

19. Cooling Water System, In-line Engine

19.1

Description

19.1.1 General

The engine is cooled by a closed circuit cooling water system, divided into a high temperature circuit (HT) and a low temperature circuit (LT). The cooling water is cooled in a separate central cooler.

The LT circuit is provided with a temperature control valve, which keeps the temperatures at a load dependent level. Thus the temperature rises at low load and the charge air is heated instead of cooled. The heat for this purpose is mainly gained from the oil system via the oil cooler.

Cooling water system

1. Expansion tank
2. Venting box
3. Alarm switch
4. Alarm switch
5. Manometer
6. Manometer
7. Charge air cooler
8. LT-water pump
9. HT-water pump
10. LT-temperature control valve
11. HT-temperature control valve
12. Heater
13. Pump
14. Central cooler
15. Lube oil cooler

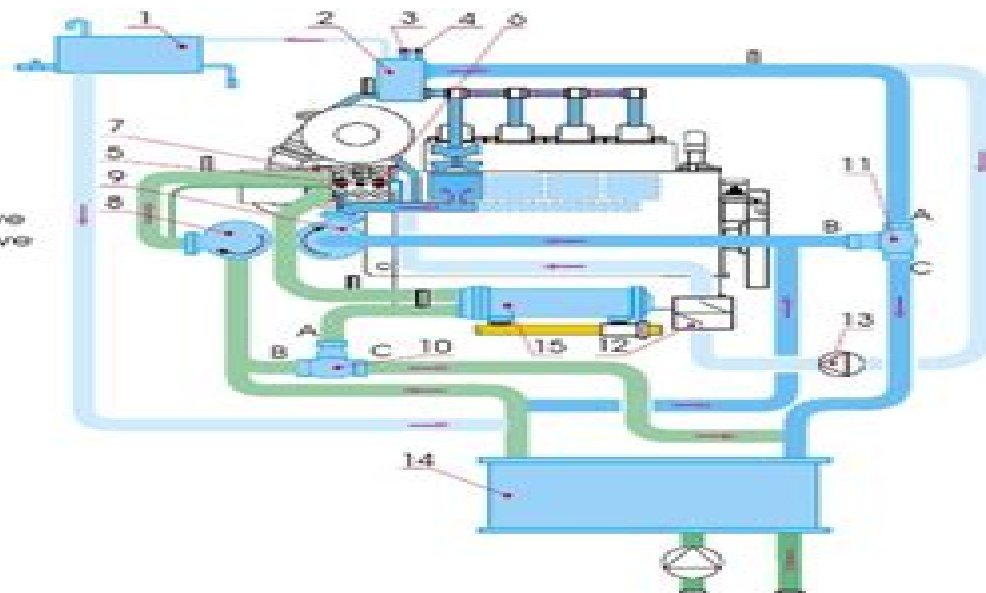


Fig 19-1

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Wartsila Generators Manual

Léo Pomar



Wartsila Generators Manual:

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