

## MAHINA EXPEDITIONS DIESEL ENGINES TEST

1. What three manuals should be carried aboard?
2. What are the four most important things a diesel engine needs to run?
3. When is the best time to change the oil in a marine diesel?
4. Name as many things as possible that could cause a marine diesel to overheat.
5. The engine suddenly (not gradually) stops. What caused this, and what damage could have occurred?
6. Coming into a slip, you put the engine in reverse but it over-revs and you hit the dock. What has caused this?
7. Name three ways you know your batteries need to be replaced.
8. What could cause batteries to not charge correctly when the engine is running?
9. Name four types of marine batteries and the advantages and disadvantages of each.
10. What type of batteries are best for extended cruising away from shore power.
11. How frequently should you visually check your engine room when motoring and what should you check for?
12. What is a consistent, recurring problem with Yanmar engines under 75 hp?
13. What could be the reasons for an engine to be losing coolant fluid?
14. What are the symptoms of seawater in engine oil and where could it be coming from? In transmission fluid?
15. What things should be inspected or adjusted annually on a marine diesel?
16. If you're planning an 18-month cruise, what engine supplies and tools should you carry?
17. What is the purpose of an engine log, and how can it save you money?
18. Name the engine gauges.
19. What is important:
  - A. Start up?
  - B. Throttle adjustment?
  - C. Shut down?
20. Fuel tanks. What is important:
  - A. After purchase?
  - B. Each time before adding fuel?
21. Which fuel additive is top rated by Practical Sailor?
22. When should you repower and why not rebuild?
23. Name three advantages to repowering with Beta engines.