



Hazard & Risk Assessment - Plant Operation

Equipment Category:

EARTHMOVING

Equipment Type:

LOADERS

Generic Description or
Specific Make/Model:

Skid Steer/Multi Terrain Loaders

Type:

Other Details
(As Applic.):

Manuf. Make & Model:

Plant No.:

'Last Service' Details:

Note:

Complete this section **ONLY** if a customer wants an additional "Office Copy" of this document i.e. requires a record of the 'Last Service' details to keep on file.

You **DO NOT** need to complete this section when this document is inserted in the **Coates Plant Logbook** on the machine – this is because details of the **Last Service** are usually recorded in 'Part 3' of the **Coates Plant Logbook** and also on the **Service/Safety Check Sticker** on the machine.

Last Pre-Hire Check or Safety Check:

| Date: | Hours: | Type: |
|-------|--------|-------|
| | | |

Last Scheduled Service:

| Date: | Hours: | Type: |
|-------|--------|-------|
| | | |

Operator Requirements:

Operator must be trained and competent to use this equipment safely.

Purpose For Which This Equipment Is Designed:

For digging, dozing, dumping, levelling, loading, clearing and other site work.

Generic Hazards & Risks - For This Type of Equipment:

The hazards and risks detailed here are generic for this type of equipment and are intended to give principal contractors and users a quick summary of the hazards and risks involved before putting it to use. For details of any additional model specific hazards and user information, reference should be made to the operating instructions/other information supplied with the equipment. In addition to this, instruction and demonstration is also available from our trained staff.

Hazards & Risks:

Commissioning, Installation, Erection & Maintenance:

Hydraulics can lower without warning and cause serious crushing/shearing injuries to body/limbs or death.

Suggested Control Measures:

- (i) Never work under raised hydraulics unless they are fully supported by a correctly positioned 'approved support device'.
- (ii) If the work to be conducted under the raised hydraulics cannot be fully supported by an 'approved support device', an assessment (e.g. JSA) must be undertaken to identify the risks and the specified control measures (to conduct the work safely) **MUST** be implemented prior to the work being conducted.

Crushing (Squashing):

Crushing and shearing due to parts of plant closing or collapsing

- (i) In the event of electric or motive power loss always use the Emergency Lowering System to lower the lift arms and attachments.
- (ii) Always refer to the Original Manufacturers Operation & Maintenance Manual before using the Lift Arm Emergency Lowering System.
- (iii) Ensure all personnel are clear of the lift arms and attachments before operating the Emergency Lowering System.
- (iv) If the Emergency Lowering System is not operable from the cabin, the Operator **MUST** always use the Emergency Exit Window. Never exit the cabin under raised lift arms unless they are fully supported by a correctly positioned 'approved support device' e.g. Manufacturers Lift Arm Brace.

Being trapped under or between the plant and materials, or fixed structures, especially when reversing.

- (i) Avoid congested work areas.
- (ii) Clearly define and/or barricade off work area. Keep personnel clear.
- (iii) Keep lift arms as low as possible. Do not travel or turn with the lift arms up. Carry loads low to the ground.
- (iv) Never operate near an obstruction that can enter the operator "cab" area. The machine could drive or tip forward causing the obstruction to trap operator.

Picture
(Typical Machines):



Hazards & Risks:

Crushing (Squashing): cont'd

Plant tipping or rolling over or operator being ejected.

Suggested Control Measures:

- (i) Specify machine fitted with ROPS, always use seat bar and fasten seat belt snugly.
- (ii) Only use buckets/attachments provided by Coates Hire and always ensure attachments are correctly engaged per Manufacturers instructions before operating. Non approved buckets/attachments may cause the machine to become unstable and tip over.
- (iii) Do not exceed the rated operating capacity of the Loader as excessive loads can cause the plant to tip or roll over.
Note: Rated Loads should only be used as a guide. Attachments, uneven or soft ground conditions can have an effect on the capacity of the machine.
- (iv) Always keep feet on pedals when operating plant.
- (v) Operate on firm level ground within the design limitations of the Loader and take additional care when operating on rough or uneven ground.
- (vi) Constantly scrutinise edges of formations for possible "soft spots" and take extreme care if it is necessary to drive near the edges of formations especially where there is a drop off. Always question whether "what you are seeing is what you are getting" e.g. is the ground you are about to drive over firm and capable of supporting the Loader, or is it soft, crumbling and/or supported only by undergrowth?
- (vii) When going up or down an incline, keep the Loader bucket/attachment low. Where possible go directly up or down a slope, not across a slope.
- (viii) When working on sloping ground, turn machine slowly, keep the Loader bucket/attachment as low as possible and do not swing the Loader bucket/attachment down the slope.
- (ix) Operator should be aware, take care, and drive the machine at slow speed when nearing the end of an upward slope, or about to go over the point of balance and down a downward slope.
- (x) If the Loader begins to slip sideways down an incline, immediately remove the load and turn the machine downhill.
- (xi) When back filling, don't get too close to the cut as the weight of the machine may cause a cave in.

Being thrown off or under the equipment.

Never carry passengers.

Being crushed by material falling off plant.

- (i) Specify machine fitted with FOPS. Never exceed rated operating capacity of plant.
- (ii) Never lift a load over a person.
- (iii) Never dump over an obstruction that can enter the operator cab. The machine could tip forward and cause injury or death.
- (iv) Always carry loads low to the ground and do not overload bucket.
- (v) Know rated handling capacity of the type of material to be moved.

Driving into bystanders.

Clearly define work area. Keep personnel clear.

Driving into overhead objects.

Be alert. Look up as well as down.



Hazards & Risks:

Suggested Control Measures:

Equipment Controls & Operation:

Unexpected movement of plant.

- (i) Keep floor of cab clean. Loose items such as cans, bottles or other items can become trapped under controls and prevent correct operation of the Loader.
- (ii) Do not wear loose fitting clothing as they can catch on control levers.

Equip Not In Use:

Unexpected movement of plant.

- (i) Park loader on firm level ground.
- (ii) Never leave the machine without first closing the bucket, then lowering the lift arms all the way down and put the edge of the bucket flat to the ground.
- (iii) Pull the throttle all the way backward, stop the engine and engage parking brake.
- (iv) Lift the seat bar and make sure the foot pedals are locked.
- (v) Never leave the Loader unattended with the engine running.
- (vi) Do not leave the Loader fully elevated and unattended.
- (vii) If machine is immobilised on an incline, block tyres/tracks.

Unauthorised use.

Remove ignition key and switch battery isolator off (if fitted) and lock all doors when leaving the Loader unattended.

High Temperature or Fire:

Refuelling: When refuelling, sparks, naked flames or hot engine can ignite fuel.

Operator to stop engine before refuelling and allow it to cool. Prior to filling fuel tank, ground fuel filler nozzle against the machine to avoid a spark. Refuel in a well ventilated area. Ensure no naked flames in the area and mobile phone is turned off. DO NOT SMOKE, avoid spilling fuel, and collect any fuel run off.

Being injured or burnt from flying debris when using starter fluids.

- (i) Do not use ether or starting fluids on an engine with glow plugs (preheat systems) as these starting aids can explode and cause fire and injury.
- (ii) Do not use skid steer in or around explosive dust or gases. Electrical systems may have arcs or sparks and cause an explosion.

Coming into contact with hot parts.

Keep clear of engine and exhaust outlet.

Noise:

Exposure to noise.

Wear appropriate hearing protection if exposure to noise exceeds 85 dB(A).

PPE (Personal Protective Equip):

Eye or lung injuries possible if PPE not used.

Safety glasses and particle mask should be worn if working in dusty conditions.

Shearing (Cutting):

4 in 1 bucket shearing limbs.

- (i) Clearly define work area. Keep personnel clear.
- (ii) Keep lift arms as low a possible. Do not travel or turn with the lift arms up. Carry loads low to the ground.

Slipping, Tripping & Falling:

Slipping on hand holds, steps or floor.

- (i) Keep hand holds, steps and floor clean and clear of oil, grease, mud, rubbish and tools.
- (ii) Always use proper steps and hand holds when climbing onto, or alighting from machine.

Suffocation:

Use in a confined space can cause asphyxiation.

Operator/user responsible to use machine in a well ventilated area.

Picture
(Typical Machines):



Hazards & Risks:

UV Exposure:

Excessive exposure to sunlight while operating this equipment.

Suggested Control Measures:

Take precautions that reduce the exposure of skin to sunlight e.g. wear a hat, long pants, long sleeves and apply sunscreen to skin that is exposed to the sun.

Acknowledgements:

Hazard Information Sheets have been produced as an aid to workplace safety after an extensive review of the requirements of the 'National Standard for Plant' and its adoption in each state. It is a combination of information from OH&S authorities, manufacturers, suppliers, the industry and users, and has been set out in this format in response to industry requests for a 'quick reference' useful user-friendly document.

Disclaimer: In fulfillment of its statutory obligations, the Company has taken what it considers to be all reasonable precautions and exercised due diligence to ensure that it has provided all relevant information on the safe use of the plant. However, except as required by law and only to the extent so required, the Company does not make any representation, warranty or undertaking, express or implied, as to, or accept any responsibility or liability for, the accuracy or completeness of, or any errors in or omissions from, this Hazard Information Sheet.

Document Issue, Amendment & Review History:

Last Amended: 10th January 2020 **Amended By:** Ross Lugton, National Plant Maintenance & Compliance Officer, Corp. H.O.

Details of Amendment(s): Addition of Multi Terrain machines.

Last Reviewed: 10th January 2020 **Reviewed By:** Ross Lugton, National Plant Maintenance & Compliance Officer, Corp. H.O.

Details of Review(s): Changed to include Multi Terrain machines & additional suggested control measures.