



Using the Diesel Engine

1. Wear your protective equipment including ear defenders and safety boots.
2. Remember the engine and exhaust get hot and remain hot for some time after stopping. Keep your hands, and anything that burns, well clear.
3. Stop work if someone approaches you.
4. Stop the engine before you make any adjustments to your equipment.
5. If your equipment starts to labour and slow down, do not force it so hard.
6. Watch out for signs that vibration from your equipment may be affecting your hands. If your fingers start to tingle or feel numb, take a short break from using the machine. Exercise your fingers to encourage blood circulation.
7. To help prevent vibration affecting your hands, operate the machine for shorter periods. Keep your hands warm – wearing gloves may help to do this.
8. Stop the engine if leaving the machine unattended.
9. Always return the equipment to the hire company in a clean condition.
10. If your equipment does not work properly do not attempt to repair it. Contact the hire company.

Please keep this leaflet safely as it may be required for future reference



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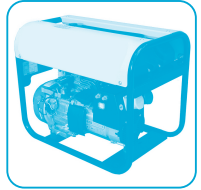
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Diesel Engines

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read all of this leaflet BEFORE using the Diesel Engine



1. Plan the use of the Diesel Engine so that it can always be used safely.
2. Diesel is highly flammable. Take care not to cause a fire or explosion.
3. Diesel engines are designed to supply power for a variety of medium sized tools and equipment from generators and compressors to large plants such as dumpers and excavators.
4. The action of a diesel engine can cause injury or damage if the machine is not used in a careful and controlled way.
5. If you have not used diesel-powered equipment before, familiarise yourself with the machine on some straightforward work before you start on the main task.
6. You will need to wear various items of personal protective equipment, check the safety instruction leaflet issued for the equipment you have hired to find what you need.
7. This machine must not be used by minors, or by anyone under the influence of drugs or alcohol.
8. This diesel engine is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.



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- ### STARTING THE ENGINE
1. This section describes the starting procedure for most diesel engines.
 2. If the hire company has given you special instructions, follow them. Otherwise, follow the instructions given below.
 3. Check the oil and fuel levels before you try to start the engine.
 4. Move the STOP control to the RUN position.
 5. Check that the throttle lever is in the IDLE position.
 6. Do not wear gloves when you start the engine. Also, make sure that you have no loose clothing or flapping sleeves that could get caught.
 7. Fit the starting handle to the shaft, clockwise that the ratchet and check by turning it anti-clockwise that the ratchet mechanism works. Check also that the starting handle is correctly fitted.
 8. Grasp the starting handle firmly in one hand – but do not wrap your thumb around the handle, keep it on the same side as your fingers – this is very important. Your thumb could be broken if you wrap it around the handle, and the engine kicks back.
 9. Lower the decompression lever smoothly. The engine should fire up. If it doesn't, go through the steps again from instruction 7 above.
 10. If the engine is now running, slide the handle off the shaft.
 11. If you let go of the handle when the engine fires up, do not try to grab it. Stop the engine using the stop control. Then start the engine again.
 12. Never stop the engine using the decompression lever. This may damage the engine and will be regarded as misuse by the hire company. Only use the proper RUN/STOP control.
- ### Before Starting Work...
1. Do not use this diesel engine where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
 2. Using this equipment indoors or in confined spaces could cause fatal carbon monoxide poisoning. Never use it in other situations if its suitability and the ventilation required has been fully assessed. Mechanical extraction ventilation will almost always be required.
 3. Make sure that the area is clear and safe and that no-one is near to you or could distract you.
 4. Protect other people from the noise, and possible debris, and dust. Warn hands warm while you are working.
 5. Make sure that you understand all of the controls. Before you start the machine, you must know how to stop it.
 6. Vibration from using this equipment may be hazardous. You may need to warm your hands up before you start work, and wear gloves to keep your hands warm while you are working.
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- ### OPERATORS
1. You must wear the relevant items of personal protective equipment (ppe) appropriate to the type of machine you are using and the environment you are working in.
 2. Anybody who is working near to you will also need to wear appropriate personal protective equipment.
 3. Check your machine, engine and all equipment. Do not use anything that is not safe.
 4. Clean the filler cap and the area around it to prevent dirt falling into the fuel tank.
 5. Use a funnel and clean diesel when refuelling. Do not spill any fuel on people or the machine.
 6. Wipe any fuel off the machine. Dispose of fuel soaked cloth carefully.
- ### REFUELLING
1. No smoking.
 2. Stop the engine and let it cool down.
 3. If possible move the machine away from your work area.
 4. Clean the filler cap and the area around it to prevent dirt falling into the fuel tank.
 5. Use a funnel and clean diesel when refuelling. Do not spill any fuel on people or the machine.
 6. Wipe any fuel off the machine. Dispose of fuel soaked cloth carefully.