

TECHNICAL DESCRIPTION

SUBJECT: Lubrication and greasing unit including a fuel tank 5.000l capacity, with motor-driven air compressor KAESER M20 , installed on your MAN TGS 33.400 6x6, 4500 mm wheelbase, 2500 mm rear overhang (1st axle 8 t, rear axles 26 t, GVW 33 t)

Pictures of a similar equipment



LUBRICATION UNIT

Dimensions:

- length mm 7800 approx.
- width mm 2500 approx.

Supporting structure in tubular profiles and cold bent steel sheet electrically welded to a sub frame in channel steel, bolted to the main beams of the vehicle chassis.

The floor of the platform is lined with chequered steel plate, thickness 3+2 mm.

access ladder to the platform

FUEL SERVICE

Tank in steel sheet, S275JR grade, 4mm thick, 5.000l capacity including expansion volume complete with:

- level indicator
- side loading pipe
- support frame in steel sheet elastically fitted on the chassis
- access ladder to the tank

Pumping unit composed of:

- n.1 diaphragm pneumatic pump for fuel transfer, body in aluminium, ratio 1:1. Free flow capacity 170 LPM maxi.
- Positive displacement meter with partial and total measuring, 200 LPM capacity
- n.1 hose reel for fuel with automatic rewinding. The hose reel is fitted with 15m of 1" rubber hose and delivery gun having a capacity of 120l/min.
- n.1 hose reel for fuel with automatic rewinding. The hose reel is fitted with 15m of 1"1/2 rubber hose and Wiggins nozzle (N.B.: The Wiggins nozzle will not operate with its maximum flow capacity)
- n.1 control valve for the selection and fuel delivery from one hose or the other

EQUIPMENT AND FITTINGS

- n.1 engine-driven air compressor, screws type, **Kaeser M20**
2000l/min capacity
working pressure max. 7 bar
noise level at 7m: 68 dB (A)
driven by diesel moto Kubota D772
complete with air filter for heavy duty use, stand-by device for idle functioning, fuel tank, protecting case
- n.1 cylindrical air tank, 100 l capacity fitted with safety valve, condensation discharger, air intake tap, graduated pressure gauge
- n.1 hose reel for air with automatic spring rewind, block system, and supporting frame for guide rollers. The hose reel is fitted with 15m of suitable 1/2" rubber hose. A quick coupling is installed on the end of the hose in order to fit one of the following guns
 - blowing gun
 - spraying gun for air- diesel or air water spraying
 - inflating gun with pressure gauge for tires inflating

OILS SERVICES

- n.1 **Engine oil tank** in steel plate, capacity **1500 L** equipped with brackets for fastening, complete with bolted cover and filling plug, venting (filtered) chimney, level indicator, arrangement for pump and drain tap.
- n.1 **Hydraulic oil tank** in steel plate, capacity **1500 L** equipped with brackets for fastening, complete with bolted cover and filling plug, venting (filtered) chimney, level indicator, arrangement for pump and drain tap.

- n.1 **Axle oil tank** in steel plate, capacity **500 L** equipped with brackets for fastening, complete with bolted cover and filling plug, venting (filtered) chimney, level indicator, arrangement for pump and drain tap.
- n.1 **Transmission oil tank** steel plate, capacity **500 L** equipped with brackets for fastening, complete with bolted cover and filling plug, venting (filtered) chimney, level indicator, arrangement for pump and drain tap.
- n.2 Diaphragm oil pump for low viscosity, ratio 1:1. Free flow capacity 70 LPM
- n.2 air operated oil pump for high viscosity, ratio 5:1. Free flow capacity 45 LPM
- n.4 hose reel for oil with automatic spring rewind, block system, and supporting frame for guide rollers. The hose reel is fitted with 15m od 1/2" rubber hose. A delivery gun with litre counter is fitted on the end of the hose

EXHAUST OIL SERVICE

- n.1 tank in steel sheet for exhaust oil with fixing brackets, **1000L** capacity, complete with loading hatch, breathing chimney, level indicator, prearranged to be connected to the pump and with discharge tap
- n.1 pneumatic diaphragm pump ratio 1:1, free flow 70 LPM for exhaust oil complete with multiway valve for exhaust oil tank loading and unloading
- n.1 hose reel for exhaust oil with automatic spring rewind, block system, and supporting frame for guide rollers. The hose reel is fitted with 15 m of 3/4" rubber suction hose

COOLING LIQUID SERVICE

- n.1 tank for cooling liquid in stainless steel Aisi 304, with fixing brackets, **400l** capacity, complete with loading hatch, breathing chimney, and prearranged to be connected to the pump with discharge tap
- diaphragm pump for cooling liquid, ratio 1:1. Free flow capacity 3 LPM
- n.1 hose reel for cooling liquid in stainless steel Aisi 304, with automatic spring rewind, block system, and supporting frame for guide rollers. The hose reel is fitted with 15m of suitable 1/2" rubber hose and gun

GREASE SERVICE

- n.1 seat for positioning standard 180 kg drums complete with the necessary fittings for quick and secure fixing of the drums and with cover and follower plate.
- n.1 jib crane for drums lifting, 250 kg capacity
- n.1 air operated pump for grease, suitable for fitting to 180 kg drum, ratio 1:50, complete with quick joints for air intake and grease delivery
Free flow max. capacity 1.500 gr/min
- n.1 hose reel for grease, with automatic spring rewind, block system, and supporting frame for guide rollers. The hose reel is fitted with 15m of ¼" rubber hose
A grease delivery gun is fitted at the end of the hose reel

Pneumatic equipment: for the feeding of the various services, with rubber connecting piping between compressor, air tank, and pumps, suitable for liquids transport, and respective working pressures; dehumidifying filter and air tank reducer downstream, for the pressure adjustment, whenever it's necessary.

All hose reels are installed one besides the other on a rack structure and placed inside a lockable cabinet with internal light and rolling shutter

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

The following equipment are also comprised:

- n.4 working light right/left/rear
- n.2 beacon lights
- n.2 fire extinguisher capacity 9 kg
- Mud guards for rear wheels
- Rear step for access to hose reel rack
- Housing for n.2 spare wheels (standard size ex. 13R22,5) installed under the truck frame
- n.1 Maintenance and operation manual

External painting in the colour requested

SPARES:

- n.1 kit of first maintenance parts for air compressor
- n.1 kit of first maintenance parts for diaphragm oil pump
- n.1 kit of first maintenance parts for oil pumps
- n.1 kit of first maintenance parts for air operated grease pump
- n.1 kit of first maintenance parts for cooling liquid pump
- n.1 kit of first maintenance parts for exhaust oil pump
- n.1 oil gun with litre counter
- n.1 cooling liquid gun
- n.1 grease gun