

Case Study: Offshore Installation

Offshore Emulsion Watch Using LiquiDetect 2.0



ROCsole

WHAT HAPPENED IN 3 SENTENCES

The customer required a reliable solution for its offshore field to ensure precise monitoring of emulsion levels, manage water levels accurately, and gain comprehensive insights into the operational performance.

The LiquiDetect 2.0 product was applied, and it has successfully measured and recorded the layers of oil, emulsion, and water inside the separator vessel.



See how Rocsole LiquiDetect 2.0 works: <http://rocsole.co/ldworks>



All success is based on great teamwork and in this case we'd like to thank our client's team for the great cooperation.

Please meet the Rocsole team involved:



Tommi Villanen

 [linkedin.com/in/tommivillanen/](https://www.linkedin.com/in/tommivillanen/)



Arto Voutilainen

 [linkedin.com/in/arto-voutilainen](https://www.linkedin.com/in/arto-voutilainen/)



James Walls

 [linkedin.com/in/james-walls1962](https://www.linkedin.com/in/james-walls1962)

ROCSOLE LiquiDetect 2.0 Profiler offers a reliable solution for precise liquid level management in challenging offshore environments, enhancing operational efficiency and productivity.

CHALLENGE

The customer required a reliable solution to ensure precise monitoring of emulsion levels, manage water levels accurately and gain comprehensive insights into the operational performance. Previously, the customer has tried to achieve this goal by utilizing two other options, including a nucleonic system.

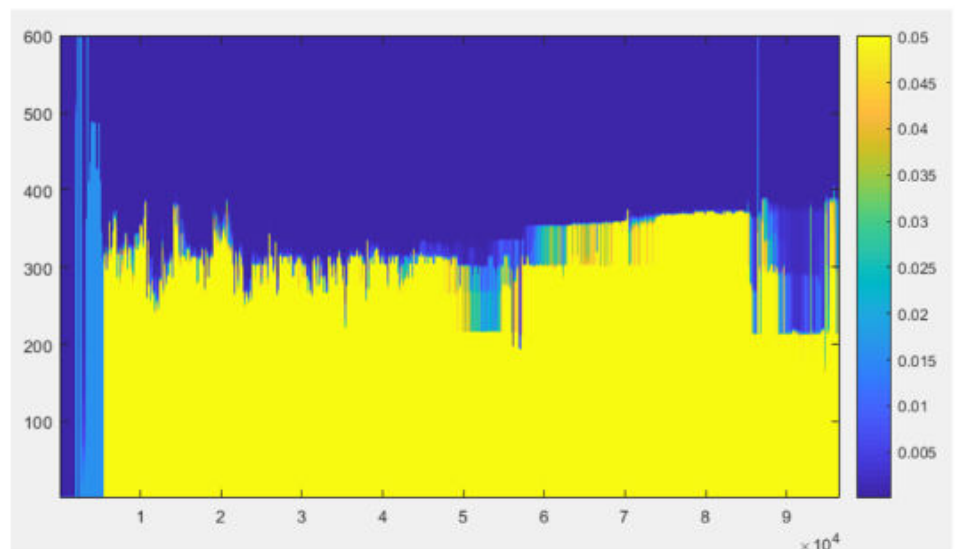
SOLUTION

ROCSOLE proposed its unique Electrical Tomography based solution with a bespoke design which included a customized sensor, to manage the space constraints. This design allowed full profiling of the vessel and easy installation.

RESULTS

LiquiDetect 2.0 has successfully measured and recorded the layers of oil, emulsion, and water inside the separator vessel. In addition, the results enabled the customer to see the impact of solids within the oil layer.

Picture: Visualization of profiles during 2.5 months after commissioning.



THE DETAILS

System Design:

- Operating Pressure 9 barg
- Design Pressure 25 barg
- System Operating Temperature -75 °C to +95 °C
- Design Temperature -29 °C (-20 °F) to +100° C (200 °F)
- 1 x 64 Electrode sensor
- User Interface Webroc 1.0



Delivery Content:

The installed package contained the Rocsole's award-winning **LiquiDetect 2.0** solution

- 64 electrodes of measurement area 2880 mm
- CSA certified
- Sensor material EN 1.4410 (Super Duplex)
- Cabinet material EN 1.4404
- Vessel top installation via existing nozzle

**Thank you for
the great cooperation!**

It was a pleasure being able to help set up a really reliable solution.
We'd be happy to help you in your projects, too.

Please also check out our product brochure about **liquiDetect 2.0**

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**If Oil and Gas
operations can be seen
as Cleantech challenges,
this opens the doors
to sustainable profits.**

- PEKKA KAUNISTO, CEO ROCSOLE

Rocsole is based in Finland, a country where nature is still the dominant force in everyday life.

This is probably what makes the Rocsole team especially aware of how important it is to preserve safety for nature and human advantage.

We consider ourselves on a **Cleantech** mission and therefore have been rethinking and transforming the Oil & Gas industry since 2012.

**Will you join us
on that mission?**

Let's talk.

Kartanonkatu 2
70700 Kuopio
FINLAND

tel: +358 40 775 6993
email: sales@rocsole.com

rocsole

SEE BEYOND.