

A marine engine survey?

Today's recreational boats are complex structures, often equipped with extensive, high-tech equipment and amenities, including propulsion and auxiliary generating engines and related systems. Expecting a single surveyor to be fully expert in all types of engines is akin to expecting a physician in general practice to be expert in neurology, obstetrics, etc. Lawyers also have segmented their practice of law to areas of special expertise. The age of specialization has arrived in marine survey practice as well. Certain types and makes of boats and engines experience recurring problems. A competent engine surveyor will be familiar with most models and will be able to advise you on the long-term suitability of your intended purchase and its equipment, particularly in relation to how and where you will be using it. A factory trained engine technician will also have the test equipment for and specific knowledge of the engines to which his training applies. The analogy is similar for automotive engines as well.

Before making an investment in a boat, a marine engine survey should be performed to ensure that the propulsion and auxiliary generating equipment will perform to expectations.

The results of a survey by a trained, certified, independent expert help a prospective boat owner make an informed decision about the purchase of a particular boat and provide guidance about the engine's current condition and future maintenance requirements so that necessary recommended service and repairs can be done before deficiencies lead to performance failures.

Your investment in an independent marine engine survey is an investment in peace of mind.

It will give an idea of exactly what you are buying and help you learn what will be necessary to maintain it in the future to deliver you the best the boating experience can offer.

Marine engine surveys (propulsion and auxiliary generator engines) consist of several test procedures and evaluation methods, including but not limited to the following.

- Cold engine check
- The use of mechanical and electronic gauges and probes
- The engine exhaust will be monitored during the cold start
- A sea trial will be performed and the engines will be monitored at specific rpm's relating to the engine manufacturer's performance specifications. This includes operation at WOT (wide-open throttle) for a brief period
- Oil samples will be taken from the engines, gears and generator(s) after the sea trial. Oil samples taken when an engine is hot produce the most accurate test results
- Consultation with the client about the survey findings and recommendations.

A detailed written report following the inspection will be issued with findings, recommendations and test results.