

# Operating and Maintenance Instructions

Keep for future reference



## SE400 Log Splitter

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# Safety

**OXDALE PRODUCTS REQUIRES THAT ANYONE OPERATING OR MAINTAINING THE LOG SPLITTER SHALL READ AND UNDERSTAND ALL SAFETY, OPERATION AND MAINTENANCE DATA CONTAINED IN THIS USER MANUAL BEFORE USING THE LOG SPLITTER.**

The log splitter is powered by a Honda Engine. A copy of the Honda owner's manual should accompany this instruction manual. Please contact us if this is missing. Hydraulic action provides the force to drive a splitting wedge into a log. Never operate the log splitter if unauthorized persons are in the area, especially small children. Hazards associated with log splitting may be pinch points, splinters, eye injury, and entanglement . It is for **SINGLE PERSON USE ONLY**.

**You are responsible for the safe operation and maintenance of the log splitter. The most important safety device on the equipment is a safe operator.**

- Never put hands or fingers between wedge and log to be split or near moving parts. Always stop the machine before cleaning it or making adjustments.
- The operator should wear suitable PPE including eye protection, gloves, ear protection and safety boots. Close fitting clothing should be worn to reduce risk of entanglement. The safety decals and other labels on the machine are shown on the following page.
- Never stand either side of the log splitter while operating. Logs can sometimes split apart violently eg due to knots. Stand in front of the machine to minimize risk from falling debris.
- Never hold top of log while setting in place or splitting. Never split two logs on top of each other.
- The log splitter is very powerful, but some hard or wet wood can be difficult to split. Do not force the wedge as this could cause injury to yourself and damage to the log splitter.
- Never let children operate machinery. Do not leave machine unattended when running.
- Both ends of each log should be cut as square as possible to help prevent log from riding out of splitter. This is also aided by the three holes in the log platform having raised edges to reduce the risk of slipping.
- Always choose a working area free from obstructions and then keep the working area free from obstructions such as logs and split wood.
- Machine is for **single person operation only using both hands on the operating lever**.
- Operate splitter on solid level ground. Always ensure parking brake is engaged on tractor.
- The log splitter is designed only for splitting wood. Using it for any other purpose may damage it and be dangerous to the user and others.
- Ensure that the machine is secured using wheel blocks if necessary during use, and stored safely when not in use in a dry place.
- Ensure that Honda engine manual and its safety decals are also referred to.

## Safety labels & decals

The SE400 log splitter should have the following labels attached. If any safety decals are missing or illegible they should be immediately replaced.

- The following safety decals:



- The following warning notices:

### **WARNING!**

**"Danger! Keep clear of moving parts!"**

**"To be operated by one person only!"**

**"Wear hearing protection!"**

**"Read instruction manual before use!"**

- Other information:

Oxdale's name and address

Year of construction

Machinery type

Mass of machine

Serial number

Maximum hydraulic oil operating pressure

# Quick Guide

## Before first use

Before the log splitter can be used for the first time.

- Fill the engine with engine oil.
- Fill the engine with petrol.
- Fill the hydraulic oil tank.
- Ram collar to be greased.

## Pre-Operation Checklist

It is important for both personal safety and maintaining the good mechanical condition of the log splitter that this checklist is followed:

- Grease slider every 10 hours of operation and pre / post season.
- Check that all hydraulic fittings & connections are tight and in good condition.
- Check for damaged, worn, missing parts and replace if necessary.
- Replace missing or illegible safety decals.

## Operating Instructions

- Position the log splitter on solid level ground when operating.
- Start the engine and adjust the throttle to suit the work being done (check the engine manual for details).
- Using both hands lift the handle to lower the ram, and lower the handle to raise the ram.
- Operate ram to lift wedge above height of log to be split.
- Position the centre of the log under the wedge. Move the wedge until contact is made with the log.
- Keep two hands on control levers while splitting log. The speed can be controlled by how much pressure you put on the control valve.
- Stop splitting if log starts to go sideways and reposition per above instructions.
- Should the wedge lodge or become stuck in the log, return wedge to fully open position and gently rock log free before continuing.

## Post Operating checks & maintenance Instructions

- Wipe off your log splitter with a damp cloth periodically to keep it free from debris.
- It is recommended that you store your splitter in a dry place when not in use.
- The splitting wedge may need to be sharpened periodically, just using a file.

## Storage and Transportation

- The SE400 should be stored in the upright vertical position only.
- Store in a dry location
- Store in a safe location where the machine will not get knocked over
- The SE400 should be transported in a vertical position. It should be strapped securely.

# In-depth instructions.

## Before first use.

### Fill the engine with engine oil and petrol

The log splitter has to be supplied / shipped without any oil installed. Before the engine can be started for the first time it needs to be filled with engine oil and petrol. Please see the engine manual for details on filling the oil and petrol.

**Petrol Filler Cap**

**Oil Filler Cap**



### Filling tank with hydraulic oil

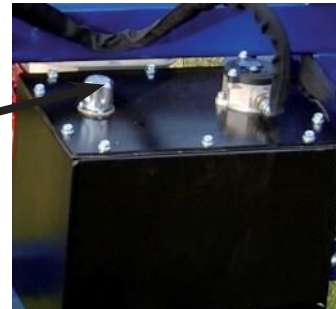
The hydraulic tank holds approximately 14 litres of hydraulic oil, we would recommend using ISO 46 type oil. The tank is filled through the filler cap on top of the unit. Pour the oil in until you have filled the tank as indicated on the level gauge.

Please note that once the unit has been run for the first time and the pump filter and pipe work filled you will need to top up the tank.



**Filler Cap**

**Level Gauge**



## Greasing

The ram collar needs to be greased where it slides down the guide; this will help to reduce the friction and help the unit run more smoothly. This needs to be carried out every 10 hours or alternatively at the start of each day.

# Operating Instructions

The log splitter is designed for splitting logs only AND IS FOR SINGLE PERSON USE. It can handle logs no bigger than 450mm high and having a diameter no bigger than 900mm and no smaller than 75mm diameter. Only persons competent to do so and having read in full this manual should use this log splitter. Before using the log splitter for the first time each day carry out a visual inspection taking note of any damage and leakages and ensure that they are fully repaired before using.

Position the unit on solid, and, as far as possible, level ground when operating the log splitter. Use wheel blocks if necessary to prevent movement of the machine. At all times when the ram is being both extended and retracted both hands need to be kept on the handle. Lifting the handle will extend the ram and lowering the handle will retract the ram.



With both hands on the handle lift to lower the wedge.

The handle will return itself to the neutral position when not lifted or lowered, in this position there will be no movement of the wedge.





Lowering the handle will lift the wedge.

Pick your log to be split; the log should have been cut square at both ends. This is very important as it will reduce the chance that the log will slip. Position the log under the wedge with the point of the wedge in the centre of the log; place both hands on the handle and lift to lower the wedge into the log. Stop lowering the wedge if the log starts to go sideways and reposition. If the wedge gets stuck return the wedge to the fully open position and rock the log free before continuing. When splitting wood always stand in front of the unit and not to the side as logs can split with some force and be thrown off the unit to the sides. Always keep other people and pets/animals out of this area when splitting logs.

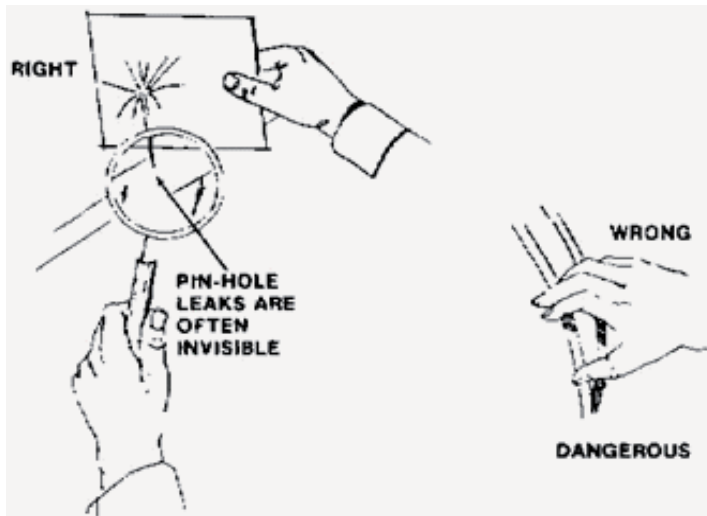


# Post Operating Checks & Maintenance Instructions

Switch off the machine before any cleaning or adjustment of the machine takes place. At the end of each day's work the unit should be cleaned. The removal of wood chips etc. from the unit is advisable as well as removing contaminated grease for the wedge collar. Sharpen the wedge as and when required; this can be done with a file. Check for any loose bolts or other damage. at regular intervals. If the log splitter is going to be stored then this should be in a dry location in the upright vertical position.

## Hydraulic System.

Periodically check the hydraulic oil level with the gauge on the side of the unit, top up if required.

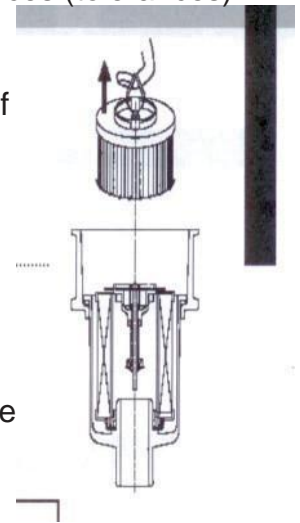


Check also for oil leaks, worn hoses and loose fittings; please note that the pressure within the hydraulic system can exceed 2000 pounds per square inch (psi). Reinforced hoses develop pin hole leaks and hydraulic connections can vibrate loose. Hydraulic leaks may be hard to see. Never check for these leaks with your hand. The high pressure can inject oil droplets under your skin. Oil injected under your skin is a medical emergency and will require immediate medical care. When checking hoses and fittings these can become very hot from heavy use. Place your hand near the connection to sense for heat before

touching the connection. If hot, allow the hydraulic system to cool down before touching the heated connections. Hydraulic pumps and control valves operate with minute clearances (tolerances). Grit, grime, and dirt pushed through these openings can eventually wear the surfaces and damage the system. Clean hydraulic oil must be used. The fill area and connections must be kept clean as well. Dirt is the greatest source of hydraulic system damage.

Filter element replacement; remove the top cover on the filter body and using the handle on top of the filter remove from the filter body. Replacement is a reversal of removal.

Looking after the hydraulic oil is very important; keeping the oil free from contamination will reduce the need to change the oil. If you need to change the oil you can drain the oil through the feed pipe to the pump. Remove the pipe from the pump and drain into a suitable container, if you are replacing the oil then replacement of the filter element is also required. Replace the pipe and filter before refilling the tank. Check the oil level once it has been run and top up as required.



## Greasing.

Keep the collar guide of the unit well-greased, this will help the log splitter run more smoothly.

Grease the collar guide



## Warranty information

Warranty claims which arise as a result of incorrect operation, insufficient maintenance or the use of non-approved consumables, e.g. lubricants, hydraulic oils will not be accepted by the manufacturer.

Only original Oxdale parts may be used. When ordering replacement parts, please provide the model name and number. Pressure adjustments to the valves must only be carried out by Oxdale authorized dealers.

No liability is accepted for damage caused by Oxdale products in so far as they are caused by incorrect repairs or the non-use of original Oxdale replacement parts or in so far as repairs have not been carried out by Oxdale or a pre-authorized specialist, the same applies to auxiliary parts and accessories.

All warranty claims are on a return to manufacturer basis.

Pressure adjustments to the valves must only be carried out by Oxdale authorized dealers.

All Oxdale products have a full 12 months warranty, please ensure that you fill in the warranty page and return immediately.

## Technical Specifications – SE400

<b>Log Splitter</b>		<b>Log Splitter Ram</b>	Model number
Weight	101kg	Max pressure	4780 psi / 330 Bar
		Ram Bore diameter	60mm
		Ram Stroke	400mm
		Ram rod diameter	40mm
<b>Engine</b>	Honda GX200	<b>Pump</b>	Saturn Group 2 E-10-N
HP	5.5 at 3600 rpm	Input speed	3000 rpm
Fuel Consumption	1.9 L/hr	Torque	33 n/m
Noise Level	92 db(A)	Displacement	5 cc/rev
		Flow	15 l/min
		Max continuous pressure	250 bar / 3625 psi
		Max peak pressure	290 bar / 4200 psi
<b>Filter</b>	MP Filtri MPF0301AG-1P25NB	<b>Spool Block</b>	MB2
Type	Return	Max continuous pressure	250 bar / 3600 psi
Filter Code	0301P25NB	Max peak pressure	320 bar / 4600 psi
		Max back pressure on port T	30 bar / 430 psi
		Port marked P	Pressure Line
		Port marked T	Exhaust Line
		Relief valve setting	220 bar / 3150 psi

## Contact details.

Oxdale Products can be contacted using the details below; these details can also be used for ordering spare parts.

Oxdale Products  
Units 20-21,  
Foxwood Road,  
Off Sheepbridge  
Lane,  
Chesterfield,  
S41 9RF

Tel:-01246 529020

Fax:-01246 812722

Mobile:-07813 111885

[Email:- sales@oxdaleproducts.co.uk](mailto:sales@oxdaleproducts.co.uk)

Our web site can be viewed at [www.oxdaleproducts.co.uk](http://www.oxdaleproducts.co.uk)

# Warranty Registration form

Name .....

Address .....

.....

.....

Post Code .....

Tel No .....

Mob .....

Email .....

Serial No .....

Model No .....SE400.....

Date of Purchase.....

**Please ensure that all details are correct and return to**

Oxdale Products

Units 20-21,

Foxwood Road,

Off

Sheepbridge

Lane,

Chesterfield,

S41 9RF



**B5**

## **DECLARATION OF CONFORMITY FOR CE MARKING**

**Company contact details:**

Oxdale Products Ltd (formerly CS Trading), Stanfree Farm,  
Low Rd, Clowne, Derbyshire. S43 4LQ. UK

**Registered address:**

Oxcroft Stables, 30 Oxcroft Estate, Bolsover, Derbyshire. S44 6AU. UK

**Telephone:**

01246 529020

07813 111885

**Technical file compiled by:**

Brian Thurman. Cobweb Cottage, 43 Main Road, Higham, Derbyshire. DE55 6EH. UK

**Oxdale Products Ltd declares that the product:**

Oxdale SE400 log splitter

**Conforms with the following EU Directives:**

Directive 2006/42/EC Machinery

**And conforms with the following EU Harmonised Standards:**

EN 609-1:1999

**Name of signatory:** Chris Butcher

**Position of signatory:** Director

**Signed:** C. Butcher

**Dated:**

20/1/13

**Place:**

Stanfree