

TROUBLESHOOTING SCENARIOS	
FORM NO	TR005
SCENARIO NAME	Oil Pressure Lower than alarm limit
SYSTEM NAME	Centreal Cooling System
Max Time	5 min
SYSTEM DESCRIPTION	The central cooling water system is characterised by having only one heat exchanger cooled by seawater, and by the other coolers, including the jacket water cooler, being cooled by central cooling water. In order to prevent too high a scavenge air temperature, the cooling water design temperature in the central cooling water system is normally 36 °C, corresponding to a maximum seawater temperature of 32 °C. Our recommendation of keeping the cooling water inlet temperature to the main engine scavenge air cooler as low as possible also applies to the central cooling system. This means that the temperature control valve in the central cooling water circuit is to be set to minimum 10 °C, whereby the temperature follows the outboard seawater temperature when central cooling water temperature exceeds 10 °C.
Describe the problem	CC Master Cooler Diff. Clogged and CC Master Pump has problem PT8101-A: 0-.33 Mbar, TI:8101-A:50C
Preparation	<ul style="list-style-type: none"> You will hear heavy sound in ER Signal light column for machinery alarm is illuminated Alarm list, COWXX_002,COWXX_003
SCENARIO ALGORITHM	<ol style="list-style-type: none"> BEGIN Heavy Alarm sound and Signal light column for machinery alarm is illuminate Message on ESC MOP-A will appear: alarm messages with red letters Student will have to press ACKNOWLEDGE BUTTON in MOP. The alarm horn will SILENT and light on signal column will go OFF, The letters on message on ESC MOP-A change color to yellow letters Go from Central C. Master Cooler Close inlet and outlet valves of filter Remove cooler Remove cooler element and change for clean one Re-install new cooler element Open inlet and outlet valves of filter Close redundant cooler Go from Central Cooling Master Pump Close inlet and outlet valves of filter Remove pump Remove pump element and change for clean one Re-install new pump element Open inlet and outlet valves of filter Close redundant pump Messages on ESC MOP-A computer panel will DELETE END
QUATIONS	<p>What is CC pump's temperature during operation of main engine?</p> <p>What are CC pump's pressure during operation of main engine?</p> <p>What was exact alarm message?</p>
LEARNING OUTCOME	<p>Can maintain the CC system.</p> <p>Can detect the failure of the pump at CC system.</p> <p>Can detect the malfunction of the cooler at CC system.</p>