



DIESEL

1. Introduction

- a. Principles of the diesel engine

2. The four-stroke cycle

- a. Naturally aspirated engines
- b. Turbocharging
- c. Intercooling / aftercooling

3. The fuel system

- a. The basic system
- b. The tank
- c. The water-separating pre-filter
- d. Fuel lift pump
- e. The engine fine filter
- f. Injection pump
- g. Injectors
- h. Bleeding the system

4. The cooling system

- a. Seawater cooling
- b. Freshwater cooling
- c. Temperature control
- d. The thermostat
- e. The seawater impeller pump

5. The air systems

- a. The airway in
- b. The airway out

6. Engine electrical systems

- a. The basic system
- b. Battery capacity and care
- c. Drive belts
- d. The alternator

7. Spares and tool requirements

- a. Basic spares and tools

8. Importance of winterisation and servicing

- a. Engine lubrication
- b. Transmission lubrication

c. Winterisation and servicing

d. Service schedule

9. Fault finding