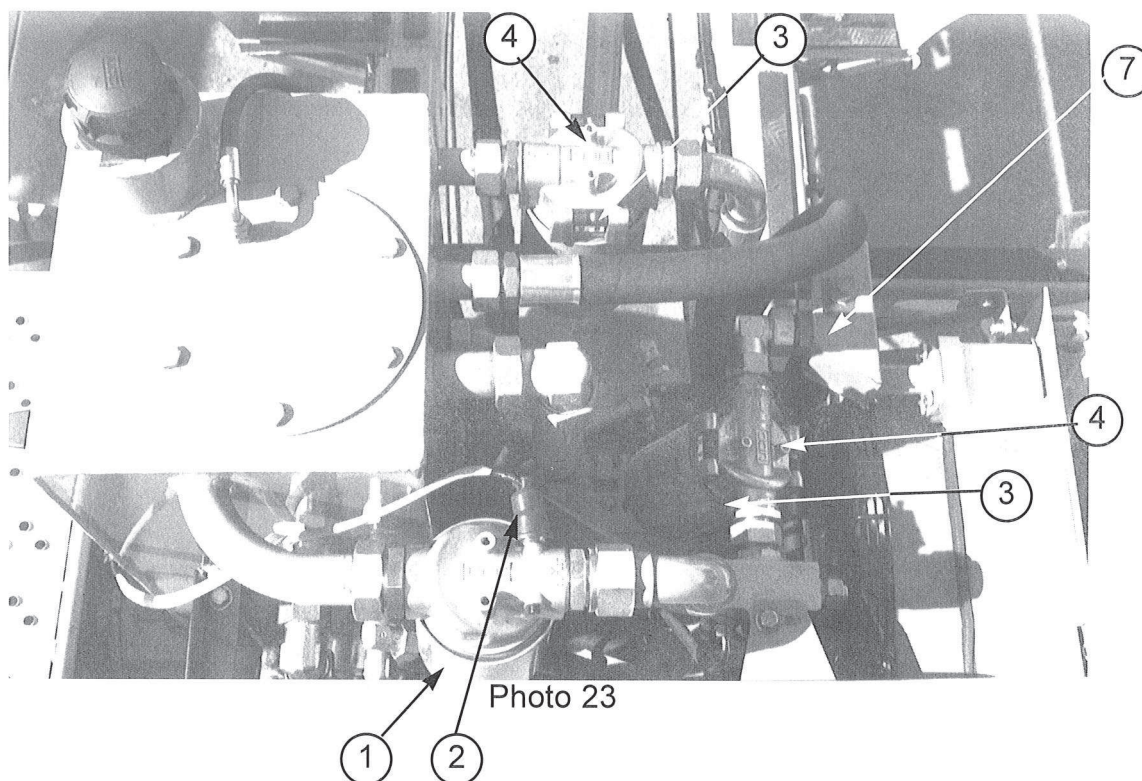


#### 4) MAINTENANCE

##### 41) The hydrostatic transmission

##### 411) The filtration

The suction filter is between the reservoir and the pump.



In normal working conditions the filter (cartridge see 1 photo 23) must be replaced at the following intervals :cartridge AUT 161209

50 H	after first start up
125 H	after first start up
Then : see maintenance table page 31	

Your machine is delivered with a cartridge allowing you to do the first service after 50h.

To change the cartridge filter the engine should be switched off.

To replace the cartridge :

- Unscrew the cartridge with a filter strap or similar and dispose of it carefully.
- Clean the filter mounting face.
- Fill the cartridge with CLEAN oil.
- Screw on the new cartridge firmly (put some oil on the seal)

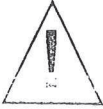


Only use cartridges recognised by MATROT



Ensure that there is no leak (a leak on the suction circuit can cause serious damage to the pump and the hydraulic motor)

If a buzzer sounds when you are working, you must stop the engine as this means that the filter cartridge is blocked. (sender see 2 photo 23).  
You must then change the cartridge regardless of the hours specified on the maintenance table.



Never disconnect the warning sender because you risk seriously damaging the hydraulic pump and motor.

In cold weather the buzzer will sound :  
You must wait until the oil temperature has risen.

#### 412) Renewing the hydraulic oil and oil level

- In normal working conditions the hydraulic oil must be changed every 875 hours (see maintenance table p 31).
- A warning light (see 39 photo 3) indicates a low oil level.
- The old oil should be drained into a suitable container.
- Drain the circuit when the oil is warm.
- The oil level should be 3/4 of the way up the sight gauge.



It is essential to use one of the oils recognised by Matrot .  
These oils are to the following specifications HV DIN 51524 PART 3

After draining the reservoir you should change the filter cartridge and replace it :  
at 50 hours  
at 125 hours  
because the new oil can contain impurities.

### **RECOMMENDED OILS TABLE**

FINA HYDRAN LZ46  Your sprayer is delivered with this oil	VEEDOL HYDRAULIC 46	UNIL HYDRALUX HV 46	TOTAL EQUIVIS ZS 46	SHELL TELLUST 46	MOTUL RUBRIC CXP 46
	MOBIL DTE 16 M	IGOL TICMA FLUID 46	HABA STATIDOP 46	ESSO UNIVIS N	ELF HYDRELF 46
	CASTROL HYSPIN AWH 46	BP SHF 46	ANTAR HYDROMAX 46	AGIP ARNICA 46	LABO HYDRA HV 46

413) Precautions after changing the oil or filter cartridges.

Operate the starter several times, without starting the engine, then start it and let it turn over slowly so that the pumps fill with oil.  
Ensure that there are no leaks in the suction pipe.

414) Practical advice

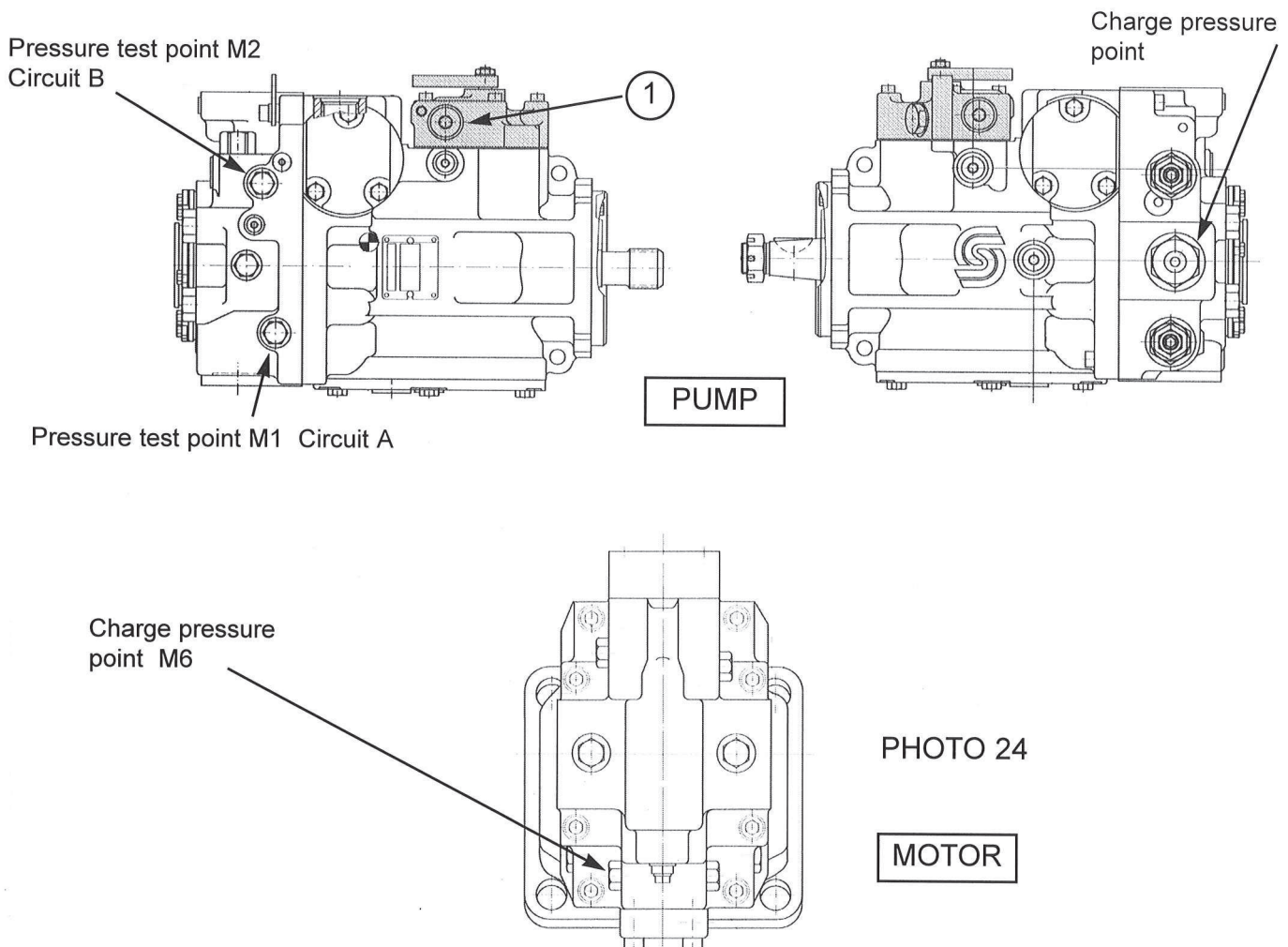
- If you need to change the hydrostatic pump or if a hose on the pump has to be changed, you must after fitting the new part and before starting the engine, refill the pump housing using the aperture corresponding to the drain pipe.
- The hydraulic circuits should be checked regularly for leaks.
- The oil cooler should be cleaned regularly. ("clean the honeycomb")
- Any dismantling or reassembling operation should be done in clean working conditions.



**Never store a machine with an empty hydraulic circuit.  
Never start the engine if there is no oil in the circuit.**

**SAFETY**

If the oil level falls below minimum, a horn will sound. (system connected to the horn)  
Stop the engine immediately and locate the problem.  
Top up with the recommended oil.

516) Pressure test points on the pumps and motors

42) The service circuits

421) The filtration

The filter cartridges (see 2, Photo 23) should be replaced at the following intervals:

50 hours of work after the first start up  
 125 hours of work after the first start up  
 Thereafter: see maintenance table page 31.

The filter cartridges should be changed before the above intervals if the indicator situated on the filter housing shows pressure above 1.5 bar (see 4 photo 23) cartridge AUT 161209.

**All the filter cartridges are identical.**

43) The mechanical transmission

The old oil should be drained into a suitable container.

431) Front steering axle (ground clearance 1000mm)

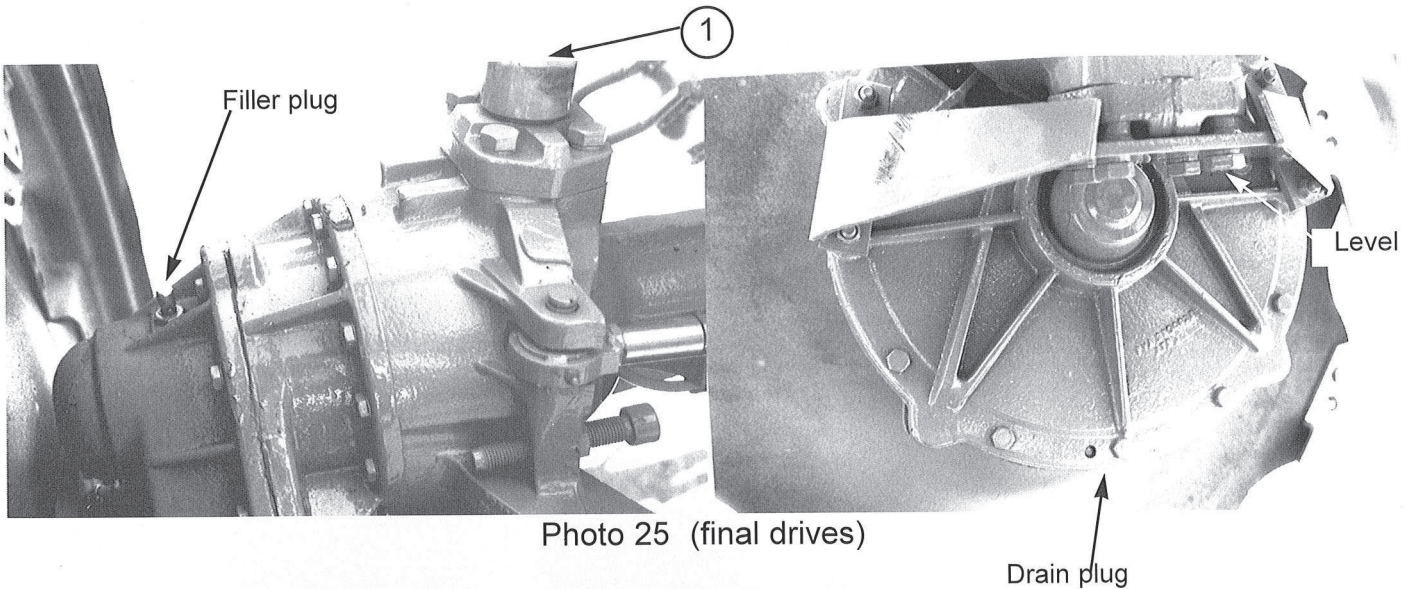


Photo 25 (final drives)

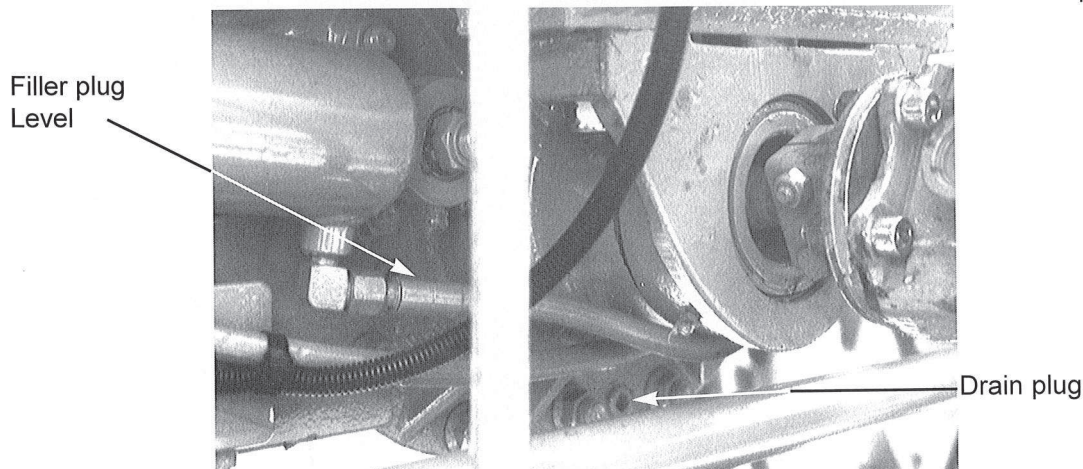
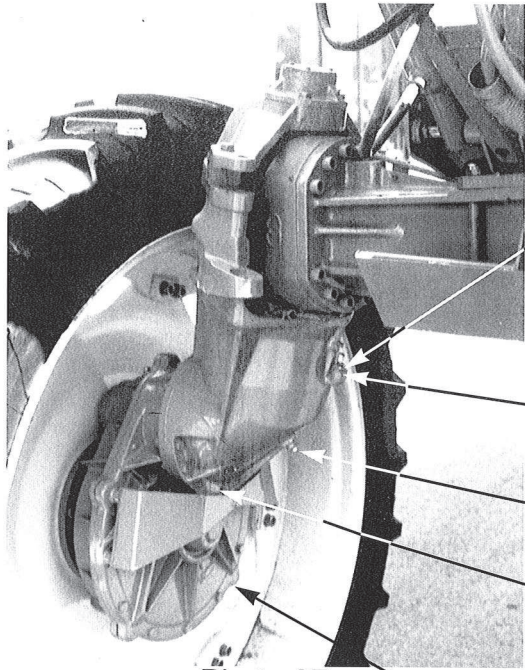


Photo 26 ( Differential ) for an axle with ground clearance 1000mm  
 for an axle with ground clearance 1300mm

The oil contained in the diferential housing is separate from the final drives.

432) Front steering axle (ground clearance 1300mm)



① Drain for upper swivel housing

Filler for lower swivel

Level for lower swivel housing

Drain for lower swivel housing

Photo 27

Final drive see photo 25

Level for upper swivel housing

Level for upper swivel housing

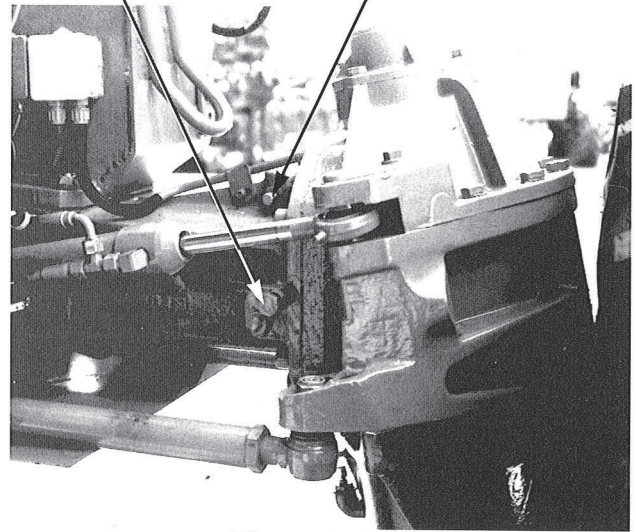


Photo 27 bis

**Note :** To drain the upper swivel housing, you must unscrew the elbow (see1 photo 27) and unscrew the socket screw which is in line with it. For the differential see photo 26.

433) Transfer gearbox

Filler plug

Photo 28

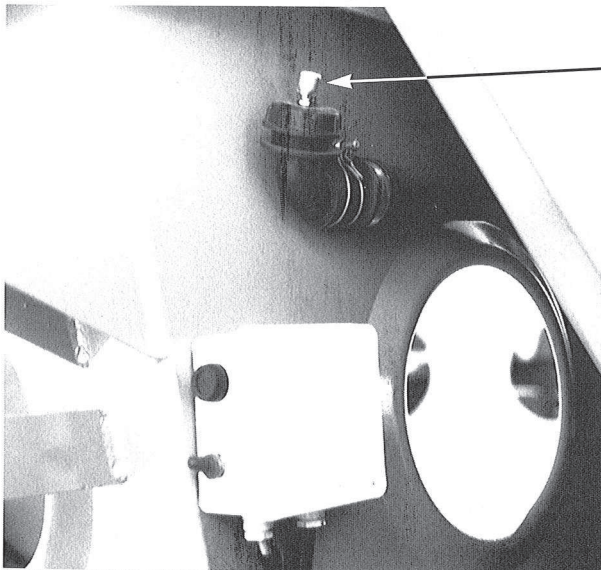
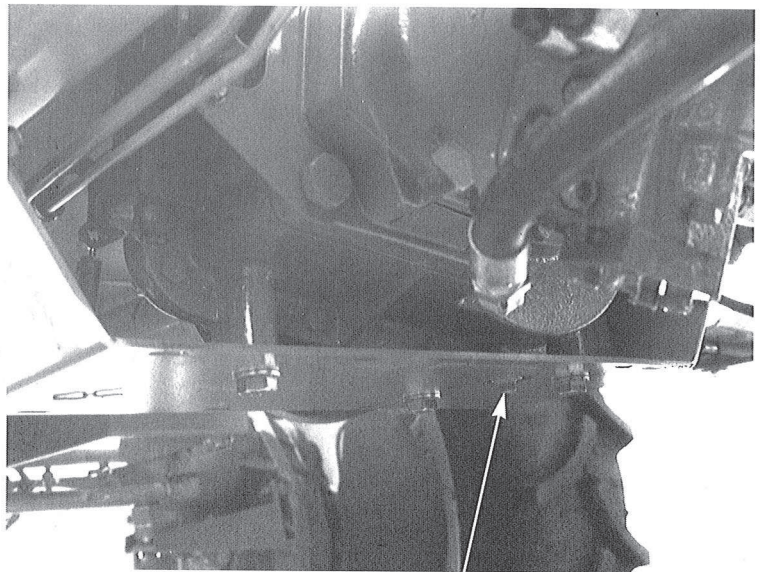


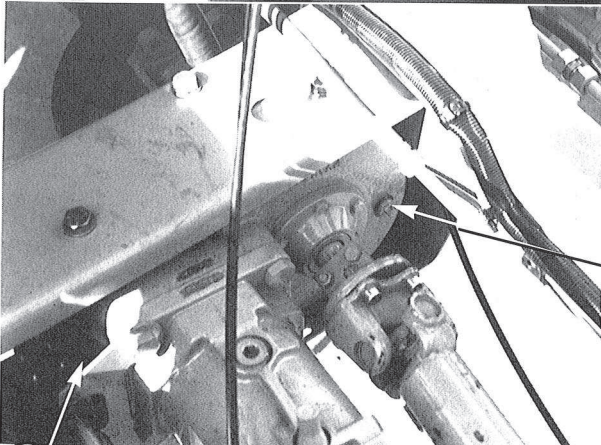
Photo 29



Drain plug

Level

Photo 30



①

44) The engine

Refer to your DEUTZ instruction manual delivered with your self propelled sprayer.

441) Recommended lubricants

Refer to the DEUTZ manual.

The engine is supplied with oil grade API "CD/SF" FINA KAPPA TD SAE 30 which is especially suitable for the running in period.

442) Oil change intervals

1st oil change after 50 hours work.

2nd oil change after 125 hours work.

Thereafter every 250 hours or once a year minimum.

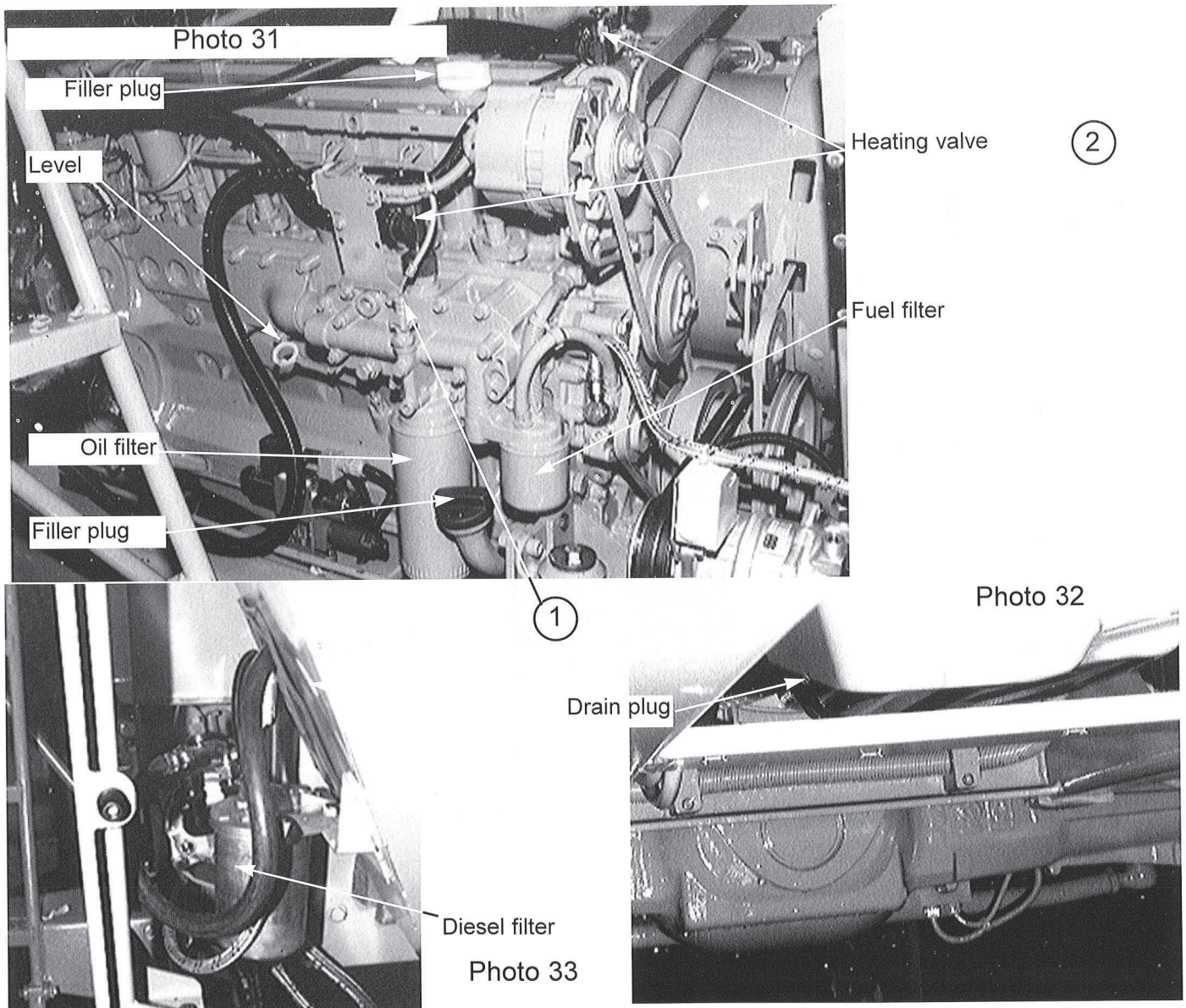
SEE MAINTENANCE TABLE PAGE 31.

See paragraph 5.1, 5.2 and 5.3 of the DEUTZ instruction for use manual

The old oil should be drained into a suitable container.

**CHECK THE OIL LEVEL EVERY MORNING**

**CHECK THE BATTERIES ELECTROLYTE EVERY 125 HOURS.**



443) Air filter

Your self propelled sprayer is fitted with a dry air filter with a cartridge.

See paragraph 6.4.4 in your DEUTZ manual for service advice.

444) Oil filter (photo 31)

See paragraph 6.1.3 in your DEUTZ manual for service advice.

SEE MAINTENANCE TABLE P31

445) Fuel filter (photo 31)

The fuel filter cartridge, see paragraph 6.2.1 in your DEUTZ manual for service advice.

SEE MAINTENANCE TABLE P31

The engine is fitted with a filter screen (see photo 33)

Check regularly that the screen is clean.

446) Air intake hoses and exhaust system

Check regularly air intake hoses condition and the security and tightness of hose clamps (photo 34)

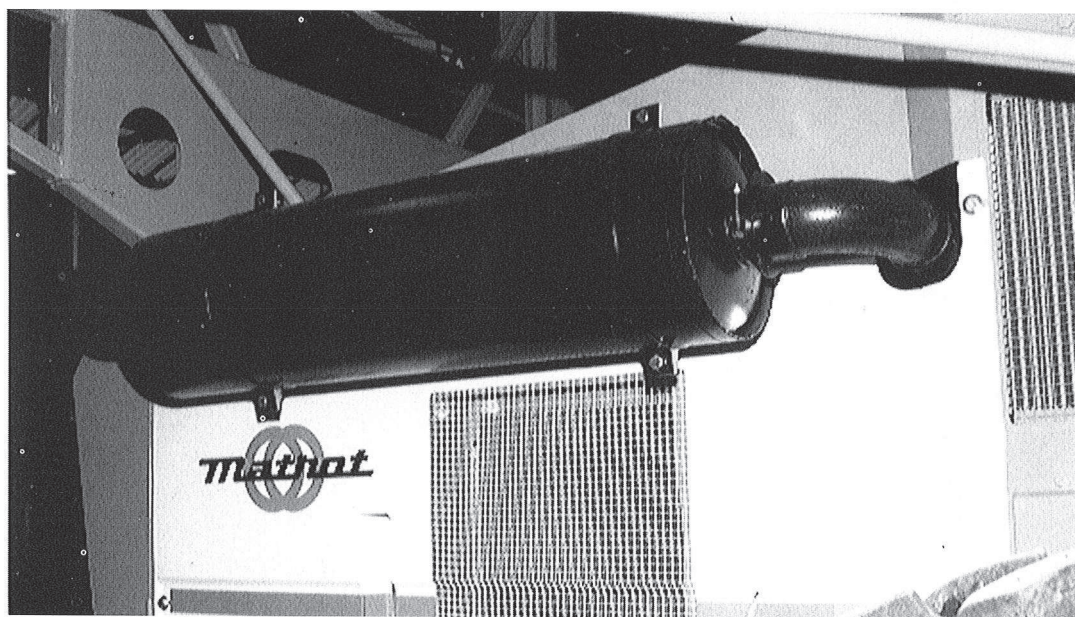


PHOTO 34

447) The engine cooling system

See paragraph 5 in your DEUTZ manual for practical advice.

SEE MAINTENANCE TABLE P31

45) Greasing

**GREASING**

● Every 20 hours

▲ Every 125 hours

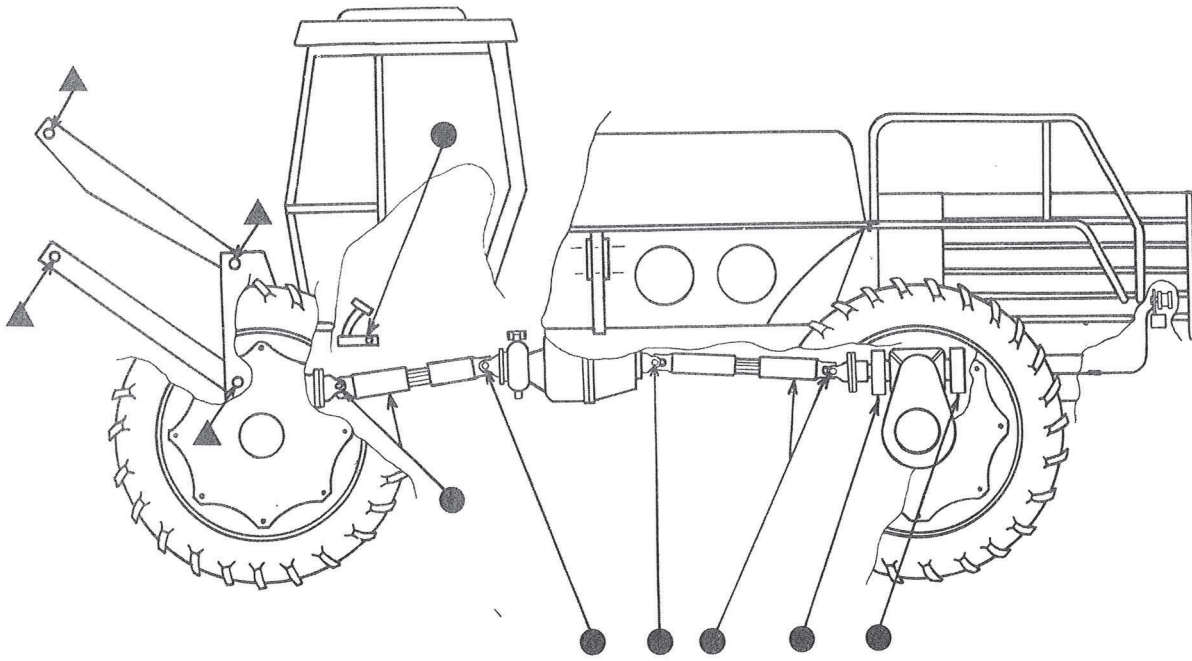


Figure 34

● Boom rams

● Boom articulation

● Incorporator articulation

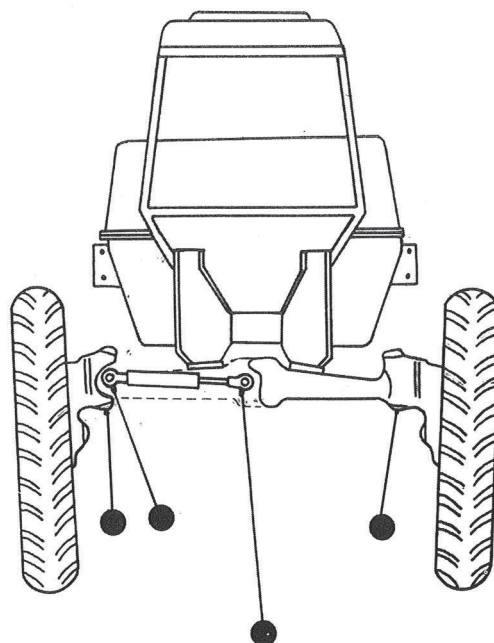


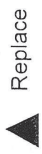
Figure 35



## RECOMMENDED LUBRICANTS AND CAPACITIES

	OIL TYPE	CAPACITY in litres
MOTEUR THERMIQUE Photo 31 and 32	KAPPA TD SAE 30	14 with the filtre
DIFFERENTIEL Photo 26	<b>PONTONIC</b> <b>LS 80 W 90</b>	8,7 Check the level after filling
REDUCTEUR FINAL Photo 25 and 27	PONTONIC EP 85 W 90	6,5
RENOI D' ANGLE SUPERIEUR Photo 27 and 27 bis	PONTONIC EP 85 W 90	2,3 ( track 2,25 m ) ou 2,6 ( track 2,50 m ) or 3,0 ( track 2,70 m )
RENOI D' ANGLE INFERIEUR Photo 27	PONTONIC EP 85 W 90	1,3
BOITE DE TRANSFERT Photo 28	PONTONIC EP 85 W 90	2,5

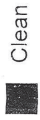
# MAINTENANCE TABLE



Replace



Check



Clean



Check the level

Hours as per hour clock	HYDRAULIC				MECHANICAL			ENGINE					
	Suction cartridge on hydrostatic circuit see 1 photo 23	Cartridge on service circuit see 3 photo 23	Hydraulic oil	Hydraulic oil cooler	Transfer gearbox oil (photo 28, 29 & 30)	Swivel housings & final drives oil (photo 25 & 27)	Differential housings oil (photo 26)	Engine oil (photo 31 & 32)	Air filter (photo 34)	Oil filter (photo 33)	Fuel filter (photo 33)	Cooling system	Cooling fan belts warning switch
10								●	●				
50	▲		+		▲	▲	▲	▲		▲	▲	●	●
125	▲	▲		■				▲				●	
250								▲				●	
375								▲				●	
500	▲			■	▲			▲		▲		●	●
625								▲				●	
750								▲				●	
875	▲	▲	▲	■	▲	▲		▲	THEN			●	●
925	▲		+					▲				●	●
1050	▲							▲		▲	▲	●	●
1175				■				▲				●	●
1300					▲			▲				●	●
1425	▲							▲				●	●
1550				■				▲		▲		●	●
1675								▲				●	●
1800	▲	▲	▲	■	▲	▲		▲				●	●
1850	▲		+					▲				●	●
1975	▲							▲				●	●
2100				■				▲				●	●
2225					▲			▲			▲	●	●
2350	▲							▲				●	●