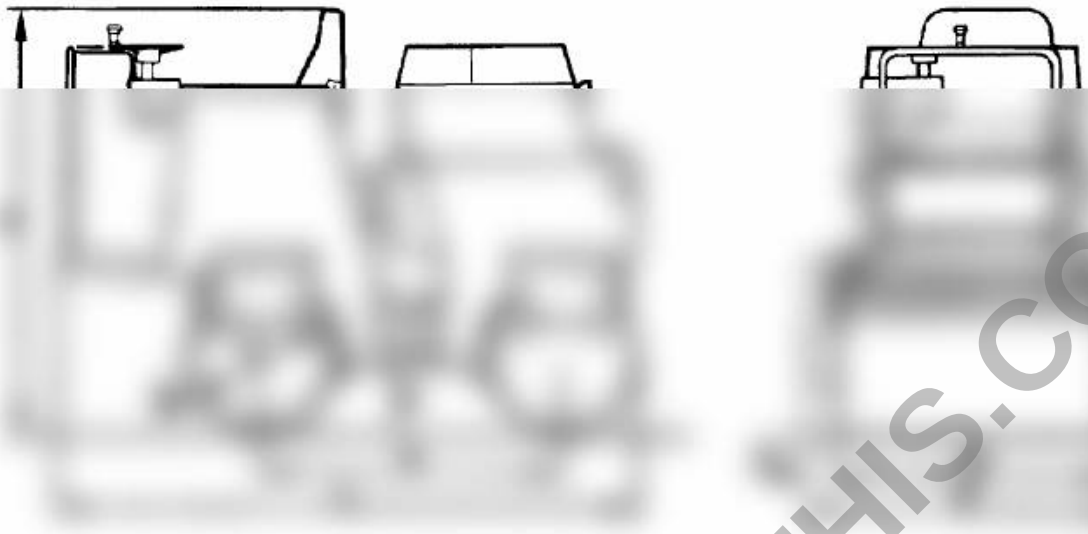


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5.1 Precommissioning Checks

Please observe the safety regulations given in Section 2 of these operating and maintenance instructions.

Perform the following checks before every working day or long periods of operation.

If necessary, top up lubricants in accordance with the maintenance instructions.

The machine should be on ground which is as flat as possible.

Check:

- Fuel tank and pipes for leaks
- Condition of engine and machine
- Secure fit of nut and bolt connections
- Correct functioning of steering

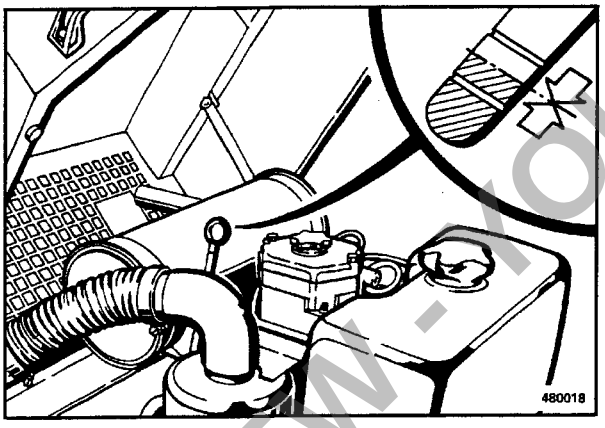


Fig. 1
1. Check engine oil level

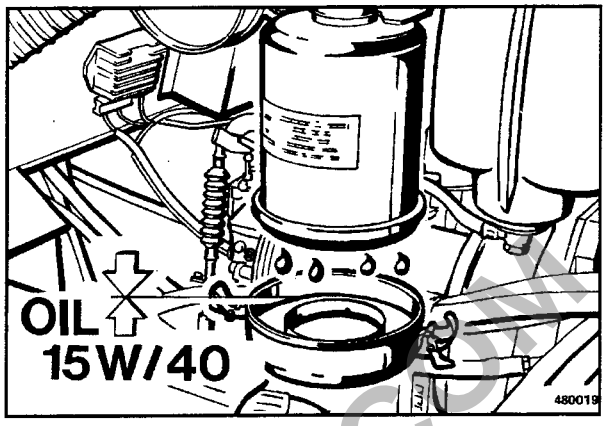


Fig. 2
2. Check oil bath air filter, clean if necessary and renew oil.

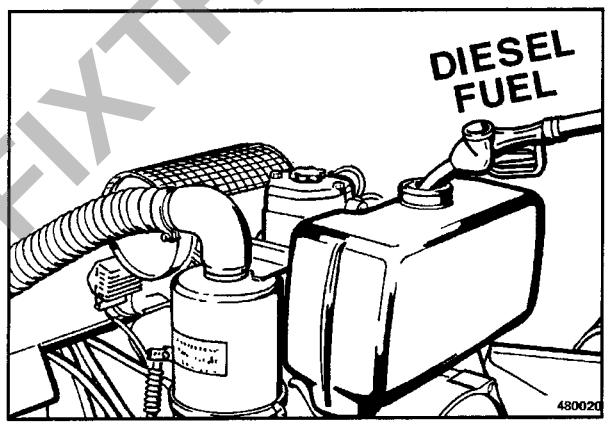


Fig. 3
3. Check fuel level, top up if necessary.

DANGER

Do not refuel in enclosed spaces.

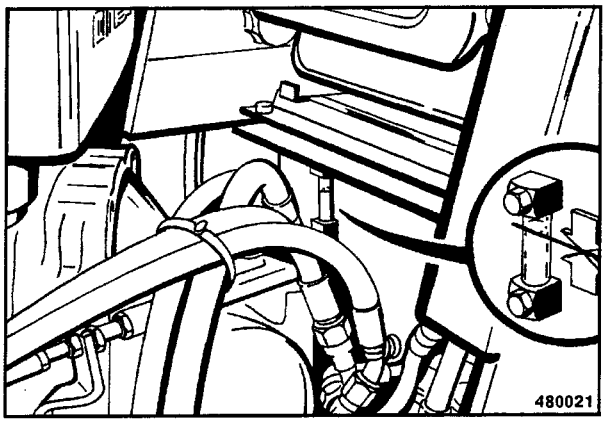


Fig. 4
4. Check hydraulic oil level, top up if necessary.

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6.1 General

IMPORTANT

When performing maintenance work, pay careful attention to the applicable safety provisions, in particular the safety regulations given in Section 2 of these operating and maintenance instructions.

Careful maintenance of the machine ensures maximum reliability and prolongs the service life of important components. The work involved is small compared to the problems which may occur if these instructions are not observed.

- Clean the machine and engine thoroughly before all maintenance work.
- Carry out maintenance work on a level base.
- Only perform maintenance work with the engine shut down.
- Depressurize hydraulic hoses before performing work on them.
- Before performing work on electrial components of the machine, disconnect the battery and cover with insulating material.
- The terms "right/left" are always referred to the direction of travel.
- Attach the articulation lock when working in the area of the articulated joint.



- When performing maintenance work, catch all oils and fuels and do not let them seep into the ground or the sewage system. Carefully dispose of all oils and fuel.
-  Keep used filters in a separate waste container, see symbol opposite, and dispose of them carefully to avoid pollution.

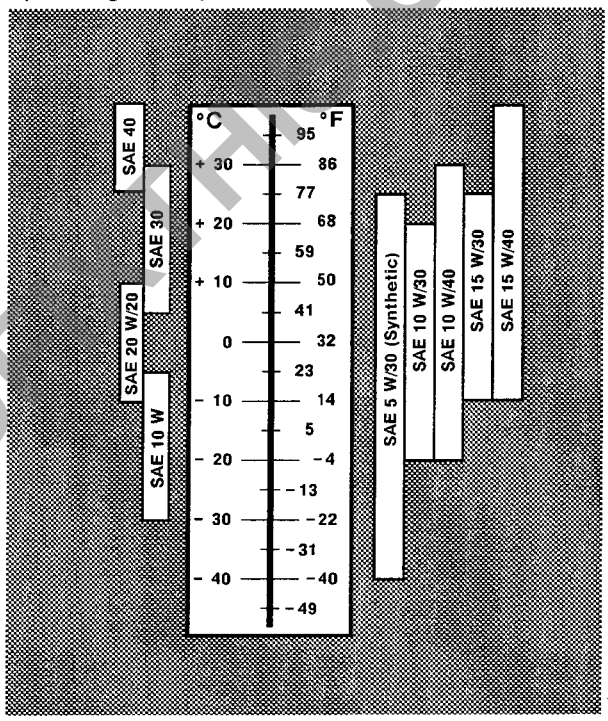
6.2 Fuels

Engine Oil

Only use winter-grade engine oil at low temperatures!

To ensure a perfect cold start it is important to choose the viscosity (SAE grade) of the engine oil in accordance with the ambient temperature.

The oil change intervals must be reduced when operating at temperatures below -10°C.



Lubrication oil with a too high viscosity index will cause starting difficulties. The temperature when starting the engine is therefore decisive for selecting the correct viscosity for winter operation.

Oil Viscosity

Since the viscosity of the lubrication oil changes with temperature, the ambient temperature at the engine's operating location determines the viscosity class (SAE grade) to be chosen (see diagram).

Although cold starting ability may be impaired if the temperature occasionally falls below the limit (e.g. use of SAE 15W/40 down to -15°C), this will not cause engine damage.

Having to change the lubrication oil due to changes in temperature can be avoided by using multigrade oils. The oil change intervals given below also apply for multigrade oils.

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7.1 General Trouble Shooting Instructions

Refer to the safety regulations in Section 2 of these operating and maintenance instructions.

Faults are frequently due to the fact that the machine has not been operated or maintained properly. Therefore, whenever a fault occurs, carefully read through the instructions on correct operation and maintenance. If you cannot locate the cause of the fault or cannot eliminate it yourself using the trouble shooting charts, you should contact our customer service departments at our branch offices or dealers.

On the following pages, you will find a selection of fault remedies. It goes without saying that not all causes of faults can be listed.

The following checks are used for fault diagnosis and are intended for precise location of a fault in the hydraulic system.
In many cases, faults in the hydraulic components of the power transmission system can also be determined using these tests.

Using information obtained from the initial tests, the individual test points have the purpose of initially limiting the cause of the fault to a general area and then to determine precisely which oil circuit or hydraulic component is faulty.

These tests are to be performed if the hydraulic units are operating too slowly or are not functioning at all, if the hydraulic oil is overheating or if major repairs have to be performed on the hydraulic system and power transmission elements. In all cases, the tests are to be performed in the sequence given below and the instructions complied with exactly.

Important Points on Trouble Shooting and Fault Elimination

- Hydraulic oil escaping under pressure can penetrate the skin and cause serious injury. You should therefore depressurize the system before removing lines. Before building up the pressure again in the system, make sure that all line connections are tight and that all lines are in perfect condition. Hydraulic oil emerging from a small opening is difficult to see. You should therefore use a piece of cardboard or wood when looking for leaks.
  Contact a doctor if you are injured by pressurized oil, otherwise serious infections may result.
- Check the level of the hydraulic oil before and after work.
- Only fill with clean oil corresponding to the specification.
- Check the hydraulic system for leaks, determine the causes and eliminate them.
- Fill up new units with hydraulic oil before commissioning.
- Thoroughly bleed and flush the hydraulic system after changing a unit.
- As far as possible, perform all measurements at the operating temperature of the hydraulic oil (approx. 50°C/122°F).
- After changing a unit, check the charge pressure and high pressure and, if necessary, the rpm.

In the trouble shooting charts, it has been assumed that the machine has been correctly equipped and connected and that there are no faults with the connections and hoses.

The chart lists progressive tests for locating the cause of the fault and, consequently, its elimination by trained personnel.

It is not advisable to open or repair the hydraulic elements unless you are fully familiar with them.

CAUTION

Only use the specified pressure gauges, or the pressure gauges may be destroyed!

Ensure absolute cleanliness, clean the connections and fittings before disassembling them.

Cover all openings and connections or seal with plugs.

DANGER

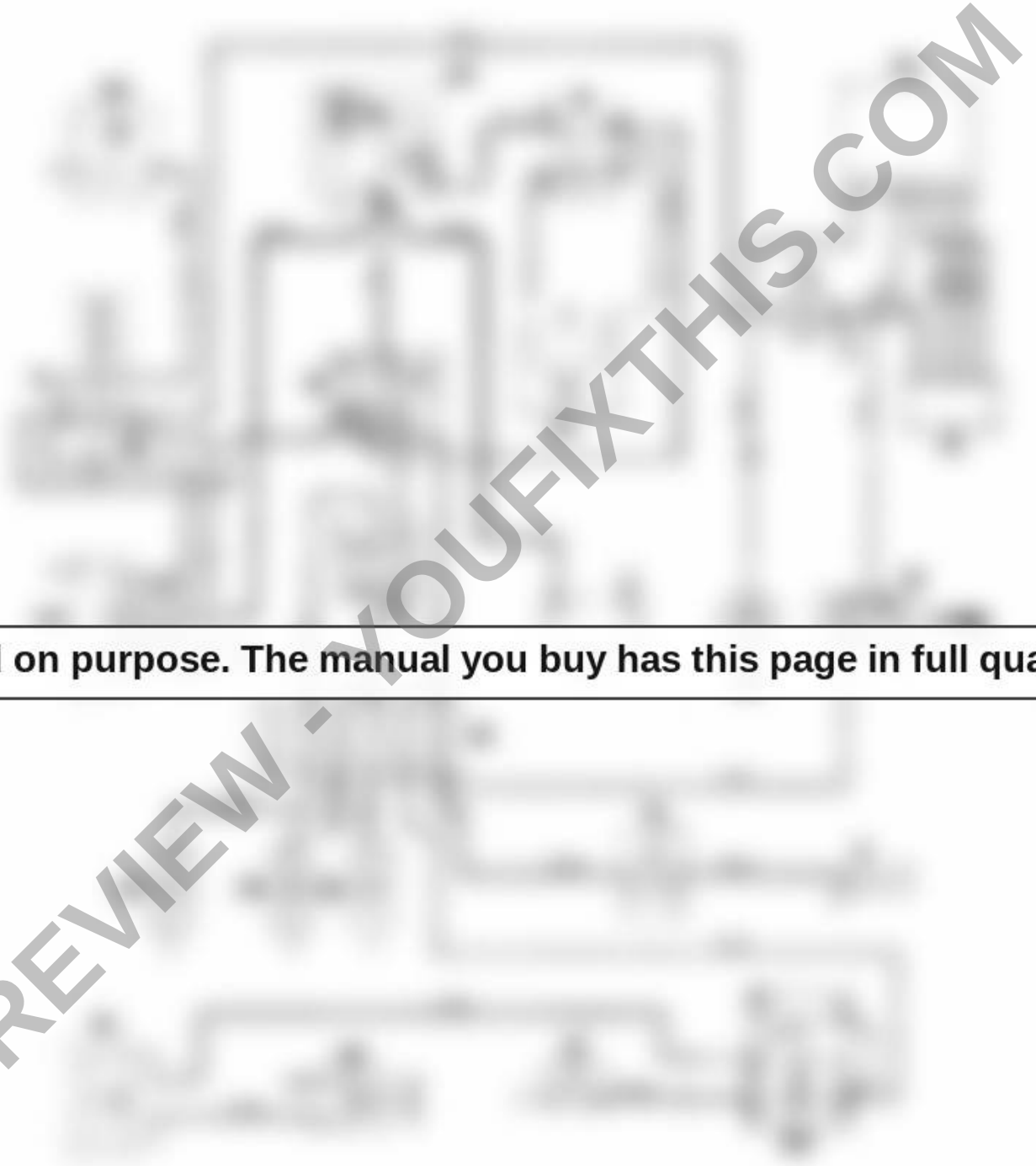
Keep away from rotating parts of the engine. Danger of injury!

When working on the travel pump, lock the drums with wedges. Danger of injury!

Hydraulic oil emerging under pressure can penetrate the skin and cause serious injury.

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Introduction

These safety regulations must be read and applied by everyone involved in the operation, maintenance or repair of the machine.
This should be confirmed by obtaining the signatures of the relevant personnel if necessary.

This BOMAG machine is built according to state-of-the-art technology for safe operation.

This BOMAG machine has also been tested by an officially recognised testing station for operational safety and has the approval mark "GS safety tested".

Correct operation

This machine is intended for use in the compaction of bituminous material (road surfacings) and light compaction work in earthwork (subbase).

Incorrect operation

However, there is a risk of danger if the machine is used improperly by untrained personnel or is used for purposes other than those intended.

This machine may only be driven and operated by trained and authorized personnel.

Noise protection

It is not necessary to use ear protection for this machine, because the noise level at the operator's ear is below 90 dB(A).

Note

The operating and maintenance instructions include headings such as "NOTE", "CAUTION" and "DANGER". These must be complied with at all costs.

NOTE

Sections headed "NOTE" referring to operation and maintenance must be complied with.

CAUTION

Sections headed "CAUTION" relate to operating and maintenance procedures which must be complied with in order to prevent damage to the machine and other equipment.

DANGER

Sections headed "DANGER" relate to operating and maintenance procedures which must be complied with in order to prevent risk of injury or loss of life.

General

- Make sure that you are familiar with all the equipment of your machine.
- Do not drive the roller until you are fully familiar with all the operating and control elements and know precisely how your machine works.
- Familiarize yourself with the area where you will be working.
- Only use the roller for the purpose it is intended.
- Wear protective clothing such as safety helmet and protective shoes.
- Do not make any conversions or changes to the machine, since this may endanger safety.
- Original parts and accessories have been designed specially for the machine.
- We wish to make expressly clear that we have not tested or authorized any original parts or special equipment not supplied by us. The installation or use of such products can therefore have an adverse effect on specified design characteristics and/or passive driving safety.
  The manufacturer expressly excludes any liability for damage resulting from the use of non-original parts or accessories.
- Note the following when machine comes into contact with highvoltage power lines:
  - Move the machine out of the danger zone
  - Do not leave the operator's platform
  - Warn others from coming close to the roller or touching it
  - Have the power shut down.
- Keep away from the machine's articulation area when the engine is running! Danger of injury!
- Exhaust gases are dangerous. Ensure an adequate supply of fresh air when starting up in enclosed spaces.

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