# 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

Expansion tank

2. Venting box

Alarm switch

4. Alarm switch

Manometer

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 of cooler

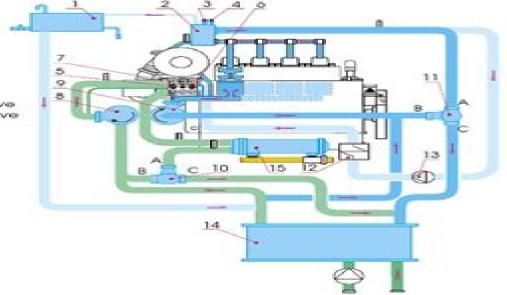


Fig 19-1

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# **Wartsila Generator Control Manual**

**D** Kirk

#### **Wartsila Generator Control Manual:**

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