

INSPECTION IN HOSTILE ENVIRONMENTS

-Pressure up to 300 BARS.



SOLUTION

-Resistance to vacuum environments

ONLY

IN FRANCE

-ATEX environment *



-Very high resistance to shock, explosion

-Suitable under different hostile conditions

CASE UNDER PRESSURE

Customer issue:

Collapse of Trelleborg hose at 40m depth

In accordance with Root Cause Analysis , need to monitoring the reactions of the Trelleborg hose with different test setup

Customer requested :

- Needs an Independent system without external electrical supply
- Needs an Independent lighting system (darkness of the cabinet)
- System capability of filming up to 4 hours of testing
- System can cumbersome test chamber diameter 600mm, taking into account the space occupied by the product.

Number of Tests Performed 24 tests with an average of 2 hours of recording

VACUUM AND CLIMATE CASES

Customer issue:

Study and measurement of equipment at vacuum pressure as part of a product qualification

Customer specifications:

- Shirk footprint climatic chamber system 0.216m3
- Resistance to change of temperature -10 ° to + 45 °
- System capability of filming at 60 frames / second for 2 hours

Number of completed cycles: 34 cycles of 2 x1H

ATEX ENVIRONMENT CASE

Customer issue:

55000 Liters petrochemical tank inspection

Access possible, only through hole a 25cm diameter maximum

Customer specifications:

- Need excellent video quality for surface examination and welding
- The fastest possible response time.
- Live preview of the image

16 tanks analyzed, on average 70 HD photos extracted from the videos

INTERNAL MONITORING PRESSURE VESSEL

OUR SYSTEMS ARE ADAPTABLE IN ANY SITUATION ACCORDING TO CUSTOMER REQUESTED.

CHECKING A PRESSURE TEST VESSEL:

- LENGTH: 20M
- INTERNAL NOMINAL DIAMETER: 22CM
- EXTERNAL DIAMETER: 41CM
- EXTRACTION OF VIDEOS AND DELIVERY TO THE CUSTOMER ON DIGITAL MEDIA



CONTROL OF CONCRETE DRIVING SURFACE

INTERNAL CONTROL OF A CONCRETE SALTWATER PIPE

- LENGTH: 140M
- INTERNAL NOMINAL DIAMETER: 90 CM
- EXTERNAL DIAMETER: 106CM
- EXTRACTION OF VIDEOS AND DELIVERY TO THE CUSTOMER ON DIGITAL MEDIA



INTERNAL CONTROL PETRO-CHEMICAL TANK

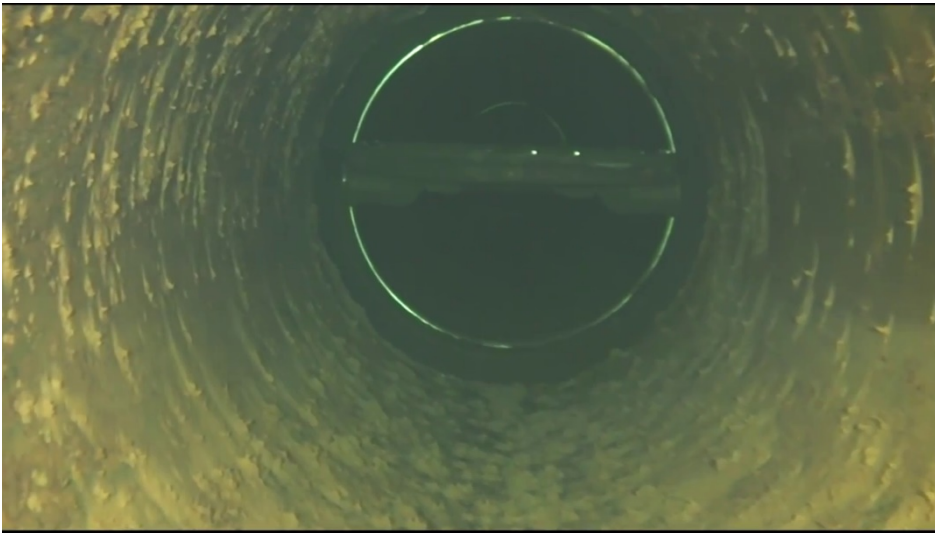
CHECKING A PETROCHEMICAL TANK:

-HEIGHT: 8M

-INTERNAL NOMINAL DIAMETER: 300CM

-DIAMETER DRIVING ACCESS: 25 CM

-EXTRACTION OF VIDEOS AND DELIVERY TO THE CUSTOMER ON DIGITAL MEDIA



CONTROL DURING PRESSURE TEST

VISUAL CHECK OF A PRODUCT DURING A PRESSURE RAISE TO 270 BARS:

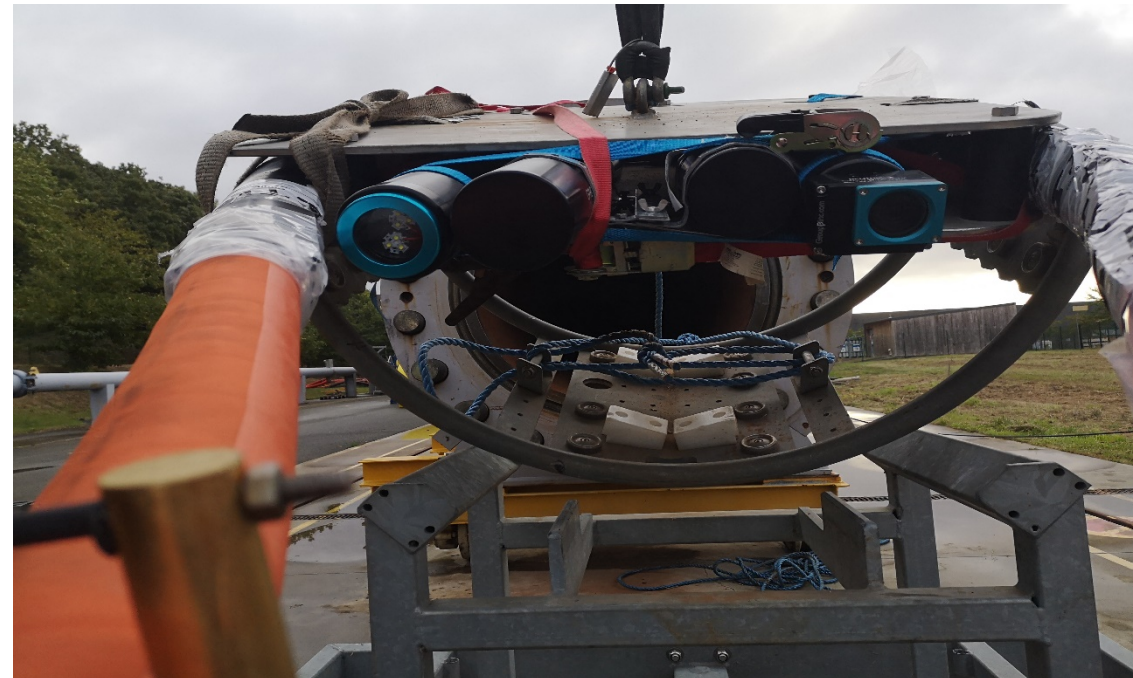
- POSSIBLE LOCATION OF THE 9 CM RECORDING SYSTEM

-CHECK-IN DURATION: 6 HOURS

-NUMBER OF CAMERA: 4

-HIGH LUMINOSITY SYSTEM: 2

-EXTRACTION OF VIDEOS, CREATION OF A FILM WITH THE DIFFERENT POINT OF VIEWS AND DELIVERY TO THE CUSTOMER ON DIGITAL MEDIA



REMINDER OF THE MAIN FUNCTIONS

- Autonomous recording systems (No external supply needs)
- Image quality up to 4k 60Fps
- Recording time up to 12 Hours
- Systems resistant to 300 bars of pressure
- Systems resistant to Vacuum pressure $<10^{-7}$ mBar

- Small size 88mmx400mm x2 if lighting
- Resistant to temperature exchange
- Systems adaptable to most situations
- Possibility of use in a destructive environment
- Preview -“On live” and record of images/video during test.