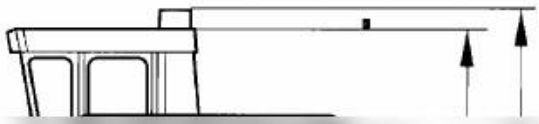
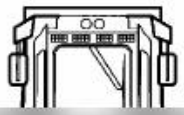
Technical Data





Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

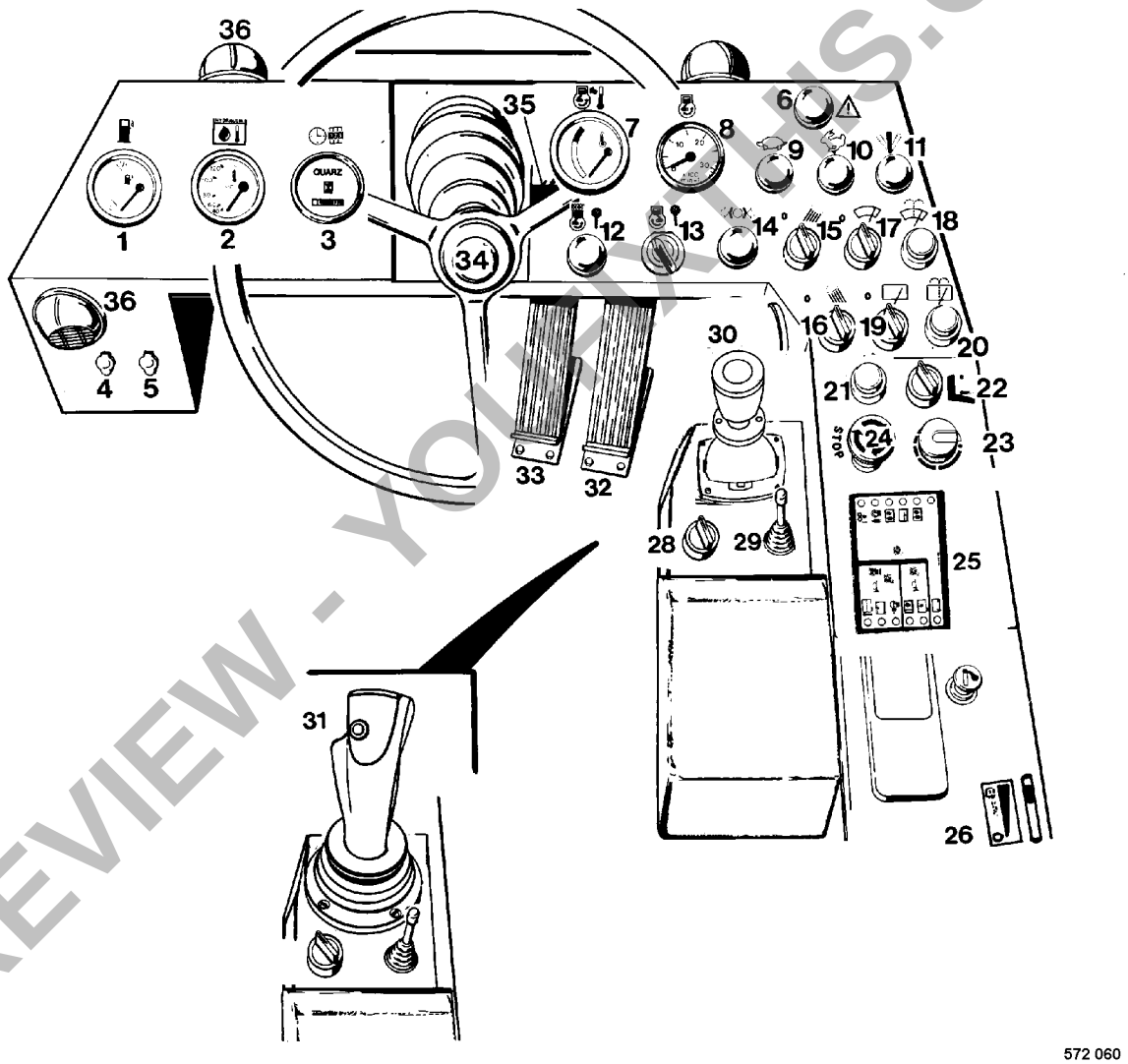


Fig. 1

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

4.1 Tests before starting to operate

Please observe the safety regulations in these operating and maintenance instructions.

Before each working day:

- Check the engine oil level
- Check the hydraulic oil level

i Note

Hydraulic systems, which are filled with Panolin HLP Synth. 46 must be refilled with the same oil. For any other ester based oils consult the lubrication oil experts of the respective oil manufacturer.

- Check the coolant level
- Check the oil level in the splitter gear

⚠ Danger

Fire hazard!

Do not refuel in closed rooms.

- Check the fuel level.
- Drain the water from the fuel prefilter (as required)
- Check fuel tank and lines for leaks.
- Inspect engine and machine visually.
- Check screw connections for tight fit.
- Check the function of the brake.
  Do not use the emergency stop for this purpose.
- Check the function of the steering system
- Check the scrapers for the compactor wheels
- Check the scrapers for the compactor wheels

⚠ Caution

Remove refuse, cables, ropes, wires etc. to avoid premature wear of the wheel shell edges.

- Check the provision container of the windscreen washer system.
- Check the adjustment of the mirrors.

i Note

Clean windows and mirrors as required.

- Check the inner sides of the compactor wheels, remove wires, cables, ropes etc.

Refer also to the maintenance instructions in this manual.

Top up missing lubricants according to the maintenance instructions.

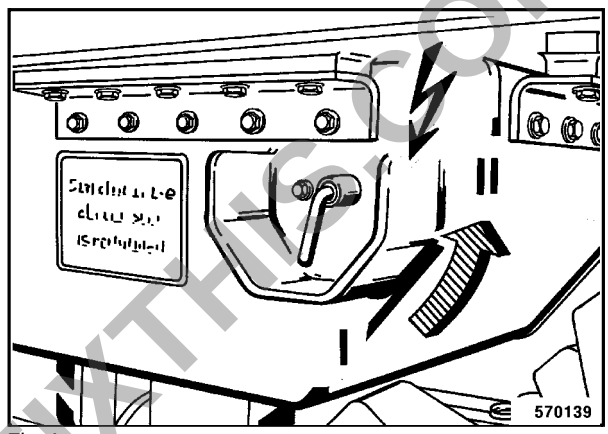


Fig. 1

- Turn the main battery switch (Fig. 1) to position "I".

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

5.1 General notes on maintenance

When servicing the machine pay careful attention to all applicable safety instructions.

Thorough maintenance of the machine ensures maximum reliability and prolongs the lifetime of important components. The effort required for these activities is small when being compared with the problems which may arise, if these instructions are not observed.

- Clean machine and engine thoroughly before starting maintenance work.
- For maintenance work park the machine on level ground.
- Remove the main battery switch during all maintenance work.
- Maintenance work must generally be carried out with the engine shut down.
- Depressurize hydraulic lines before working on them.
- Disconnect the battery and cover it with insulation material before starting to work on electrical components.

The terms left/right are always related to travel direction forward.

- Always attach the articulation lock (transport lock) before starting to work in the articulation area of the machine.
- Collect oils and fuel environmentally and do not let them seep into the ground or into the sewage system. Dispose of oils and fuel environmentally.
- Always catch and dispose of biodegradable oils separately.

Frequent causes of failures

- Operating errors
- Incorrect, inadequate maintenance

If you cannot identify the cause of a fault by following the trouble shooting chart or cannot eliminate a fault yourself, you should contact one of our service stations at our branch offices or dealers.

Notes on the fuel system

The lifetime of the diesel engine depends mainly on the cleanliness of the fuel.

- Keep the engine free of dirt and water as this could damage the injection elements of the engine.
- When choosing the storage place for fuel it must be ensured that spilled fuel will not harm the environment.
- Do not let the suction hose disturb the sludge on the bottom of the drum.
- Do not draw off fuel from near the bottom of the fuel drum.
- The rest in the fuel drum is not suitable for the engine.

Notes on the engine performance

Combustion air and fuel injection rates of the diesel engine have been carefully adjusted and determine the engine's performance and temperature level as well as the quality of the exhaust gas.

If your machine has to operate permanently in "thin air" (at high altitudes) and with full power, you should consult the after sales service of BOMAG or the service department of the engine manufacturer.

Notes on the hydraulic system

When servicing the hydraulic system cleanliness is of utmost importance. Make sure, that no dirt or other contaminating substances enter into the system. Small particles can flute valves, cause pumps to seize and block restrictors and pilot bores, thereby causing costly repairs.

- If, during the daily oil level check the oil level is found to have dropped, check all lines, hoses and components for leakages.
- Seal external leakages immediately. If necessary inform the after sales service of BOMAG.
- Clean fittings, filler caps and their immediate surrounding area before removing them, so that no dirt can fall in.
- Do not leave the tank opening unnecessarily open, cover it so that no dirt can fall in.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

6.2 Engine

Faults	Possible cause	Remedy
The engine does not run or runs too slowly	Battery cable or terminal loose, broken or corroded	Check for wear. Clean and tighhten if necessary.
	Battery too weak	Check level of electrolyte and specific density. Charge/change the battery.
	Nominal power of battery too low	Use a battery with correct nominal power.
	Incorrect oil for the operating conditions	Change oil and filter. Use specified type of oil (15W-40).
	Oil temperature too low	Install an oil sump heating or drain the oil off and fill with warm oil.
The engine turns, but does not start. (No exhaust fumes)	Fuel tank empty	Fill in fuel.
	Shut-off valve closed	Have the fuel shut-off solenoid checked by a specialist.
Engine difficult to start or does not start at all (exhaust fumes visible)	Incorrect starting	Start correctly
	Starting aid required at low temperatures	Use, check the cold starting aid
	Fuel filter clogged	Change the fuel filter
Engine starts, but goes out again	Air in the fuel system	Bleed the fuel system, tighten the fuel connections
	Fuel supply restricted, fueel system clogged due to paraffin separation in winter	Change the fuel filter, bleed the fuel system, check line connections for leakages and tighten the fittings Use winter fuel in the cold season.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Table of Contents

1 Technical Data			**2**
2 Safety regulations			**6**
3 Indicators and control elements	3.1	Description of indicators and control elements	16
4 Operation	4.1	Tests before starting to operate	28
	4.2	Starting the engine	29
	4.3	Driving the machine	32
	4.4	Emergency exit	33
	4.5	Operating the dozer blade	34
	4.6	Schaufel betätigen	35
	4.7	Dozer blade, emergency control	36
	4.8	Operating the service brake	37
	4.9	Shutting the engine down	37
	4.10	Operating the hydraulic system emergency switch	39
	4.11	Parking on a slope	39
	4.12	Towing the machine	40
	4.13	Transport of machine	41
5 Maintenance	5.1	General notes on maintenance	46
	5.2	Fuels and lubricants	47
	5.3	Table of fuels and lubricants	50
	5.4	Running-in instructions	51
	5.5	Maintenance chart	52
	5.6	Checking the engine oil level	54
	5.7	Checking the coolant level	54
	5.8	Draining the water separator in the fuel system	55
	5.9	Checking the V-belt	55
	5.10	Checking the fuel level	56
	5.11	Checking the hydraulic oil level	57
	5.12	Lubricating the dozer blade	57
	5.13	Checking the machine for damage and leaks	58
	5.14	Changing engine oil and oil filter cartridge	59
	5.15	Checking the concentration of anti-freeze agent and the coolant additive	61
	5.16	Changing the coolant filter	61
	5.17	Changing the fuel filter cartridges	63
	5.18	Checking the fastening of the scrapers	65
	5.19	Checking the oil level in the splitter gear	66
	5.20	Checking the oil level in the planetary drives	66
	5.21	Checking the engine fasteners	67
	5.22	Checking, cleaning the radiator and the hydraulic oil cooler	67
	5.23	Servicing the battery, checking the main bat-	

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

This BOMAG machine is built in accordance with the latest technical standard and the valid technical rules and regulations. There is, however, a risk of danger for persons and property if:

- the machine is used for purposes other than those it is intended for
- the machine is operated by untrained personnel
- the machine is modified or converted in an unprofessional way
- the applicable safety regulations are not observed.

Each person involved in the operation, maintenance and repair of the machine must carefully read and apply these instructions. If necessary, this should be confirmed by obtaining the signiture of the customer.

Furthermore the following regulations and instructions are obviously also valid:

- applicable accident prevention instructions
- generally acknowledged safety and road traffic regulations
- country specific regulations

Intended use

This machine must only be used for:

- compaction and distribution of refuse on sanitary landfill sites.

Any other use of the machine counts as unintended use and may cause danger for persons or damage to the machine.

- The machine must only be operated with fully functional safety equipment.
- The machine should be checked by an expert once every year.
- Machines which are used in a contaminated environment (with hazardous effects on environment and/or health) must have special protection equipment.

Unintended use

Dangers may, however, arise from the machine if it is used by untrained personnel in an unprofessional way or if it is used for purposes other than those mentioned in these instructions.

Starting and operation of the machine in an explosive environment is prohibited.

Who is allowed to work with the machine?

The machine must only be operated by trained and authorized persons which are at least 18 years of age. The responsibilities for the operation of the machine must be clearly specified and complied with.

Persons who are under the influence of alcohol, medication or drugs must not operate, service or repair the machine.

Maintenance and repair tasks require specific knowledge and must therefore only be carried out by trained and qualified personnel.

Conversions and alterations to the machine

Unauthorized conversions to the machine are prohibited for safety reasons.

Original parts and accessories have been specially designed for this machine. We would like to point out, that any parts and accessories not supplied by us have not been approved by us. The installation and/or use of such products may impair the active and/or passive driving safety.
The manufacturer expressly excludes any liability for damage resulting from the use of non-original parts or accessories.

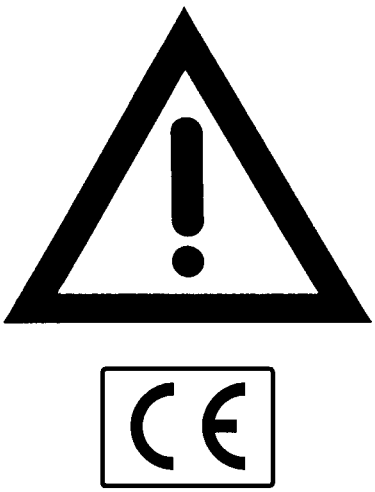
Safety notes in the operating and maintenance instructions:

⚠ Danger

Sections marked like this highlight possible dangers for persons.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



Machines marked with the CE -sign are in accordance with the latest improved safety regulations for the market within the European Union.

For machines to be used outside this area and where these regulations are not binding, BOMAG recommends the application of the same safety standards.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

No. 17 = Rotary switch, front windscreen wiper

Position "0" = windscreen wiper off

Position "symbol" = ignition switch position "I", windscreen wipers on

No. 18 = Push button, front windscreen washer system

Actuate = ignition switch position "I", the front windscreen will be sprayed with water as long as the push button is actuated.

No. 19 = Rotary switch, rear windscreen wiper

Position "0" = windscreen wiper off

Position "symbol" = ignition switch position "I", windscreen wipers on

No. 20 = Push button, rear windscreen washer system

Actuate = ignition switch position "I", the rear windscreen will be sprayed with water as long as the push button is actuated.

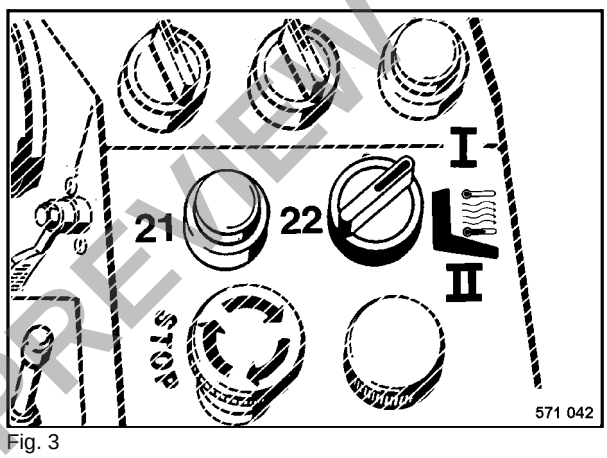


Fig. 3

No. 21 = Push button central lubrication system with control light

depress
2 seconds = the central lubrication system starts an additional lubrication cycle.

depress
1 second = to reset a malfunction. The flashing of the control light changes to a permanent light.

lights
2 seconds = with the ignition switch in position "I".

flashes
1 second on
1 seconds off = malfunction of the lubricant pump

flashes
0,5 seconds on
0,5 seconds off = grease container empty

flashes
0,5 seconds on
1 second off = malfunction of the central lubrication system

goes out after 2 seconds = central lubrication working correctly with ignition switch in position "I".

No. 22 = Rotary switch for seat heating

Position "I" = heating switched off

Position "II" = heating switched on

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

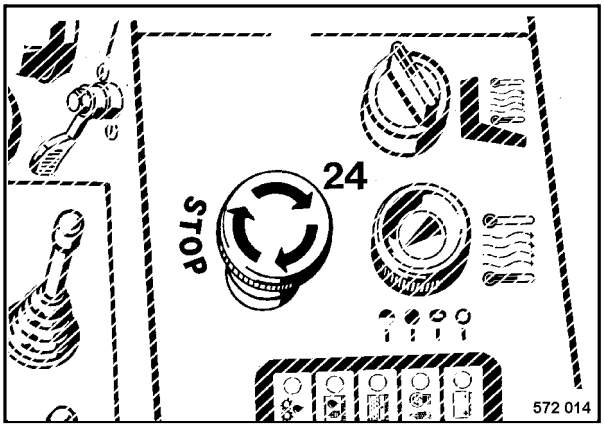


Fig. 2

- Operate the emergency stop switch 24 (Fig. 2).

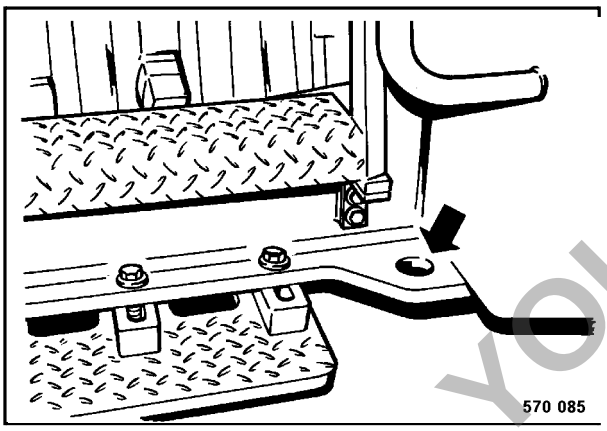


Fig. 3

- Lash the machine to the transport vehicle, fasten the lashing gear to the four lifting eyes (Fig. 3 and 4) on front and rear frame.

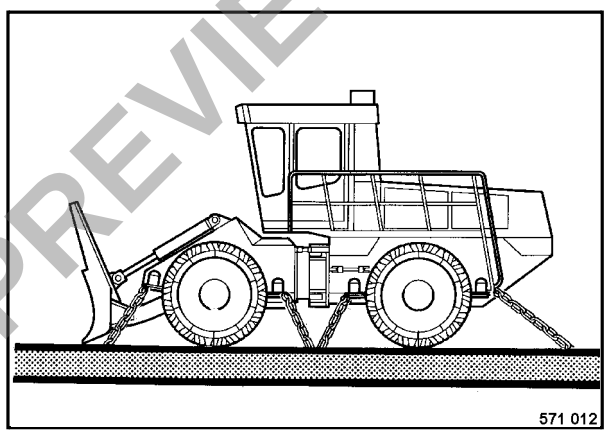


Fig. 4

After the transport

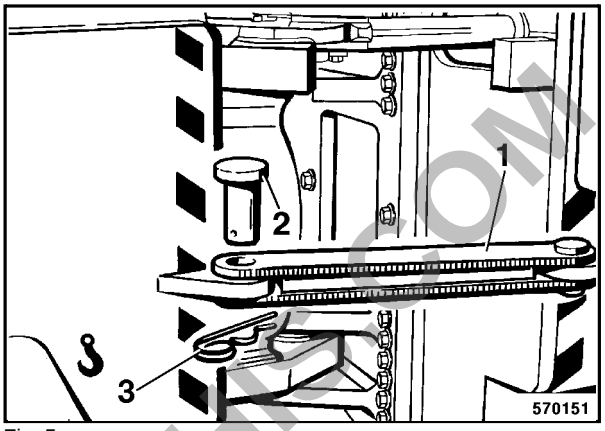


Fig. 5

- After the transport release the articulation lock (Fig. 5) and fix it in its receptacle.



Fig. 6

⚠Caution

When transporting the machine with the air intake screen (Fig. 6) folded down, ROPS and air filter may be excessively soiled.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

5.19 Checking the oil level in the splitter gear

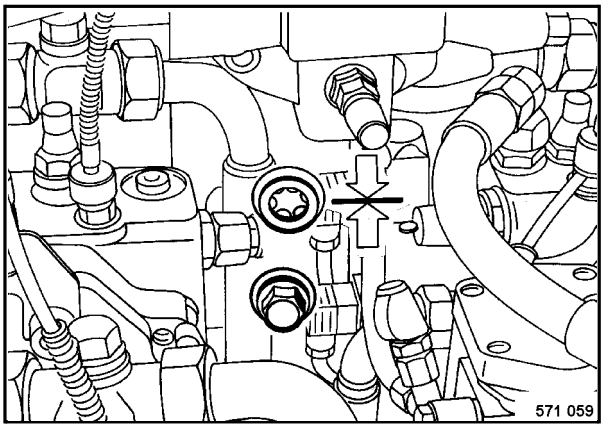


Fig. 4

- Check the oil level in the inspection glass (Fig. 4) with the engine shut down, the oil level must reach slightly above the middle of the inspection glass.

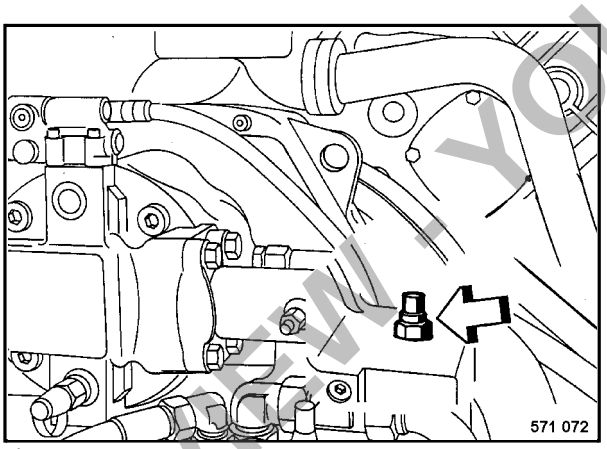


Fig. 5

- Clean the area around the breather filter (Fig. 5) and screw the breather filter out.
- If necessary top up oil.

For quality of oil refer to the table of fuels and lubricants.

- Clean the breather filter and screw it back in.

5.20 Checking the oil level in the planetary drives

i Note

Check the oil level in all four planetary drives.

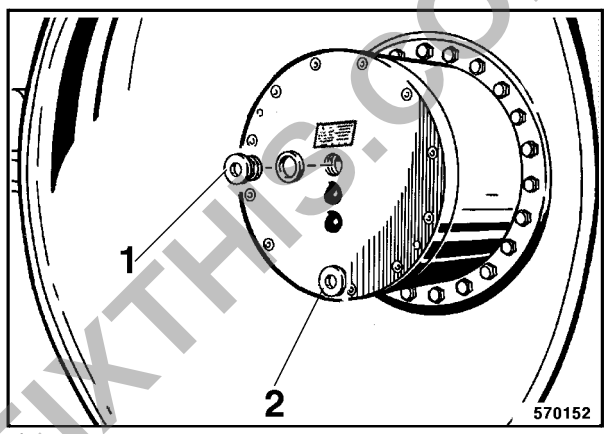


Fig. 6

- Move the machine until the drain plug 2 (Fig. 6) has reached its lowest position.
- Clean and unscrew the filler and level plug (1).
- Check the oil level
  The oil level must reach the lower edge of the bore, if necessary top up oil.

For quality of oil refer to the table of fuels and lubricants.

- Screw the filler and level plug tightly back in.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

5.36 Changing the oil in the splitter gear

Note

Change the oil only at operating temperature.

Danger

Danger of scalding!

There is a danger of scalding when draining hot oil!

Environment

Catch the old oil and dispose of environmentally.

Danger

Danger of injury!

After unscrewing place the rear lower cover on the ground, do not let it drop.

- Remove the rear lower cover.

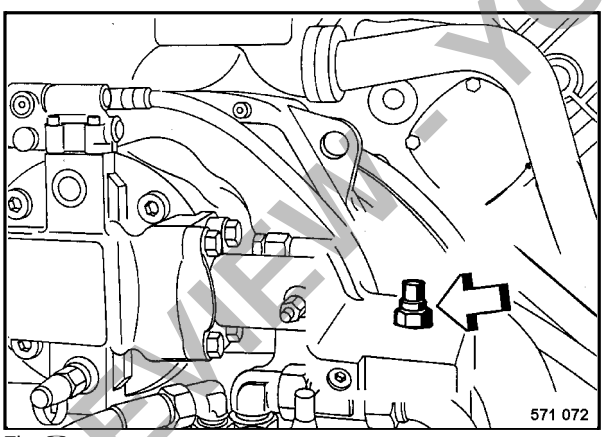


Fig. 32

- Clean the area around the breather filter (Fig. 32) and screw the breather filter out.

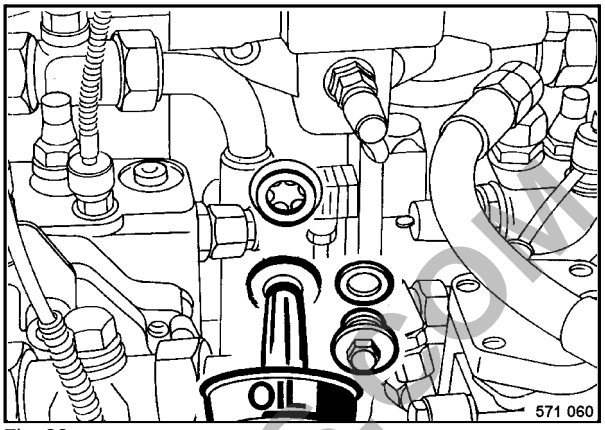


Fig. 33

- Unscrew the oil drain plug (Fig. 33), catch running out oil.
- Once all old oil has run out clean the plug and screw it back in with a new sealing ring.

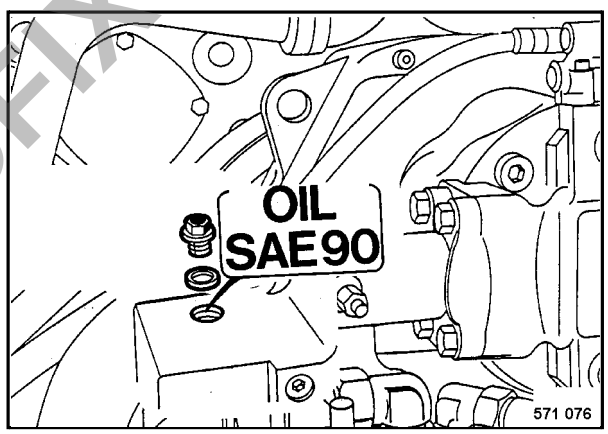


Fig. 34

- Fill in new oil (Fig. 34).

For quality and quantity of oil refer to the table of fuels and lubricants.

- Check the oil level in the inspection glass.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 128 pages

The full manual includes:

- All 128 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Bomag BC 670 RB Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual