MinEx
Health and Safety in NZ extractives

# Safety Alert

2 May 2025

Let's work together to keep ourselves and our workers safe.

## Worn pin in base of cylinder

During regular maintenance inspections, a quarry worker found excessive wear to the pin holding the base of the hoist cylinder on a 6x4 screen. The wear was caused by fine aggregate building up in the channel steel where the cylinder is attached to the chassis by a pin.

The quarry cut a hole in the headboard to allow better vision of the screen deck. When the deck is overfilled material falls through mesh and down into channel, wearing out the pin, bushes and retaining clip.

Luckily the worker caught this in time, as the pin could have easily fallen out, causing the cylinder to move/fail.

MinEx statistics on incidents with the potential to cause harm over the past 6 years show 16% of incidents (1,055 incidents) involve falls, of which 394 involved fall of equipment.

**You need to ensure that:**

1. All pins, bushes, retaining clips etc. are regularly checked to identify wear and tear.
2. Regular workplace inspections are conducted on all plant and equipment to ensure it is fit for work and is operating safely.
3. Where practical, observation portals are installed on plant to ensure suitable vision of wear parts.

**Know of an incident or near miss? Please share the learnings with us.**