

**Baker Hughes** 

# VitalyX Marine

A Baker Hughes Innovation, brought to you by Mandalay



# The need for digital real-time lubrication oil monitoring

Most common asset failure causes <sub>1</sub>

**1<sup>st</sup>**  
Lubrication oil

**\$756k**

Average cost of failure on marine vessel <sub>1</sub>

**50%**

Oil life wasted by following OEM oil change intervals

**3%**  
of maintenance budget spent on lube oil <sub>2</sub>

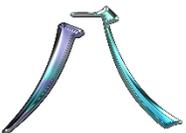
**40%**  
Of maintenance budget spent on correcting issues caused by poor lube oil management <sub>2</sub>

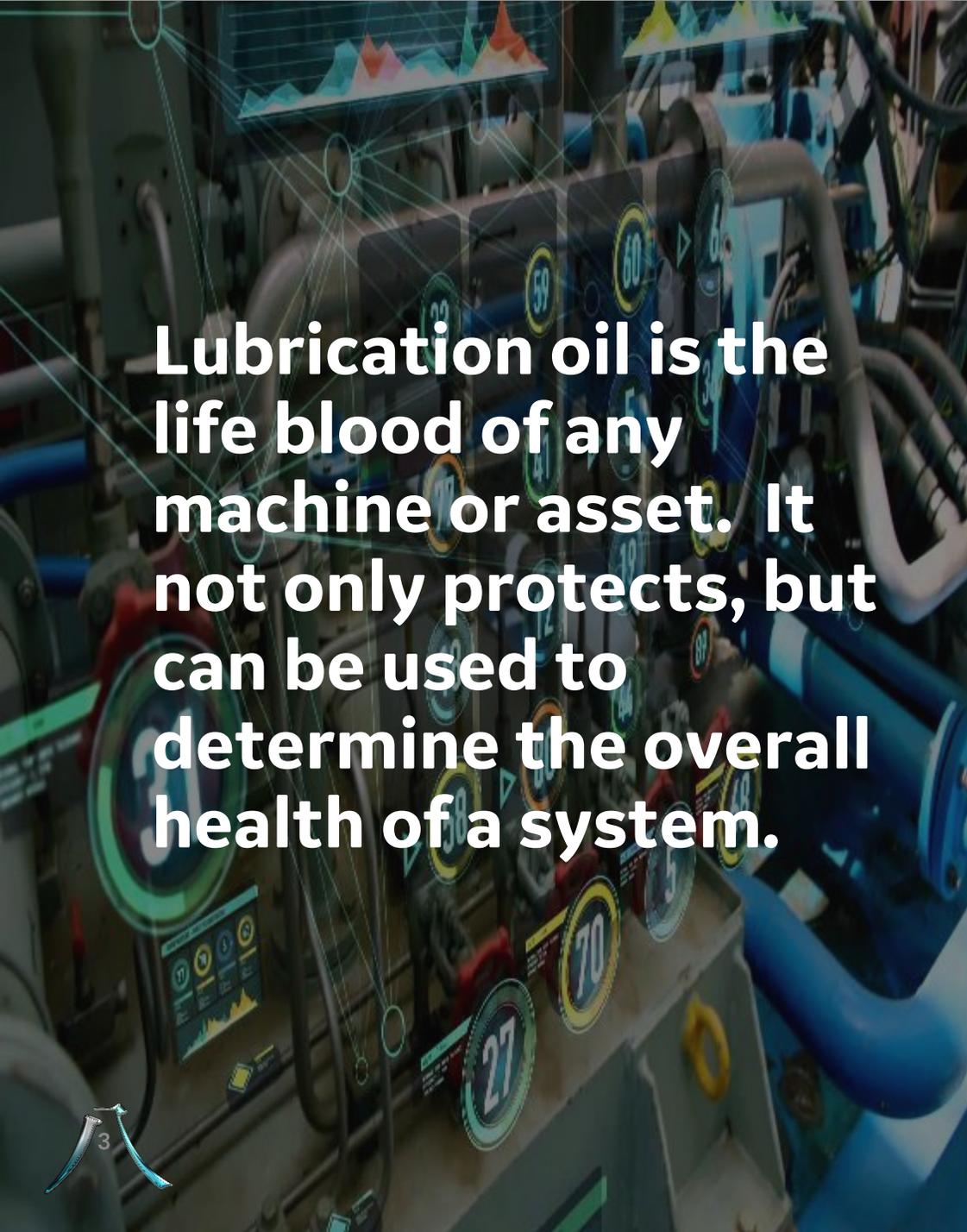
**20%**  
Lube oil changes occurring at the correct time

**9x**  
VitalyX has proven to extend lubrication oil changes on a 4 stroke marine engine

**2%**  
of the shipping industry has fully adopted condition based maintenance strategies despite the cost and reliability benefits it brings

Source: The Swedish Club Report 2018 <sub>1</sub>, Lubetechnologies.com <sub>2</sub>





**Lubrication oil is the life blood of any machine or asset. It not only protects, but can be used to determine the overall health of a system.**

**BHGE presents VitalyX. VitalyX is a real-time continuous lubricating oil monitoring platform, that goes beyond simple oil testing.**

**VitalyX uses enhanced algorithms and machine learning to create an picture of a machines health and prevent asset loss.**



**Continuous in-line monitoring**

24/7 monitoring not only gives real time data and alerts, but enables important and uninterrupted trend analysis to identify subtle changes in performance.



**Lubrication oil specific results**

Through a BHGE proprietary process, VitalyX measures the specific properties and performance of specific lubrication oils, this gives greater accuracy of results



**Fluid + wear particle + vibration analysis**

VitalyX measures both the fluid properties of lubrication oil as well as the physical particulates contain within to gain detailed insights into performance.



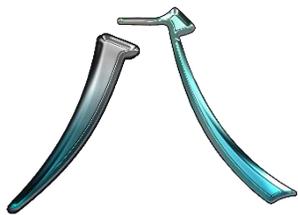
**Real-time actionable data interpretation**

VitalyX not only collates data but turns into intuitive and practical actions, with full user customization of thresholds



**Simple data at your fingertips, wherever you are**

The data is streamed in real-time to a user friendly dashboard that can show fleet wide data down to individual asset level, or the data can be streamed locally



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# Value Proposition

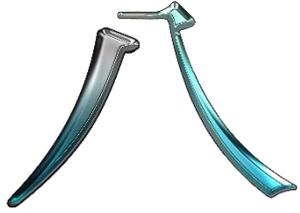
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# Value Proposition

1. Prevention of Catastrophic Loss
2. Extension of Lubrication Oil Change – Actual Results
3. Carbon Footprint Reduction – Marine Real Example
4. Enabling Autonomous Operations: De-manning Vessels





# Thanks

For all information contact

**MANDALAY**

[rtm@mandalay.tech](mailto:rtm@mandalay.tech)

+32486510052



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