suitable for oil, and with suitable oil delivery gun with litre counter
- n.2 winders for delivering differential/transmission oil with spring operated rewinding device, block system, and supporting frame for guide rollers.
Each winder is fitted with 15 m rubber hose 1/2 suitable for oil, and with suitable oil delivery gun with litre counter
- n.1 winder for delivering grease with spring operated rewinding device, block system, and supporting frame for guide rollers.
The winder is fitted with 15 m rubber hose suitable for grease 1/4
A grease delivery gun is fitted on the end of the winder.
- n.1 winder in stainless steel for HP water with spring operated rewinding device, block system, and supporting frame for guide rollers.

The winder is fitted with 15 m rubber hose 3/8 suitable for HP water
A washing lance is fitted on the end of the winder.

- n.1 winder in stainless steel for anti-freeze with spring operated rewinding device, block system, and supporting frame for guide rollers.
The winder is fitted with 15 m rubber hose 1/2 with a suitable gun
- n.1 winder for air with spring operated rewinding device, block system and supporting frame for guide rollers.
The winder is fitted with 15 m rubber hose 1/2 suitable for air.
A quick joint is installed at the end of the winder, where the following delivery guns can be connected:
 - blowing gun
 - spraying gun for air-diesel or air-water washing
 - tyres inflating gun with pressure gauge

The delivery guns on the end of the hoses are placed into a suitable collecting tray.

n.2 seats for positioning standard 180 kg drums (1 grease+1 reserve) are placed on the platform; the necessary fittings to fix the drums are supplied. The grease drum is supplied complete with cover and follower plate.

For delivering oil and grease, we supply:

- n.2 rotary gear pump for hydraulic and engine oil, operated by hydraulic engine.
max. capacity 70l/1' with bypass valve and valve for flow regulation
- n.2 air operated pumps for transmission/ differential oil, suitable for the tank, ratio 5:1, with quick joints for air intake and oil delivery.
free flow max capacity 18 l/1'
- n.1 air operated pump for grease, suitable for 180 kg drums, ratio 1:50, complete with quick joints for air intake and grease delivery.
free flow max capacity 1500 gr/1'
- n.1 air operated pump for anti-freeze, in stainless steel, suitable for the tank, ratio 1:1, complete with quick joints for air intake and anti-freeze delivery.
free flow max capacity 30 l/1'
- Pneumatic and hydraulic systems of the various services with all hose connections between compressor, air tank, air operated pumps, are in rubber, suitable for the fluids transferred and their working pressures. Dehumidification filter and reducer downstream of the air compressor for the regulation of the pressure where necessary.

TANKS FOR OIL AND COOLING LIQUID

- n.1 tank for hydraulic oil made in steel plate, capacity 2000 l, with fixing brackets, complete with manhole, loading port, level indicator, prearranged for connection to oil pump, and unloading tap
- n.1 tank for engine oil made in steel plate, capacity 1.000 l, with fixing brackets, complete with manhole, loading port, level indicator, prearranged for connection to oil pump, and unloading tap
- n.2 tanks for transmission/differential oil made in steel plate, capacity 500 l, with fixing brackets, complete with loading port, level indicator, prearranged for connection to oil pump, and unloading tap
- n.1 tank for cooling liquid made in steel plate, capacity 500 l, with fixing brackets, complete with loading port, level indicator, prearranged for connection to oil pump, and unloading tap

EXHAUST OIL SERVICE

- n.1 tank for exhaust oil made in steel plate, capacity 500 l, with fixing brackets, complete with loading port, level indicator, prearranged for connection to oil pump, and unloading tap
- n.1 diaphragm pump capacity 40/50 l/1' for exhaust oil complete with 10 m of suction hose

HP WATER SERVICE

- HP water pump, piston type for cold water, driven hydraulically by a hydraulic, capacity 30l/1', pressure 150 bar, complete with pressure regulator
- water tank made in steel plate, capacity 2.000 l, complete with loading port, level indicator, connections for pump

HYDRAULIC EQUIPMENT

A hydraulic equipment is fitted for the functioning of compressor, HP water pump, 2 oil gear pumps for hydraulic and engine oil. The hydraulic equipment is composed of:

- hydraulic pump connected to the vehicle PTO
- hydraulic engines for the different services
- control distributors
- oil tank, heat exchanger
- piping, valves and accessories

The equipment is equipped with:

- n.1 rotating crane fixed to the platform for lifting drums, with central column in thick steel pipe, monorail along which a carriage with a chain block 500 kg capacity can slide.
- n.1 big size box for tools and accessories
- n.1 workbench with vice and drawers dim. 1000x700
- n.1 chest of drawers with different compartments containing n. 150 tools as follows:
- n.1 locker for filters 1000x400x1000
- n.2 flood lights for rear working area lighting near the hose reel, powered by the vehicles battery
- n.1 fire extinguisher, 9 kg
- n.2 jerricans made of steel plate, 20 l capacity, for liquids
- rear mud guards
- spare wheel holder for n. 1 tyre 14.00R20 placed rear cab with suitable winch