## VIEWPORT3

EST 2017

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## Collaborating for efficiency





- Assist divers in optimising cleaning methods
- Design and build diverfriendly capture system
- Retrieve k-node geometry at <1mm accuracy</li>
- Issue 3D point cloud to clamp design contractor

## Collaborating for efficiency



#### Result

Using the custom designed diver capture system, high quality data was retrieved, beating the client's <1mm stipulation.

Data transmitted to engineering house as 3D geometry.

First-time clamp installation aided project efficiency.

# Increased understanding through collaboration







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- Liaise with ROV team to design workflow which negates Viewport3 offshore attendance
- Mitigate photographic issues caused by reflective surface
- Ensure depth of pitting is accurately recorded
- Provide basis for future deviation mapping

# Increased understanding through collaboration



#### Result

Project completed with indicated accuracy of 62 microns (0.062mm).

All anomalies fully captured and measurable.

Simplified and inclusive report issued to customer.

Retain data for comparison with future scans to enable propagation study.

## Pre-lift 3D Scanning (decom)



- Minimise cleaning requirements
- Capture lifting points
- Capture guide posts and receptacles
- Capture John Brown
  Interface
- Capture pile connectors
- Capture TVM interface joint
- Capture template flanges
- Verify TVM against CAD

## Pre-lift 3D Scanning (decom)



#### Result

Comprehensive coverage of stipulated targets and ad-hoc items added by client during campaign.

All results verified on-board to client satisfaction.

3D understanding of the geometry as an aid to planning lift operations.



- Record chain table turret in 3D geometry
- Capture tie-back points and chain stoppers in high detail
- Highlight any issues likely to hinder line change out operations
- Provide images, 3D flythrough and live 3D options for divers / removal contractor use during planning operations





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#### Result

Comprehensive coverage of stipulated targets.

All results verified on-board to client satisfaction.

Essential geometry confirmed as being in good condition.

Issue media to customer to aid planning operations.

#### Come visit us to see;

- Full detail RAW clouds in native 3D environment
- Reporting methods used
- Reverse engineering techniques
- Intelligent data interrogation
- Deviation mapping examples





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