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| **EQUIPMENT DESCRIPTION** | Excavator (Tracked) |  |
| **EQUIPMENT USED FOR** |  |
| **MAKE** |  |
| **MODEL** |  |
| **ASSESSED BY** |  |
| **DATE OF ASSESSMENT** |  |
|  |
| **CRITERIA** | **Y / N** | **L(I)** | **C(I)** | **R(I)** | **RECOMMENDED CONTROLS** | **L(R)** | **C(R)** | **R(R)** |
| 1. Can a person’s hair, clothing, gloves, necktie, jewellery, cleaning brush or rag become entangled with moving parts of the plant? |  |  |  |  |  |  |  |  |
| 2. Can anyone be crushed due to: |  |  |  |  |  |  |  |  |
| * material falling off the plant?
 |  |  |  |  |  |  |  |  |
| * uncontrolled or unexpected movement of the plant?
 |  |  |  |  |  |  |  |  |
| * lack of capacity for the plant to be slowed, stopped or immobilised?
 |  |  |  |  |  |  |  |  |
| * the plant tipping or rolling over?
 |  |  |  |  |  |  |  |  |
| * parts of the plant collapsing?
 |  |  |  |  |  |  |  |  |
| * coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?
 |  |  |  |  |  |  |  |  |
| * being thrown off or under plant?
 |  |  |  |  |  |  |  |  |
| * being trapped between the plant and materials or fixed structures?
 |  |  |  |  |  |  |  |  |
| * other factors not mentioned?
 |  |  |  |  |  |  |  |  |
| 3. Can anyone be stabbed or punctured due to: |  |  |  |  |  |  |  |  |
| * coming in contact with sharp or flying objects?
 |  |  |  |  |  |  |  |  |
| * coming in contact with moving parts during testing, inspection, operation, maintenance, cleaning or repair?
 |  |  |  |  |  |  |  |  |
| * the plant, parts of the plant or work pieces disintegrating?
 |  |  |  |  |  |  |  |  |
| * work pieces being ejected?
 |  |  |  |  |  |  |  |  |
| * the mobility of the plant?
 |  |  |  |  |  |  |  |  |
| * uncontrolled or unexpected movement of the plant?
 |  |  |  |  |  |  |  |  |
| * other factors not mentioned?
 |  |  |  |  |  |  |  |  |
| 4. Can anyone’s body parts be sheared between two parts of the plant, or between a part of the plant and a work piece or structure? |  |  |  |  |  |  |  |  |
| 5. Can anyone be struck by moving objects due to: |  |  |  |  |  |  |  |  |
| * uncontrolled or unexpected movement of the plant or material handled by the plant?
 |  |  |  |  |  |  |  |  |
| * the plant, parts of the plant or work pieces disintegrating?
 |  |  |  |  |  |  |  |  |
| * work pieces being ejected?
 |  |  |  |  |  |  |  |  |
| * mobility of the plant?
 |  |  |  |  |  |  |  |  |
| * other factors not mentioned?
 |  |  |  |  |  |  |  |  |
| 6. Can anyone come into contact with fluids under high pressure, due to plant failure or misuse of the plant? |  |  |  |  |  |  |  |  |
| 7. Can anyone be injured by electrical shock or burnt due to: |  |  |  |  |  |  |  |  |
| * the plant contacting live electrical conductors?
 |  |  |  |  |  |  |  |  |
| * the plant working in close proximity to electrical conductors?
 |  |  |  |  |  |  |  |  |
| * overload of electrical circuits?
 |  |  |  |  |  |  |  |  |
| * damaged or poorly maintained electrical leads and cables?
 |  |  |  |  |  |  |  |  |
| * damaged electrical switches?
 |  |  |  |  |  |  |  |  |
| * water near electrical equipment?
 |  |  |  |  |  |  |  |  |
| * lack of isolation procedures?
 |  |  |  |  |  |  |  |  |
| * other factors not mentioned?
 |  |  |  |  |  |  |  |  |
| 8. Can anyone be injured by explosion of gases, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant? |  |  |  |  |  |  |  |  |
| 9. Can anyone be injured due to: |  |  |  |  |  |  |  |  |
| * poorly designed seating?
 |  |  |  |  |  |  |  |  |
| * poorly designed operator controls?
 |  |  |  |  |  |  |  |  |
| * high forces?
 |  |  |  |  |  |  |  |  |
| * awkward body posture or the need for excessive effort?
 |  |  |  |  |  |  |  |  |
| * repetitive movements?
 |  |  |  |  |  |  |  |  |
| * vibration?
 |  |  |  |  |  |  |  |  |
| * other factors not mentioned?
 |  |  |  |  |  |  |  |  |
| Can anyone be injured due to unexpected start-up, unexpected over-run/over-speed (or similar malfunction) from: |  |  |  |  |  |  |  |  |
| * failure/disorder of the control system, for example a hydraulic system?
 |  |  |  |  |  |  |  |  |
| * restoration of energy supply after an interruption?
 |  |  |  |  |  |  |  |  |
| * external influences on electrical equipment?
 |  |  |  |  |  |  |  |  |
| * other environmental factors (gravity, wind, etc.)?
 |  |  |  |  |  |  |  |  |
| * errors in the software?
 |  |  |  |  |  |  |  |  |
| * errors made by the operator?
 |  |  |  |  |  |  |  |  |
| Can anyone be injured due to: |  |  |  |  |  |  |  |  |
| * noise?
 |  |  |  |  |  |  |  |  |
| * inadequate or poorly placed lighting?
 |  |  |  |  |  |  |  |  |
| * entry into any confined spaces of the plant?
 |  |  |  |  |  |  |  |  |
| * failure to select plant that is suitable for its intended use?
 |  |  |  |  |  |  |  |  |
| * contact with hot or cold parts of plant?
 |  |  |  |  |  |  |  |  |
| * exposure to hazardous chemicals, radiation or other emissions released by the plant?
 |  |  |  |  |  |  |  |  |
| * lack of operator competency?
 |  |  |  |  |  |  |  |  |
| * other factors not mentioned?
 |  |  |  |  |  |  |  |  |
| * restricted vision due to seating position?
 |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Risk Matrix** | **Consequences** |
| **Negligible (1)**Minimal injuries / no injuries | **Minor (2)**Minor injuries / first aid  | **Significant (3)**Moderate injuries / medical treatment  | **Severe (4)**Serious injuries / hospitalisation | **Catastrophic (5)**Death / permanent impairment |
| **Likelihood** | **Certain (5)**100% likely / almost 100% likely | Moderate (5) | High (10) | High (15) | Catastrophic (20) | Catastrophic (25) |
| **Likely (4)**Will probably happen / is likely to happen | Moderate (4) | Moderate (8) | High (12) | Catastrophic (16) | Catastrophic (20) |
| **Possible (3)**Could happen or plausible  | Low (3) | Moderate (6) | Moderate (9) | High (12) | High (15) |
| **Unlikely (2)**Improbable but could happen / not expected | Low (2) | Moderate (4) | Moderate (6) | Moderate (8) | High (10) |
| **Very Unlikely (1)**Rare / not expected but remotely possible | Low (1) | Low (2) | Low (3) | Moderate (4) | Moderate (5) |