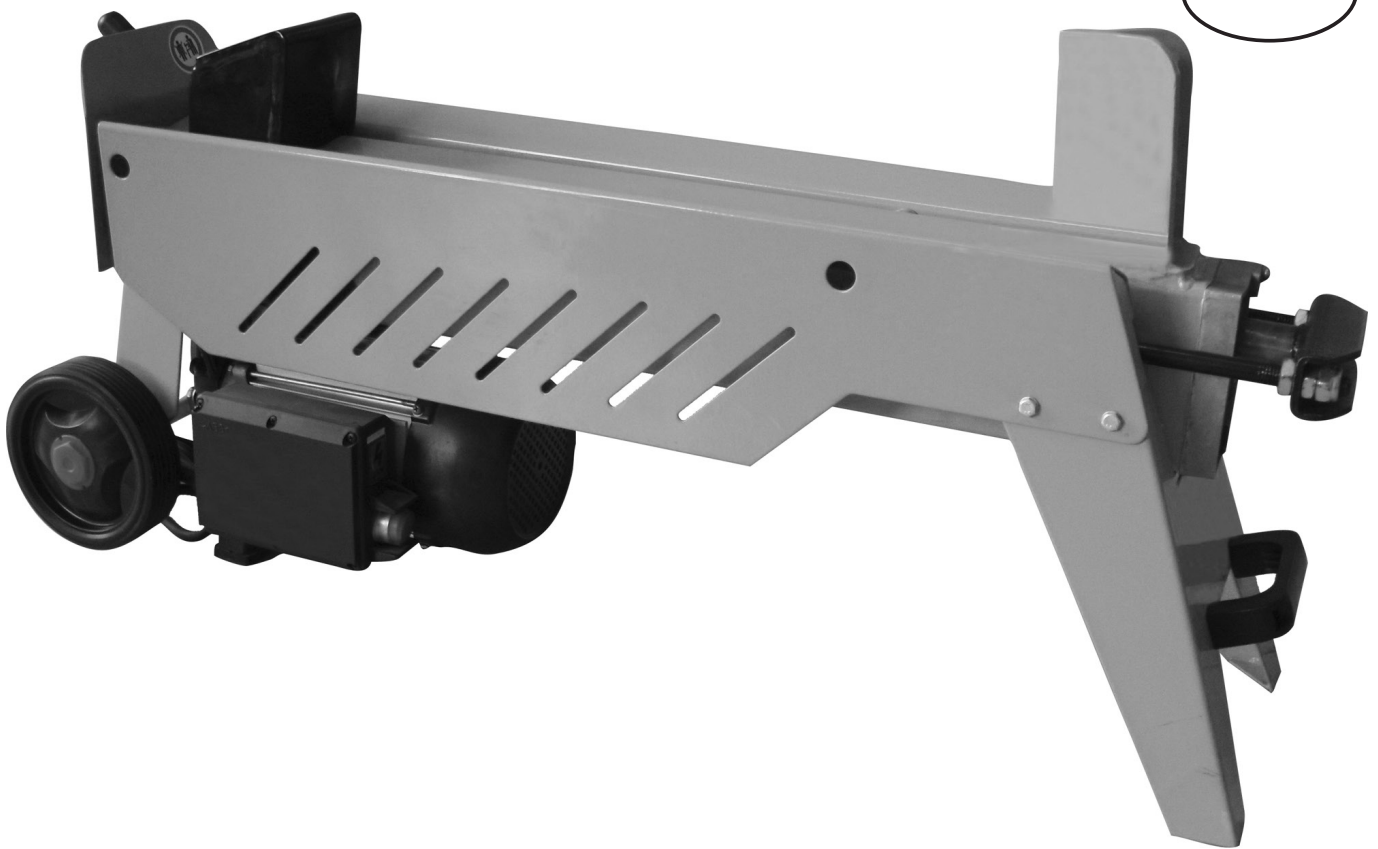


# Owner's Manual

## RLT6A

UK



**ALNOVA®**

Millasur, SL  
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**Do not operate machine before having read the operating instructions, understood all the notes and assembly the machine as described here.**

**Keep the instructions in a safe place for future use.**

## Contents

Extent of delivery	9
Symbols machine / operating manual	9
Proper use	9
Residual risks	10
Safe working	10
Description of device	11
Positioning	11
Start-up	11
Working with the log splitter	12
Maintenance and care	14
Guarantee	15
Possible problems	16
Technical data	16
Declaration of Conformity	41
Spare parts	42

## Extend of delivery

 After unpacking, check the contents of the box

- That it is complete
- Check for possible transport damage

Report any damage or missing items to your dealer, supplier or the manufacturer immediately. Complaints made at a later date will not be acknowledged.

- 1 ready mounted machine unit
- 1 operating manual
- 1 operating lever

## Symbols machine



Read the operating and safety instructions thoroughly before commissioning the machine.



Wear safety shoes when working with the machine to protect the feet from falling logs.



Wear safety gloves when working with the machine to protect the hands from chips and splinters.



Wear safety goggles when working with the machine to protect the eyes from chips and splinters.



Do not remove or modify any protection or safety devices.



Nobody else should be in the working area of the machine other than the operator. Keep other persons or animals out of the danger area (minimum distance 5 m).



Danger of being cut or trapped; never touch any dangerous parts when the splitting wedge is in motion.



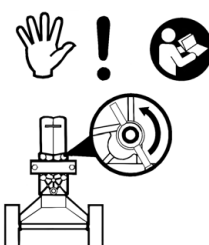
Caution!  
Always note when the log ram is in motion.



Caution!  
Never remove a log jammed against the wedge by hand.



Caution!  
Before starting any repair, maintenance or cleaning work, always switch off the motor and remove the plug from the socket.



Stop!  
Follow the operating instructions.  
Open the bleed screw

➔ Bleeding Page 13

## Symbols operating manual



**Threatened hazard or hazardous situation.** Not observing this instruction can lead to injuries or cause damage to property.



**Important information on proper handling.** Not observing this instruction can lead to faults.



**User information.** This information helps you to use all the functions optimally.



**Assembly, operation and servicing.** Here you are explained exactly what to do.

## Symbol machine / packaging



Electrical devices do not go into the domestic rubbish. Give devices, accessories and packaging to an ecofriendly recycling.


According to the European Directive 2002/96/EC on electrical and electronic scrap, electrical devices that are no longer serviceable must be separately collected and brought to a facility for an environmentally compatible recycling.

## Proper use

- The log splitter must only be used for splitting logs.
- The log splitter is only applicable for the private utilization in the field of house and hobby.

- Only straight-cut logs are suitable for use with the log splitter.
- Metal parts (nails, wire etc.) must be removed from logs before splitting.
- The intended usage also includes compliance with the operating, servicing and repair conditions prescribed by the manufacturer and following the safety instructions included in the instructions.
- Any other use is deemed not to be use as prescribed. The manufacturer is not liable for any type of damage resulting from this: the user bears the sole risk.
- Unauthorised modifications on the log splitter exclude a liability of the manufacturer for damages of any kind resulting from it.
- Only persons who are familiarised with the device and informed about possible risks are allowed to prepare, operate and service this device. Repair works may only be carried out by us or by a customer service agent nominated by us.

## Residual risks

 Even if used properly, **residual risks** can exist even if the relevant safety regulations are complied with due to the design determined by the intended purpose.


Residual risks can be minimised if the “Safety information” and the “Intended usage” as well as the whole of the operating instructions are observed.

Observing these instructions, and taking proper care, will reduce the risk of personal injury or damage to the equipment.

- Failure to observe the safety precautions can lead to injury to the operator or damage to property.
- Risk from electricity, by using non-standard electrical connections.
- Touching live parts of opened electrical components.
- Risk of fire and slipping by leaking hydraulic fluid.

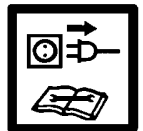
In addition, in spite of all the precautionary measures taken, non-obvious residual risks can still exist.

## Safe working

 **Before commissioning this product, read and keep to the following advice. Also observe the preventive regulations of your professional association and the safety provisions applicable in the respective country, in order to protect yourself and others from possible injury.**

- ① Pass the safety instructions on to all persons who work with the machine.
- ① Keep these safety instructions in a safe place.
- Make yourself familiar with the equipment before using it, by reading and understanding the operating instructions.
- Do not use the machine for unsuitable purposes (see “Normal intended use” and “Working with the log splitter”).


- Ensure that you have stand in a **secure standing position** and maintain your **balance** at all times.
- Take a **working position**, which is behind the slide of the area of the operating lever. Never stand in the splitting wedge's zone.
- Never stand on top of the machine.
- **Pay attention** at all times. Take care with what you are doing, and approach the work **sensibly**. One moment of carelessness when using the device can result in serious injuries. Do **not** use the machine:
  - when you are **tired**.
  - under the influence of drugs, alcohol or medications that may impair your powers of judgement.
- When working with the machine, always wear
  - protective goggles or face mask
  - safety gloves
  - ear protection, if necessary
  - safety shoes with steel toe-caps
- Wear suitable work clothing:
  - do not wear any loose-fitting clothing or jewellery, since these may be caught or trapped by moving parts
- Within his area of work **the operator** is responsible for third parties.
- The machine may not be operated by **children or young people under the age of 18**.
- Keep **children** away from machine.
- Never operate the machine if **other persons are in the immediate vicinity**.
- **Never** leave the saw **unattended**.
- Keep your **workplace in an orderly condition**! Untidiness can result in accidents.
- Do not overload the machine! You work better and safer in the **given performance range**.
- Only operate the machine with complete and correctly attached **safety equipment** and do not alter anything on the machine that could impair the safety.
- **Faulty or damaged parts** in the device must be replaced immediately.
- Do **not spray machine with water** (this is hazardous due to live components).
- Do **not** leave the machine **standing in the rain** or use when raining.
- Store the **unused machine** in a dry locked place away from the reach of children.
- Switch the machine off and **remove the mains plug from the socket** when
  - carrying out repair works
  - carrying out servicing and repair works, removal of faults
  - transporting
  - leaving unattended (even during short interruptions)
- Check the machine for possible damage
  - Before continuing to use the machine, the **protective devices** must be inspected to ensure that they work perfectly and with their intended function
  - Check whether the movable parts function perfectly and do not stick or whether the parts are damaged. All parts must be correctly installed and fulfil all conditions to ensure perfect operation of the saw





- **Damaged guards** and parts must be properly repaired or exchanged by a recognized, specialist workshop; insofar as nothing else is stated in the instructions for use.
- Damaged or illegible **safety warning labels** should be **replaced** immediately.

## Electrical safety

- **Electrical connections** must conform to IEC 60245 (H 07 RN-F) with a cable cross-section of at least  $\Rightarrow 2.5 \text{ mm}^2$  for a maximum cable length of up to 10 m
- Never use the machine with a power supply cable of over 10 m in length. Longer power supply cables will cause a drop in voltage. The motor will not be able to provide its maximum performance and the operation of the machine will be impaired.
- When laying the **connecting attachments**, be sure that they do get crushed or bent, and that the plug-and-socket connection does not get wet.
- Do not use the **cable** for purposes for which it is not meant. **Protect** the cable against **heat, oil and sharp edges**. Do not use the cable to pull the plug from the socket.
- Regularly check the **extension cables** and replace them if they are damaged.
- Do **not use any defective connection cables**.
- When working outdoors, only use extension cables especially **approved** and appropriately labelled for outdoor use.
- Do **not set up any provisional** electrical connections.
- **Never bypass** protective devices or deactivate them.

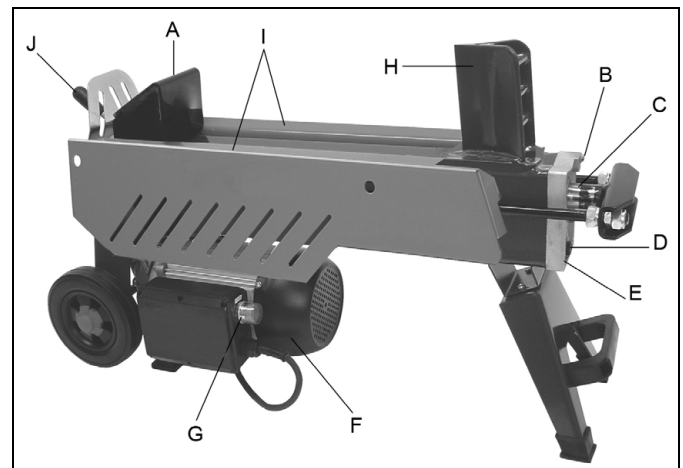
 The **electrical connection** or **repairs** to electrical parts of the machine must be carried out by a certified electrician or one of our customer service points. Local regulations – especially regarding protective measures – must be observed.

 **Repairs** to other parts of the machine must be carried out by the **manufacturer** or one of his customer service points.

 Use only original spare parts, accessories and special accessory parts. Accidents can arise for the user through the **use of other spare parts**. The manufacturer is not liable for any damage or injury resulting from such action.

## Description of device

**Fig. 1**



A	Log ram	F	Electric motor
B	Bleed screw	G	Operating pushbutton
C	Piston rod	H	Splitting wedge
D	Dipstick	I	Log guide plates
E	Cylinder cover	J	Operating lever

## Positioning

Position the log splitter on a work surface at a height of about 60 – 75 cm, this will create an comfortable working position.

Place chocks under the wheels to prevent the machine rolling during operation.

Ensure that the working area meets the following conditions:

- no danger of slipping
- level
- free of obstacles
- sufficiently well lit

Do not operate the machine in the direct vicinity of gas or petrol pipes or containers, or any other easily inflammable materials.

## Start-up

- **Check** that the machine is completely and correctly assembled.
- **Before using the shredder**, make sure each time that
  - there are no faulty connections (tears, cuts, etc.)
  - there are no damage at the machine
  - all screws are tight
  - check the hydraulic system for any possible leaks

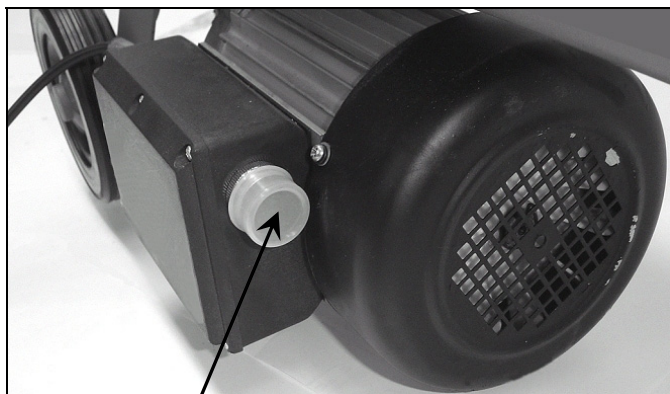
### Mains connection

- Compare the voltage given on the machine model plate e.g. 230 V with the mains voltage and connect the machine to the relevant and properly earthed plug.
- Only use **connection cables** with sufficient diameters.
- Connect the machine via a 30 mA fault current safety switch.

### Fuse protection: 16 A

### Operating pushbutton

Fig. 2




Operating pushbutton

### Switching on

Push the green button. The motor is running as long as the green button remains pushed.

### Switching off

Stop pushing the green button.

 Do not use any device where the operating pushbutton does not work properly. Repair or replace damaged pushbuttons immediately.

### Hydraulics

- Never operate the machine in the event of any possible danger from hydraulic fluid.
- Ensure that the machine and working area are clean and free of oil.

#### **Danger of slippage or fire!**

- Check the hydraulic reservoir regularly to ensure that it contains enough hydraulic oil (see "Care and maintenance")

 **Capacity:** 3.2 litres

### additional SAFETY INSTRUCTIONS

- The log splitter may only be operated by a single person.
- The machine may only be operated by persons over the age of 18 years, and who have read and understood these operating instructions.
- Wear protective equipment (safety goggles/mask, gloves, safety shoes) to protect yourself from possible injury.
- Never try to split logs containing nails, wire or other similar objects.
- Already split wood and wood chips create a dangerous working area. The operator may stumble, slip or fall. Always keep the working area neat and tidy.
- Never place the hands on or near any moving parts of the machine when it is switched on. Maintain a safe distance from the log, the ram and the wedge in order to protect your hands from injury.
- Split only timber which corresponds to the maximal length to be worked with.

### What type of logs can I split?

#### Size of logs

Length: max. 520 mm

Diameter: 50 – 250 mm

The log diameter is a recommended guideline figure, because:

- thin logs can be difficult to split if they contain knots or if the fibres are too strong.
- logs with a diameter of over 250 mm can be split if the fibres are smooth and open.

Do not try to split green logs. Dry logs are much easier to split, and do not cause jams as often as green (damp) wood.

### Operation

#### Two-hand operation

1. Press the operating pushbutton on the electric motor. Wait a few moments until the motor has reached its operating revolutions and the required pressure has been built up in the hydraulic pump – Fig. 3.
2. Press the operating lever down simultaneously – Fig. 3.  
➔ The log ram pushes the log against the splitting wedge, and the log will be split.
3. Release the operating lever as well as the operating pushbutton. The log ram will now return to its original starting position – Fig. 4.

**Fig. 3****Fig. 4**

### **Special instructions for splitting logs:**

#### ■ **Preparations:**

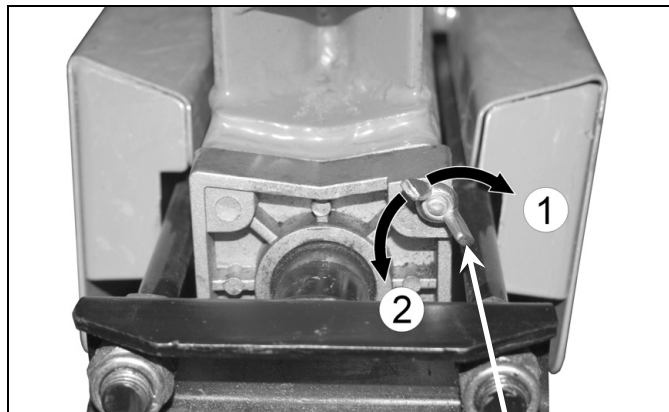
The logs to be split should be cut to the maximum dimensions (520 mm long, Ø 50 – 250 mm). Ensure also that the logs are cut straight and square.

Place the log properly on the log splitter, so as not to cause any risk of stumbling or falling to the operator.

#### **Bleeding**

Open the bleed screw 3 – 4 complete turns – Fig. 5.

Close the bleed screw again when you are finished splitting logs.

**Fig. 5****Bleed screw**

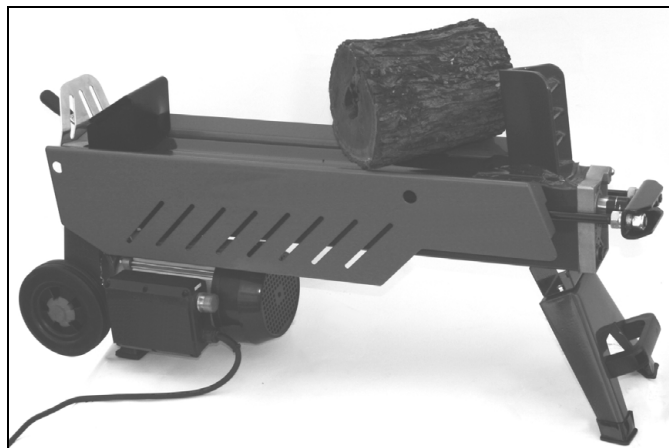
- ① tighten
- ② open (bleeding)

#### ■ **Splitting logs:**

- Always place the logs lengthwise and flat on the main frame of the log splitter. The log must be enclosed by the log guide plates. Fig. 6

**Fig. 6**

- Never place the log on the frame at an angle. Fig. 7

**Fig. 7**

- Always ensure that the splitting wedge and the log ram contact the ends of the log at right-angles.
- Never try to split two logs at once.
- Never try to remove or replace the log during the splitting process.

**i** Never try to force the splitting of the log by maintaining the pressure for several seconds. This can lead to damage to the machine.

Reposition the log on the main frame and repeat the splitting process, or put the log to one side.

### How to release a jammed log?

1. Loose the operating lever as well as the operating pushbutton that the log ram can go back.
1. Place a triangular wooden chock under the log, then move the log ram forward so that it pushes the chock under the jammed log.
2. If the log is not released, keep repeating this procedure, using larger chocks, until the log is released.

**!** Never use a hammer to release a jammed log, and keep your hands away from the log.

Do **not** enlist the aid of a second person - this is a one-man job.

Do not try to release the log by using a hammer, since this may break the motor block.

#### ■ Finishing work:

- Attend to that the log ram has gone back to its basic position.
- Then remove the plug from the power socket.
- Close the bleed screw. Fig. 5
- Follow the care and maintenance instructions.

## Care and maintenance



Remove the plug from the power socket before starting any maintenance or cleaning work.

**!** Wear protective gloves in order to avoid injury to the hands.

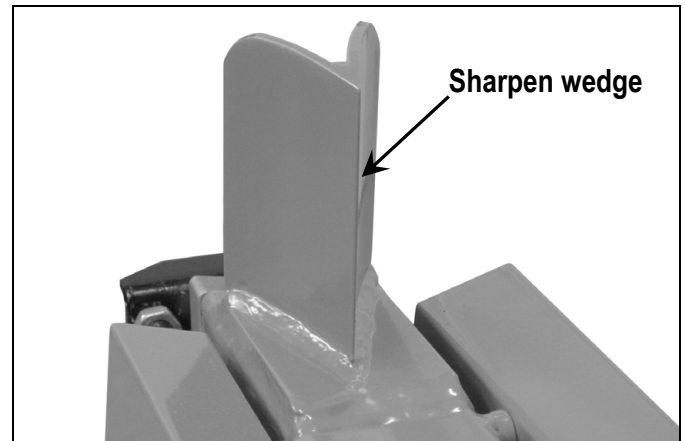
**i** Observe the following in order to keep the log splitter in good working order:

- Clean the machine thoroughly after you have finished using it.
- Remove any resin remains on the machine.
- Oil the piston rod (Fig. 1) regularly with an environmentally friendly spray oil.
- Check the oil level and change the oil as necessary.

### Sharpening the splitting wedge

After extended periods of use, or if the splitting performance is reduced, sharpen the splitting wedge with a file (and remove any burrs). Fig. 8

**Fig. 8**



### How do I check the oil level?

1. The log ram must be in its starting position.
2. Stand the log splitter on end, with the filler opening at the top. Fig 9



**A second person will be required to up-end and hold the log splitter.**

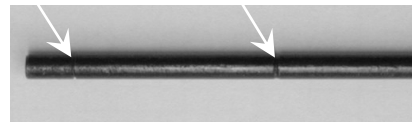
3. Unscrew the dipstick – Fig. 10. Do not drop or lose the oil seal when removing the dipstick.
4. Clean the dipstick and the oil seal.
5. Replace the dipstick fully into the oil reservoir.
6. Now remove the dipstick again, and read off the oil level.



If the oil level is between the two marking on the dipstick, there is sufficient oil in the reservoir.

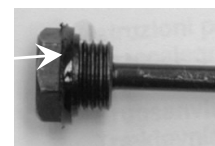
If the oil level is below the lower marking, more oil should be added with the aid of a clean funnel.

lower marking      upper marking



7. Check the oil seal and replace it if it is damaged in any way.

Oil seal



8. Replace the dipstick and screw it firmly into place. Caution! Do not tighten the screw too tightly, since this may damage the oil seal or the thread in the cylinder cover.

**Fig. 9**



2. Place a container under the log splitter to catch the old oil. The container should have a capacity of at least 4 litres.
3. Unscrew the dipstick. Do not drop or lose the oil seal when removing the dipstick.
4. Now tip the machine to empty the oil into the container.
5. Stand the log splitter on end, with the filler opening at the top. Fig 9.

**⚠ A second person will be required to up-end and hold the log splitter.**

6. Pour in the new hydraulic oil (3.2 litres) using a clean funnel.
7. Clean the dipstick and the oil seal.
8. Check the oil seal and replace it if it is damaged in any way.
9. Replace the dipstick and screw it firmly into place. Caution! Do not tighten the screw too tightly, since this may damage the oil seal or the thread in the cylinder cover.

**Dispose of the old oil properly (local oil disposal point). The old oil must not be poured into the ground or drainage system, or mixed with other waste.**

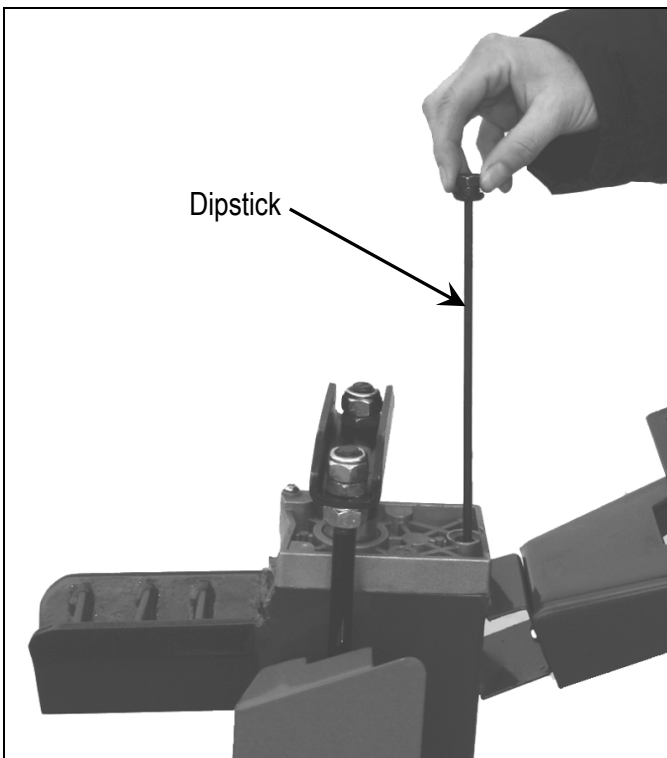
### **ⓘ Hydraulic oil**

We recommend the following hydraulic oils for the hydraulic cylinder:

- Shell Tellus T 22
- Aral Vitam Gf 22
- BP Energol HLP 22
- Mobil DTE 11
- or equivalent

**Do not use any other types of oil. The use of any other type of oil will adversely affect the operation of the hydraulic cylinder.**

**Fig. 10**



### **When should I change the oil?**

The first oil change should be carried out after 50 operating hours, and then every 250 operating hours.

### **Changing the oil:**

1. The log ram must be in its starting position.

## **Guarantee**

Please observe the enclosed terms of guarantee.



## Possible problems

Problem	possible cause	remedy
Logs are not being split properly (insufficient splitting performance)	⇒ The log is not positioned correctly ⇒ The log exceeds the maximum dimensions or the wood is too hard for the performance of the machine ⇒ The splitting wedge is not working properly ⇒ Oil leak  ⇒ Hydraulic pressure too low  ⇒ Incorrect connecting lead (longer than 10 m or too small cable cross-section)	⇒ Reposition the log correctly ⇒ Cut the log to the required dimensions  ⇒ Sharpen the splitting wedge, and check for any burrs or notches ⇒ Place a sheet of cardboard under the log splitter in order to locate the leak. To correct the problem, refer to the manufacturer. ⇒ Check the oil level and add more oil if necessary. If the problem cannot be rectified, refer to the manufacturer. ⇒ Use the correct connecting lead
Log ram travels out jerkily or under heavy vibration	⇒ Air in the circuit	⇒ Open the bleed screw ⇒ Check the oil level and add more oil if necessary. If the problem cannot be rectified, refer to the manufacturer.
Log ram will not move out	⇒ Hydraulic pump defective	⇒ To correct the problem, refer to the manufacturer.
Motor will not start	⇒ No electrical power ⇒ Connection cable defective ⇒ Electric motor defective	⇒ Check the fuse (16 A). ⇒ Replace the connection cable or have it checked by an electrician. ⇒ To correct the problem, refer to the manufacturer.
Oil leak at the dipstick	⇒ Oil seal at the dipstick not sealing	⇒ Replace the oil seal.

## Technical data

Name	Powersplit 6t
Model	RLT6A
Year of construction	see last page
Splitting force	60 kN (6 t)
Log length	520 mm
Log diameter	50 – 300 mm
Stroke	520
Electric motor performance	P = 1800 W S3 (8 min/2 min)
Power supply	230 V ~ 50 Hz
Revolutions	2820 rpm