

Step Change Safety Alert Template



Alert Title

Swage lock fitting failure on sample skid

What leaked and where from? E.g.: "Lube oil leak from compressor system open vent"

Incident Date

26 July 2012

The date on which the incident occurred, not when this form was completed

Location Type

Fixed Production Platform

E.g. Floating/Fixed Production, Drill Rig, Vessel, etc.

Specific Equipment Involved

A ¼" Swage lock fitting that parted on the oil metering system

Give as much detail as possible about the equipment involved

Description of What Happened

Following indication of minor gas leak in a module, an oil leak from the oil metering sampling skid was found by the investigating operations team.

There was no executive action from the fixed fire and gas system. Manual intervention was required to isolate leak path.

A ¼" Swage lock fitting had parted on the oil metering system. The pipework was pressured to 60 barg when it sheared. Most of the oil went into the bund below the sampler, but some could have splashed outside on the deck.

Be as detailed as possible. Give equipment history and approximate time(s) of actions/occurrences related to the incident

Cause of Incident

- Small bore tubing line failed in service potentially due to lack of sufficient support and exposure to vibration.
- The failed pipework has a ball valve attached to it which was unsecured. A suitable assessment of potential failure during installation would have identified additional supports to prevent/limit likelihood of vibration failures.
- Potential failure was identified several months earlier during a vendor's survey however no action had been taken prior to the fitting failing.

Build from OIR/12 checklist

Incident Consequences

Gas release

Include the release itself and any subsequent emergency actions/dangerous occurrences

Lessons Learned

- It is important to consider the impact vibration may have when installing small bore fittings

Include a few bullet points clarifying what was learned from the incident

Recommendations/Actions

- Appropriate support to small bore fittings
- Failure analysis to be conducted by an integrity specialist, especially on pipe work relating to hydrocarbon service
- When vendors identify anomalies during surveys, appropriate assessment of the findings must take place at the earliest point. This may identify items requiring immediate action before failure occurs.

Include a few bullet points stating any recommendations/actions that will be made/taken as a result of the lessons learned

Contact Details (Optional)

If you would like your submission to be anonymous, leave this section blank