LEARNER GUIDE



TICKET



Self-propelled Compactor

Training support material for:

RIIMPO316E Conduct self-propelled compactor operations

Produced by:



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Introduction to Self-propelled Compactor



Introduction to self-propelled compactor

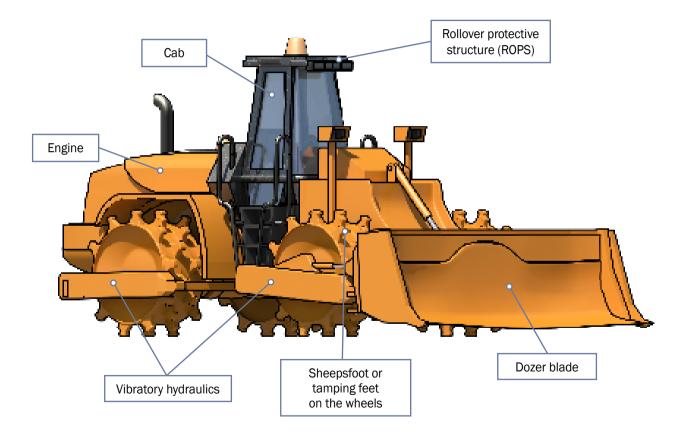
A self-propelled compactor is a self-propelled, tamping foot drum, wheeled machine, used to compact a variety of types of construction materials. It can operate at relatively high speeds and may have a dozer blade mounted on the front-end of the machine allowing for dozing, filling and compacting versatility. The tamping feet on the wheels of the machine may vary in size, shape and depth.

What industries do you use a self-propelled compactor in?

Civil construction



An example of a self-propelled compactor



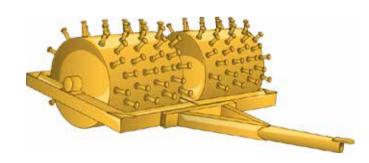
Self-propelled compactors

Four wheel (steel drum) articulated self-propelled compactor with dozer blade



Towed compactors

Single sheepsfoot drum compactor

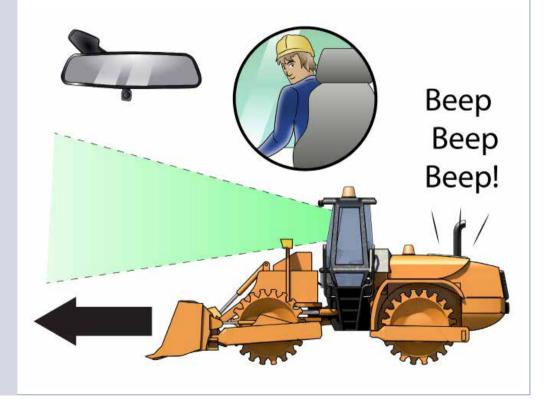


Operate self-propelled compactor



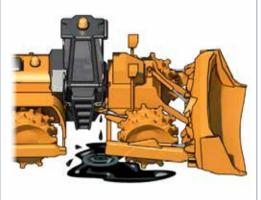
What do you do before moving a self-propelled compactor which has been stationary?

- 1. Sound the horn once.
- 2. Check the way is clear and there is no one near the self-propelled compactor.
- 3. Make sure the reversing alarm has started before you move in reverse.



What pre-operational checks do you do before using the self-propelled compactor?

Look for leaks under the machine



Check drum condition and nuts



Check hydraulic systems (including attachments)



Check the fuel gauge to make sure the self-propelled compactor has enough fuel

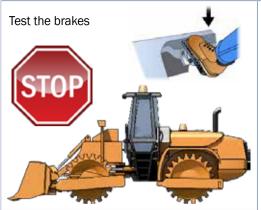


Check power steering fluid



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What kinds of tests should you do before using the self-propelled compactor?



Test the self-propelled compactor's functions. For example, the vibrator. (Do this **away** from under ground services).



Test the controls in a safe place



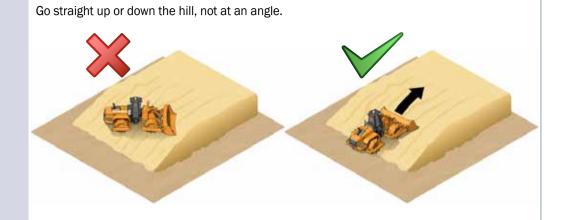
Test the steering in a safe place



Drive the self-propelled compactor a short distance to make sure it's okay



Which way should you travel when driving on sloping ground?

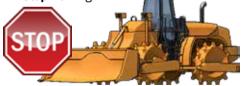


QUESTION 56

A hydraulic hose starts to leak fluid.

What do you do?





2. **Remove** the key.



3. **Tag out** the machine.



4. **Report** to your supervisor. Have the hose replaced.



What is the danger of driving a self-propelled compactor sideways along a slope or hill?



You need to travel over a rocky or bumpy surface.

What speed do you drive at?

Drive slowly to keep the self-propelled compactor stable.



QUESTION 59

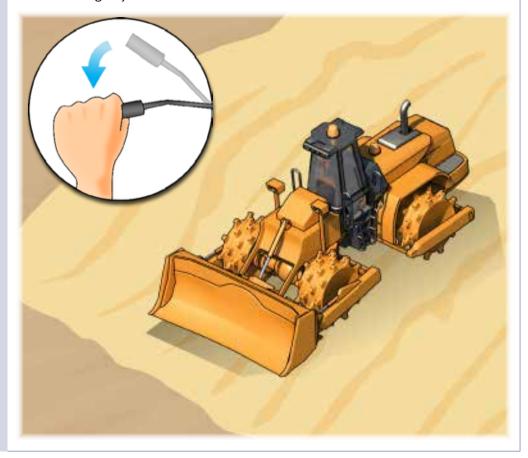
What is the risk of changing gear while you're driving the self-propelled compactor up a slope?

If you miss the gear the brakes may not be able to hold the self-propelled compactor. You may lose control.



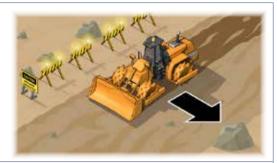
Which gear do you use when travelling down a steep slope?

Use the lowest gear you can.



How do you compact a surface using a self-propelled compactor?

 Start from the outer or lower edge and move towards the centre of the surface you want to compact



• Do a forward and reverse pass and overlap on each pass



- Turn the self-propelled compactor around
- · Turn the vibrator off
- · Go back in the opposite direction
- When the self-propelled compactor starts to walk out, the surface is properly compacted.



How does a static self-propelled compactor compact soil and material?

The static self-propelled compactor uses its weight and the rolling action of the drums. 1,900 kg