



LEO MARITIME

ENVIRONMENTALLY CONSCIOUS TECHNOLOGIES
IN ASOCIATION WITH



LegaSEA®

Products & Services

Oil management

A solution that enables equipment operators to reduce operating costs, minimise breakdowns, extend equipment life and increase equipment productivity



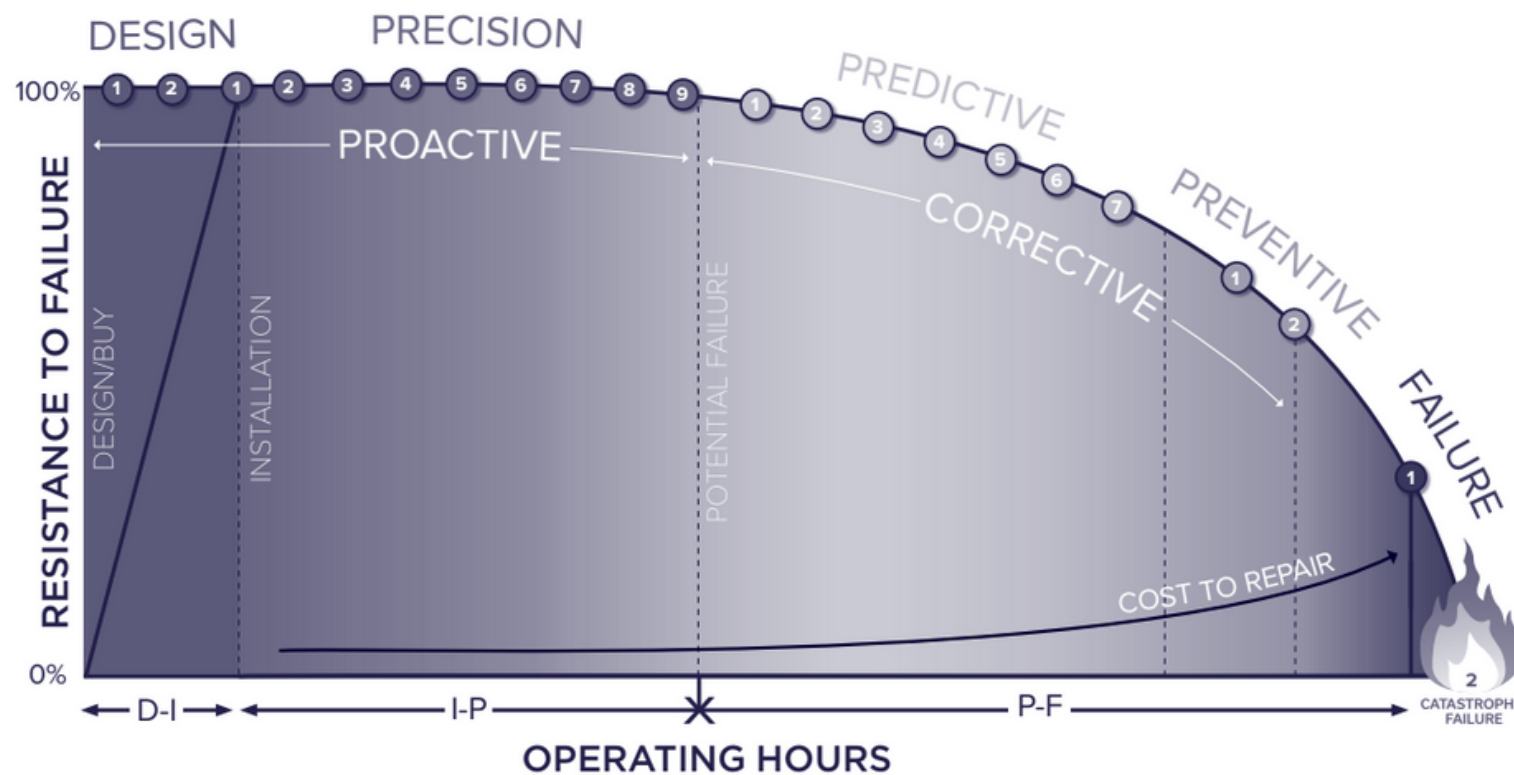
Monitoring 24 hours a day, 30 times per second.



Information



D-I-P-F CURVE (DESIGN-INSTALLATION-POTENTIAL FAILURE-FAILURE)



Attribution/inspiration: The D-I-P-F curve was originally developed by Doug Plucknette, Certified Reliability Leader, Author, *RCM Blitz* (ISBN: 978-0-9838741-6-4) and further modified/evolved by Brian Heinsius, Certified Reliability Leader

D-I-P-F CURVE (Design - Installation - Potential failure - Failure)



water



fuel
dilution



wear metals



soot



oxidation



temperature



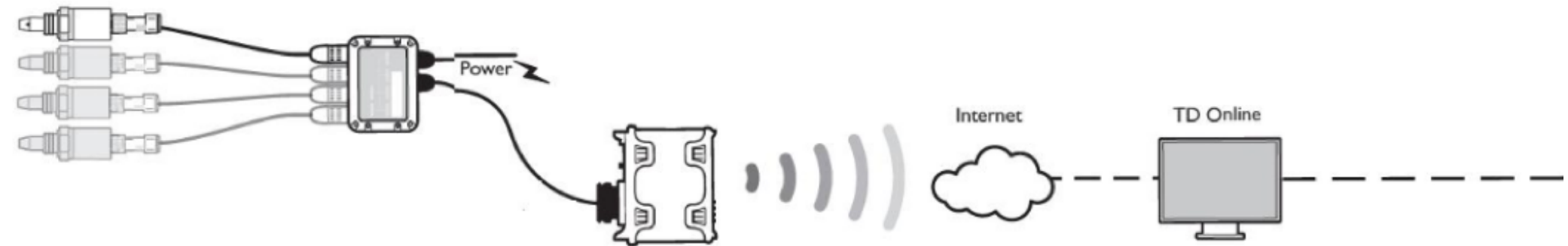


Oil management benefits

- 1 Reduction of waste oil
- 2 Saving oil and repair costs
- 3 Reduction of equipment wear
- 4 Reduction in engine repair waste
- 5 Increased time between oil changes
- 6 Reduction of downtime and associated costs



The technology



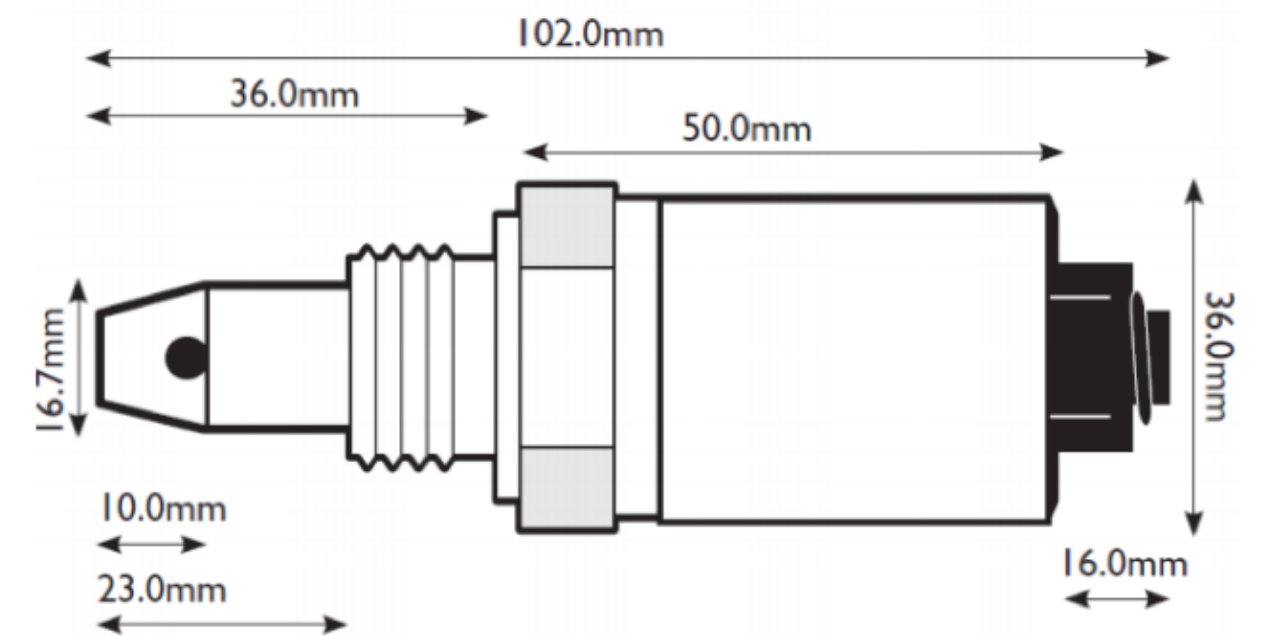
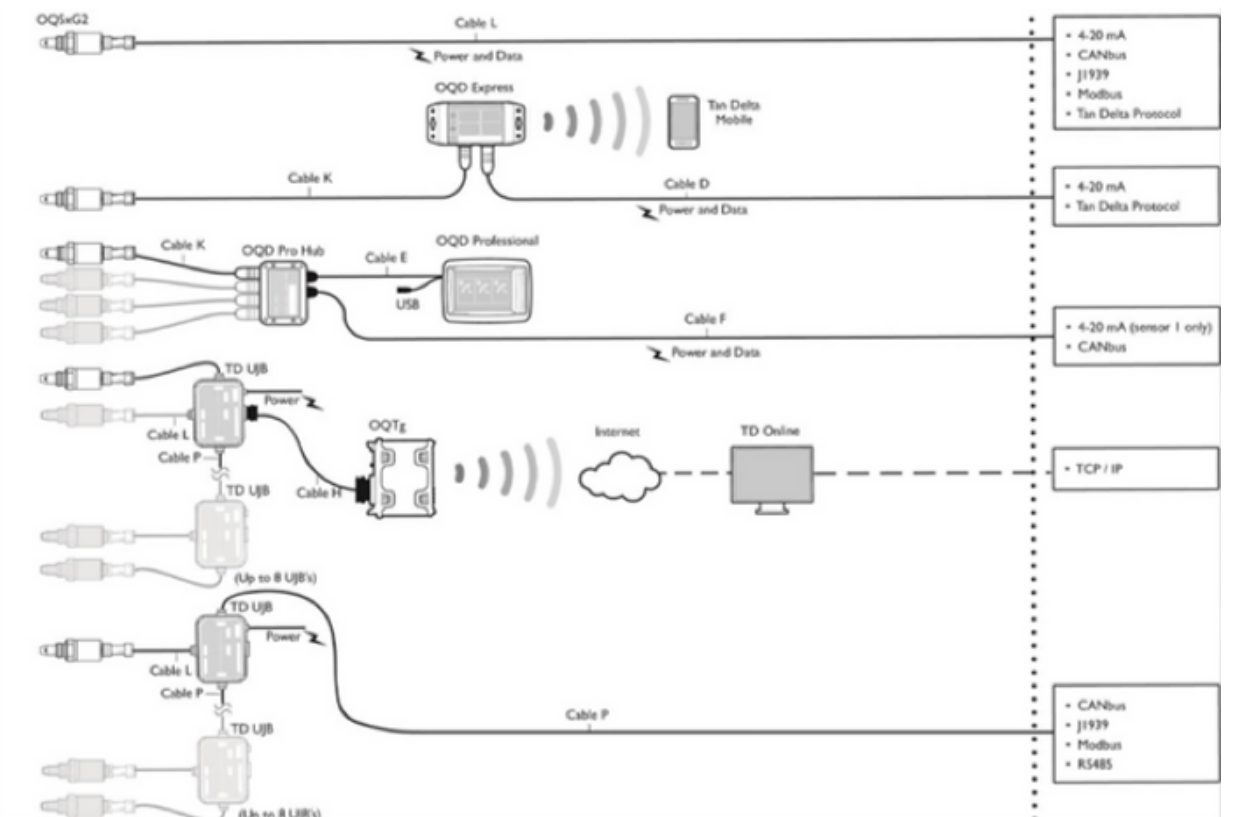
- Warning alarm integration
- OQSX sensor over 60 times more sensitive to oil contamination than any other dielectric constant measuring sensor
- True real time continuous monitoring of any oil type in any application
- Oil quality change sensitivity detection of 0.01% (10ppm) with an accuracy margin of +/-0.5%
- Plug & play data output compatibility with all data display, telematic and PLC system



Installation

The OQSxG2 sensor is small, robust and quickly installed in any inspection port and connected to any existing display or telematics system.

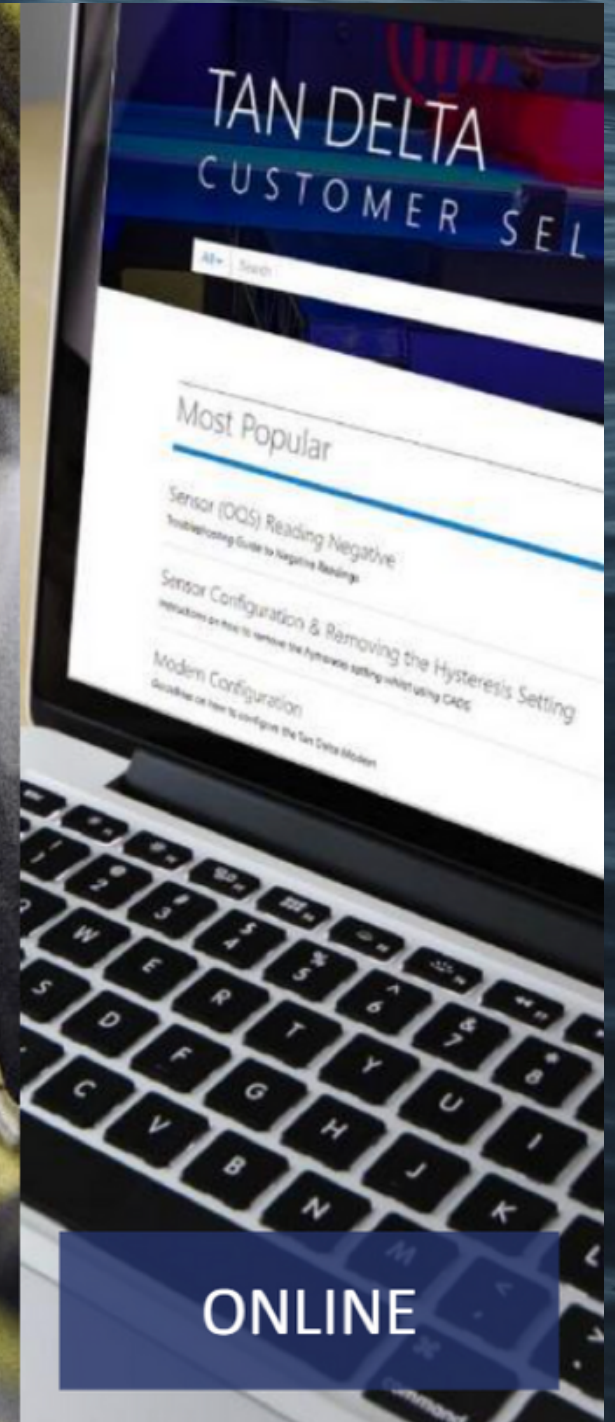
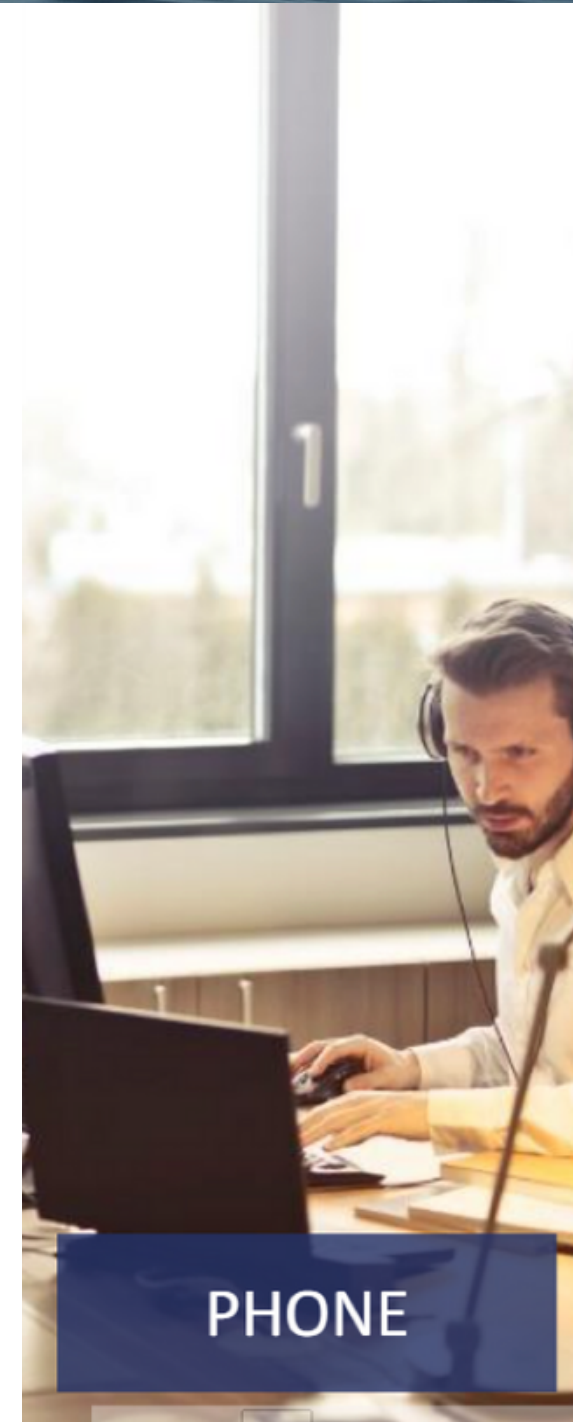
With multiple bespoke pathways and thread sizes to fit your requirements.



Support

Our support servicio includes:

- Custom oil configuration and profiling service.
- Full turn-key oil condition monitoring system implementation, planning and execution service.
- Dedicated on-going support from our experienced technical and customer Support departments.



Case study

A wide variety of case studies are available on request ranging from gear box, hydraulic systems and main engines.

GAS ENGINE



17% Cost Reduction



20% Increase in productivity



3 Months Pay Back

HYDRAULICS



Reduced Lab Sampling costs



£4.5k saving per asset per year



12 Months Pay Back

GEARBOX



26% Increase in Operating Hours



Significant cost reductions



5 Months Pay Back

GENERATOR



Early Failure identification



£34k saving per year



7 Months Pay Back



VAST

Leo Maritime and Legasea are keen to include any products or services that we feel provide added value.

Our “Value Added Sustainable Technology” or "VAST" initiative allows us to do just that.

We highlight products or services that complement our client's current focus, above and beyond our standard service.





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