



UK MARINE TRAINING CENTRE (UMTC)

SAI POOJA BUILDING, SHOP NO. 4, PLOT NO. 36, SECTOR - 34. KAMOTHE, NAVI
MUMBAI - 410 209 MAHARASHTRA, INDIA.

EMAIL : umtcindia1234@gmail.com | PH : +91 9673855053, +91 7021406134

Class 2 Oral's Question

Date: 16 Feb 2023

Surveyor: Ian Bell

Candidate: Ali Yakubu Matthais

Time: 1Hr 45 MINS – Online class 2 Orals

1. As a 2nd Engr. On a regular Engine Room Watchkeeping duties, how can you ascertain that your Main engine is operating optimally?
2. He Shared his screen, showing me a typical draw card & asked me to identify what type of an indicator diagram it is & what's it for?
3. He thereafter, took me deep into the draw card diagram, asking me about what engine operational faults are associated with the draw card?
4. He then went properly into what could cause late fuel injection, and later asked of how to correct it.
5. Gradually he took me into fuel injection pump timing, different methods of checking timing, how to know from the witnessing mark if timing it's correct or incorrect & how to correct a wrongly timed pump.
6. Causes of late injection even when timing is found to be correct?
7. What could cause fuel Injection pump wear? Also asked about fuel injector nozzle holes enlargement?
8. What are Catfines & how did they got into the fuel?
9. He then returned back to how fuel injection pressure is developed inside the injector and went further into fuel injector pressure testing on the test bench.
10. 10.- Asked about fuel oil report/Analyses and how to ascertain good quality fuel?
11. Started with cold corrosion, how does it happens, what part of the system does it affects and how it can be controlled.
12. From cold corrosion to Hot Corrosion asking in a similar fashion as in Q11.
13. Your 3rd Engr. has removed the Auxiliary Diesel Generator's piston assembly and its lying down in the workshop & wants you to assist him in its inspection. Talk me through how you will assist him in doing the inspection from top-Bottom.
14. Boiler Water Testing, why do we do that? How frequently?
15. What test do we do? Mention all of the test that you know? What Chemicals are used for dosing?
16. What problems are associated with excessive dosing and under-dosing?
17. Electrical Circuit Diagram of Electric Motor Starter layout was shared from his screen unlabelled, then he took me through it from top to bottom, asking me to label the diagram and was asking me some of the key component's functions.



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18. CO2 System layout was shared again from his screen and he as asked me to talk him through its operational sequence.
19. On his CO2 system was a Non-Return Valve and he was Categorical about why that Non-Return Valve. Honestly it was my first time seeing such valve, somehow- somehow i manoeuvred only telling function of a normal Non-Return Valve and was let off the hook.

UMTC - 9673855053

Shivaji Sir

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