



# Safety Alert

From the International Association of Drilling Contractors

ALERT 04 – 46

## SAFETY HOOK FAILURE - CHEMICAL CORROSION

### WHAT HAPPENED:

While cleaning and inspecting the tethered toolbox, a Floorman noticed corrosion on one of the safety hooks attached to the lanyard. After further investigation it was found that several safety hooks had swollen to twice the normal size and deteriorated enough to break by hand.

### WHAT CAUSED IT:

The safety hooks were sent to a lab for testing. The results showed the corrosion was caused by calcium chloride. The calcium chloride was used by the rig for a completion job several hitches prior to noticing the damage.

**CORRECTIVE ACTIONS:** To address this incident, this company did the following:

#### Action Item

1. Inspect all tethered tools immediately and remove from service any tools that may be damaged.

#### Recommendations

1. In the event any tools have to be replaced now or in the future ensure they are equipped with stainless steel safety hooks.
2. Keep aluminum tools and hooks away from calcium chloride. If safety hooks or tools contact the chemical, wash with a mild detergent immediately.
3. Inspect tethered tools, safety lanyards, and safety hooks at regular intervals.

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**The Corrective Actions stated in this alert are one company's attempts to address the incident, and do not necessarily reflect the position of IADC or the IADC HSE Committee.**

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