

TROUBLESHOOTING SCENARIOS	
FORM NO	TR002
SCENARIO NAME	Oil Filter Change
SYSTEM NAME	Lubricatio System
Max Time	5 min
SYSTEM DESCRIPTION	<p>The lubricating oil is pumped from a bottom tank by means of the main lubricating oil pump to the lubricating oil cooler, a thermostatic valve and, through a fullflow filter, to the engine inlet RU.</p> <p>RU lubricates main bearings, thrust bearing, axial vibration damper, piston cooling, crosshead bear- ings, crankpin bearings. It also supplies oil to the Hydraulic Power Supply unit and to moment com- pensator and torsional vibration damper.</p> <p>From the engine, the oil collects in the oil pan, from where it is drained off to the bottom tank. By class demand, a cofferdam must be placed underneath the lubricating oil tank.</p>
Describe the problem	<p>LO Master Cooler Diff. Clogged</p> <p>TI8112-I : 70 C</p>
Preparation	<ul style="list-style-type: none"> • Get new cooler • Check safety measure
SCENARIO ALGORITHM	<ol style="list-style-type: none"> 1. BEGIN 2. Heavy Alarm sound and Signal light column for machinery alarm is illuminate 3. Message on ESC MOP-A will appear: alarm messages with red letters 4. Student will have to press ACKNOWLEDGE BUTTON in MOP. The alarm horn will SILENT and light on signal column will go OFF, 5. The letters on message on ESC MOP-A change color to yellow letters 6. Go from Lubrication Oil Cooler1 7. Close inlet and outlet valves of filter 8. Remove filter cover bolts and remove cover 9. Remove filter element and change for clean one 10.Re-install new filter element 11.Open inlet and outlet valves of filter 12.Close redundant cooler2 13.Messages on ESC MOP-A computer panel will DELETE 14.END
QUATIONS	<p>What is LO cooler's temperature during operation of main engine?</p> <p>What is LO cooler's pressure during operation of main engine?</p> <p>What is cooler inlet and outlet valve before and after changing the cooler?</p>
LEARNING OUTCOME	<p>Can maintain the LO system.</p> <p>Can detect the failure of the cooler at LO system.</p>