

## Pollution caused by burst hydraulic hose

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A Member has reported a pollution incident which occurred during recent diving operations.

### What happened?

A hydraulic torque tool was deployed with the ship's hydraulic down-line. The planned intervention was to operate a sub-sea valve. However, the hose failed and some 200 litres of hydraulic oil were lost to sea. No divers were harmed by the event.

The hose certification was checked and found to be in-date. The hose was being operated within its specified pressure limits, but the failed section of hose was removed and inspected. The outer cover of the hose appeared to have been damaged through abrasion or scraping on a rough surface or sharp edge. The nature and colour of corrosion on the hose braiding indicated that the damage had originally occurred some weeks before rather than just prior to the failure.

### What were the causes?

The subsequent investigation revealed that the inspection regime onboard had failed to visually detect an obvious area of damage to the hose prior to its deployment.

### Actions

Our Member recommended the following actions:

- Hoses to be reeled out on a regular basis and inspected thoroughly for damage, including connectors. See the attached poster (courtesy Step Change in Safety/UKOOA) for information regarding types of damage and failure mode.
- Frequency of above inspection should be commensurate with the utilisation: the more utilisation the shorter the period between inspections, but all hoses to be inspected not less frequently than every six months.
- Maintain a written log of inspections including the name of the person inspecting.
- Appropriate responsible person, for example, deck foreman and/or chief

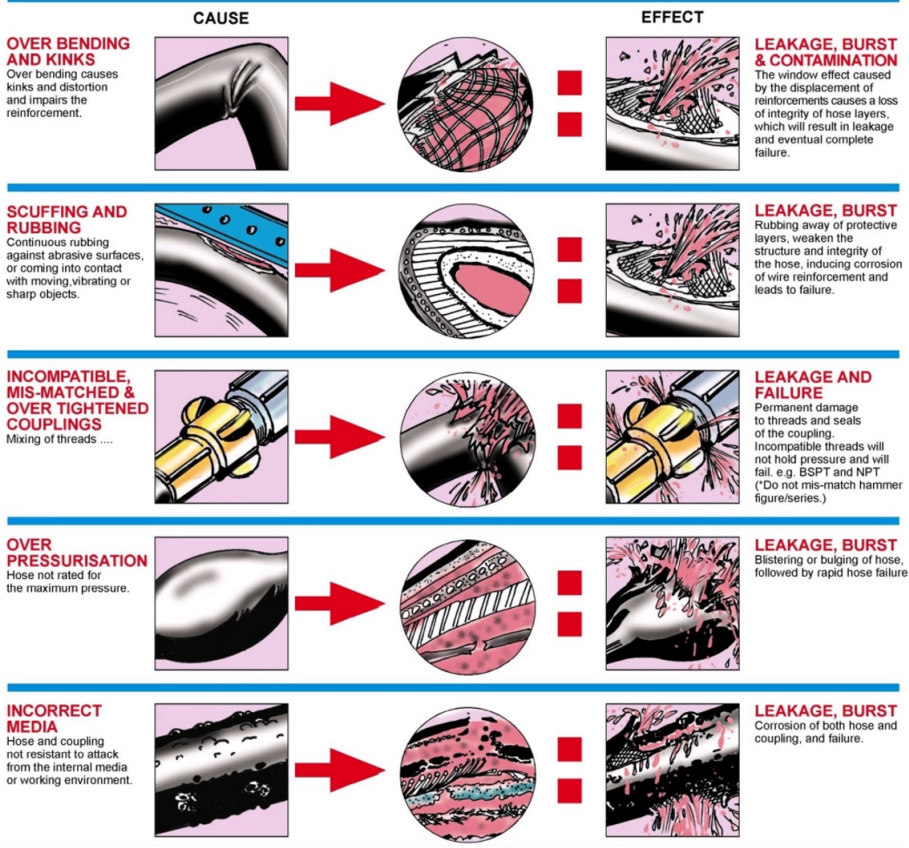
engineer, to verify that the inspection regime is followed and that suspect equipment is quarantined and replaced.

## Hydrocarbon Leak Reduction Campaign

### Flexible Hose Safety

Lack of care in the installation and use of flexible hose assemblies will lead to failures, which can cause personal injury, threaten your installation and have impact to the environment.

REPORT THE FOLLOWING:-



### Make sure you are using the correct hose for the application

Developed by the UKOOA flexible hose management workgroup

In association with:



HYDRA

And supported by:



Further Information:- [www.stepchangeinsafety.net](http://www.stepchangeinsafety.net)

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