

Marine Surveying

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Qualifications

- ◆ 1. Apply to be an associate
- ◆ 2. Survey 5 years and submit surveys for review
- ◆ 3. Take exam
- ◆ 4. Continuing education

Experience

- ◆ Survey enough to be very familiar
- ◆ What is “normal”
- ◆ What is extraordinary
- ◆ Off the record

Types of Surveys

Appraisal

Walk through

Insurance - C&V - condition and valuation

Insurance - damage

Pre-purchase

Specialized - engine, electrical, corrosion, cargo

Appraisal

- ◆ Donation, divorce, estate settlement
- ◆ Proscribed content and procedures
 - ◆ American Society of Appraisers
 - ◆ Used in court

Walk-through

- ◆ 1-2 hours
- ◆ General impression
- ◆ Lots of pictures

Insurance - C&V

- ◆ Required by insurance companies
- ◆ Paid for by boat owner
- ◆ Not as detailed

Safety - sink, blow up, do harm,
legal requirements

Condition - damage, upkeep,
equipment

Value - Sources for value

Insurance - Damage

- ◆ Paid for by insurance company
- ◆ No ruling on coverage
- ◆ Coverage varies - wear and tear vs. accident









800 325-3632
ropa
SWITCH
1 1/2
真正製品
WARRANTY
160066

...gas, grease, and ...
...plastic or ...
...water ...
...eyes, may irritate skin ...
...with any other chemicals. Do not get in ...
...water. LIE YOUR FEET DOWN LA ...
...and contact area to place on the other ...
...TREATMENT: ...
...Always Recycle

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Pre-purchase survey

- ◆ Paid for by buyer
- ◆ Belongs to buyer
- ◆ Standards based - ABYC, NFPA, USCG
- ◆ Covers everything without disassembling boat
- ◆ One a day

Basic structure

- ♦ Hull, deck, interior bonds, reinforcement
- ♦ Damage, repairs, blisters, moisture, delamination
- ♦ Fairness of hull - bumps and hollows

Boat systems

- ◆ Engine
- ◆ Fuel - hoses, filters, tanks
- ◆ Exhaust - hoses, muffler
- ◆ 12 volt - batteries, wiring, panel, chargers
- ◆ 120 volt - shore power connection and cord, inverter, generator, overcurrent protection

Boat systems

- ◆ Water system - tanks, hoses, pumps, waste, through-hulls
- ◆ Safety - Coast Guard requirements, anchor gear
- ◆ Navigation
- ◆ Sails and rig

Sea trial

- ◆ Engine under load - gauges, vibration, exhaust, speed
- ◆ Instruments
- ◆ Other

Tools

- ◆ Plastic hammer
- ◆ Moisture meter
- ◆ Flashlight
- ◆ Hand tools - screwdrivers, wrench
- ◆ Paper towels
- ◆ Electrical testing - conductivity tester, multimeter, outlet tester, adapters, cords

Tools

- ◆ Ladder
- ◆ Lunch

Survey report

- ◆ 15 -20 pages
- ◆ Recommendations
 - Cosmetic
 - Maintenance/repair
 - Priority
- ◆ Summary

Limitations

- ◆ Tools
- ◆ Structure
- ◆ Conditions on day of survey
- ◆ Surveyor's knowledge

Before calling a surveyor

- ◆ Research - online owner's groups, Yachtworld etc. What are common problems and solutions?
- ◆
- ◆ Self survey - love is blind

Call surveyor

- ◆ NAMS or SAMS
- ◆ Experience
- ◆ Availability
- ◆ When report will be ready
- ◆ Can you be present
- ◆ Cost
- ◆ Sample survey

Unofficial, non-exhaustive, somewhat arbitrary top ten list of survey findings

- ◆ 10. Cracked hoses, especially scupper and engine exhaust
- ◆ 9. Oil in bilge
- ◆ 8. Worn strut bearing - if shaft moves enough to make a noise, it is time to replace

- ◆ 7. Inoperable sea cocks
- ◆ 6. Fresh water leaks
- ◆ 5. No breaker at shore power connection
- ◆ 4. Navigation lights out

- ◆ 3. Safety equipment missing or expired
- ◆ 2. Moisture/ delamination in rudder
- ◆ 1. Moisture, cracking, wet core in deck