



# CYLINDER CONDITION OPTIMIZATION PROGRAM

Maximize cylinder oil savings and optimize your engine condition. Find out why our CCOP model gives you the most comprehensive analysis in the market.

## Increased engine complexity

Running a two-stroke engine efficiently is becoming increasingly complex. Enhanced environmental regulations (such as SECA, IMO2020, EEXI and CII), changes in marine engine design (now operating at higher temperatures and pressures), new operation requirements (slow steaming/part load operation), and the reduced specialism of crew all add to this.

That's why it's more important than ever to work with cylinder lubrication specialists to help maintain a healthy cylinder condition.

## Advantages:

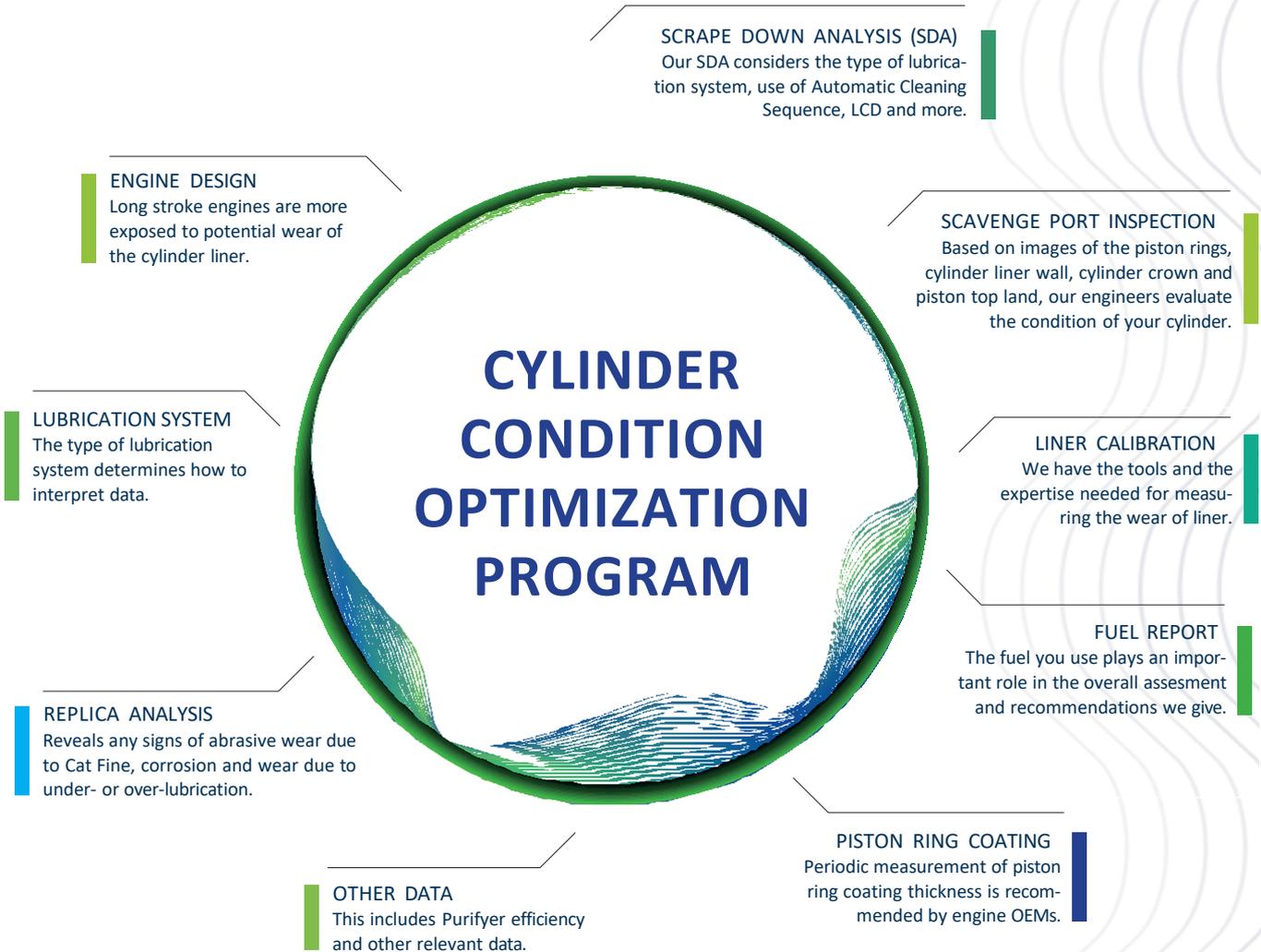
- Improved engine performance and condition
- Improved cylinder condition
- Extended Time Between Overhaul (TBO)
- Detection of early warning signs (eg. cold corrosion and build-up deposits on piston rings)

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# Comprehensive analysis

To present a complete overview of your cylinder condition, we consider all relevant parameters. Our experts in lubrication and tribology provide tailored recommendations for running your engine efficiently. The exact program elements are decided during the initial consultation.

## We consider the following program elements:



## Not just another SDA

We conduct root cause analysis, taking all parameters into consideration such as the lubrication system, engine design, piston ring design, fuel and cylinder oil in use.

Findings are analyzed by our cylinder specialists with sailing experience, who base their conclusions on the specific operational conditions onboard your vessel.

This comprehensive process is completed as part of our Cylinder Condition Optimization Program.

## Trained specialists

Hans Jensen Lubricators has a century of experience in lubrication technology and offers leading expertise within cylinder lubrication and condition analysis.

We are the only independent lubrication specialist. Our client portfolio contains thousands of ships now realizing the full potential of their engine.