

SAILADV

Analyze
Determine
Validate

Products and Services

Performance Analysis
Failure and Material Analysis
Predictive Maintenance
Oil, Fuel & Coolant Analysis
3D Scan

Oil, Fuel & Coolant Analysis

The analysis of oil samples, coming from machinery in operation, is an efficient diagnostic tool to understand the health status of the systems. The “weak signals” contained in the used oil allow to identify any contaminant or the chemical / physical degradation of the lubricant. The analysis reports provide useful information to take strategic decisions before a potential failure or in order to preserve the best functional integrity of the yacht systems. Knowing the “health status” of a system allows to evaluate in a few seconds the severity of a possible damage to a mechanical component of the system or the presence of contaminants.

PREDICTIVE APPROACH

The oil analysis are used to understand the “conditions” of the machinery. We fix certain targets to reduce or even eliminate the causes of the faults. This approach must pass through the Proactive phase.

- Greater savings thanks to fewer stops
- Programmed maintenance avoid urgent service
- Greater operational security
- Longer life cycle of the systems
- Better perceived quality of the yacht systems



MARINE PROPULSION

The Marine Propulsion is one of the most critical system where Predictive maintenance approach may give the best results in terms of R.O.I. SailADV analysis can provide precious answers based on conditions monitoring for example: a minimal amount of sodium may lead to salt water contamination, trough corrosion of heat exchangers and intercooling systems. Quality and residual lubrication properties evaluation of the oil are vital to the efficiency of the systems.

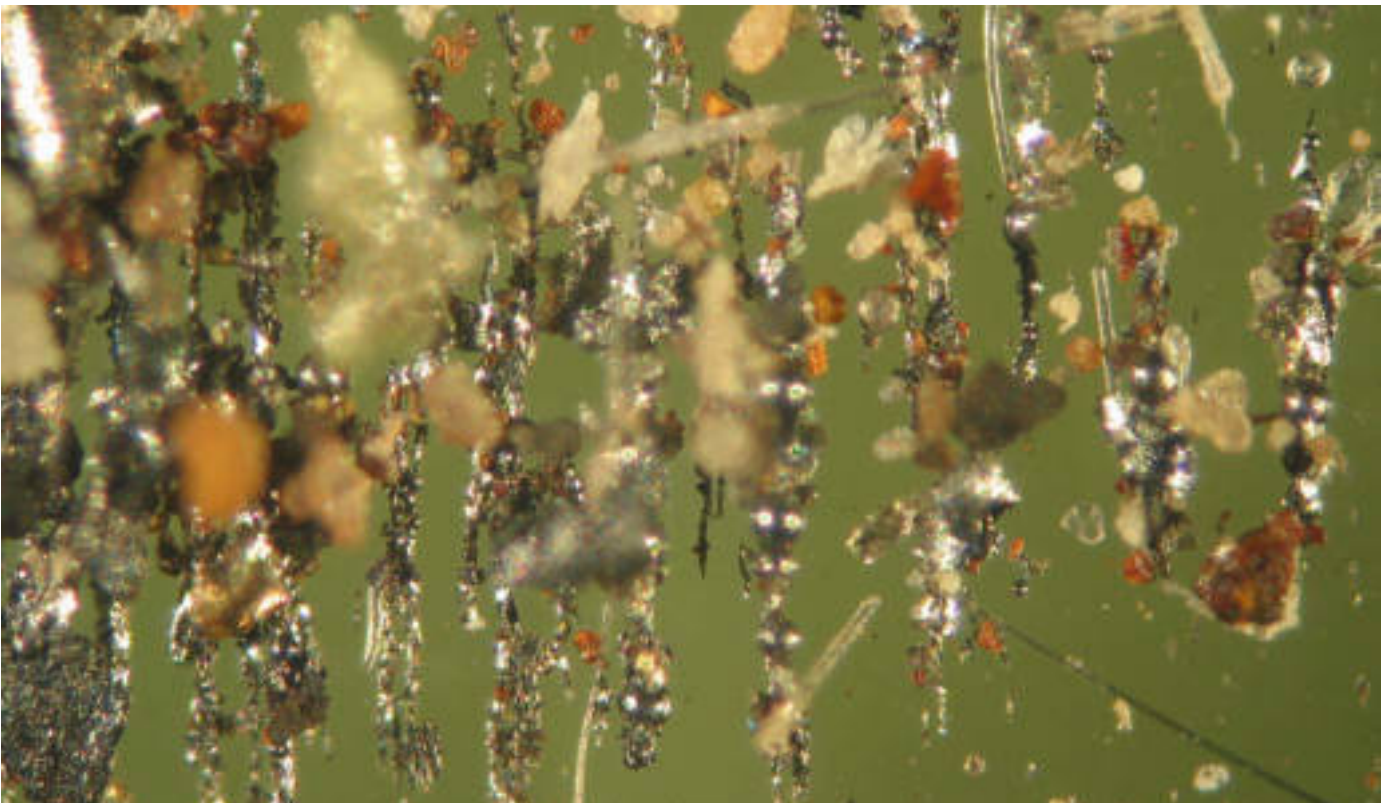
GEAR BOX

Modern gearboxes have been completely re-designed, in order to obtain smaller dimensions, higher transmission ratios and lower lubricant amount. But as consequence of that, it has become much more stressed than ever before, with high specific loads and operating temperatures. The lubricant working-life has generally got shorter, but this does not preserve the gearbox from damage.

Only an oil analysis program that keeps wear metals trend under strict control (by RDE spectrometry), with a special attention to ISO 4406 contamination code and to proper lubricant viscosity, can protect the gearbox from unexpected breakdowns and allow to optimize lubricant management.

HYDRAULIC SYSTEM

Most of the hydraulic systems failures can be attributed to contamination, usually due to the environmental dust, moisture and other exogenous substances. The analysis is therefore mainly focused on contaminants evaluation, using very sensitive analytical methods such as water determination with Karl Fischer method or particle counting, sizing and characterization using Lasernet Fines, a revolutionary particle imaging technology, which automatically classifies particles in metallic and nonmetallic, based on their shape and appearance. Furthermore optical microscopy ensures a detailed evaluation of wear particles and varnish precursors, that cause serious damages in the most sensitive components (valves, actuators and pumps).



SAMPLING

Sampling procedure

In order to trend the health status of the system, SailADV takes an oil sample regularly while the system is operating, at a temperature of about 80°.

Oil Analysis Kit

[With the SailADV Oil Analysis Kit we provide everything you need to make a sampling wherever you are.](#)



Sending Samples

SailADV takes care of collecting the samples wherever the client is and delivering them to the laboratory.

Check your results

Through a web-based application designed for this purpose, SailADV manages and delivers analysis reports used oil analysis reports.

in collaboration with:



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